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1.1 A Hibernate Core Module 4.2.6.Final

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/*

* Hibernate, Relational Persistence for Idiomatic Java

*

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 * or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License
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 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
 package org.hibernate.ejb;

```
import java.util.Map;
import javax.persistence.PersistenceContextType;
import javax.persistence.PersistenceException;
import javax.persistence.spi.PersistenceUnitTransactionType;

import org.jboss.logging.Logger;

import org.hibernate.HibernateException;
import org.hibernate.Interceptor;
import org.hibernate.Session;
import org.hibernate.engine.spi.SessionOwner;
import org.hibernate.annotations.common.util.ReflectHelper;
import org.hibernate.ejb.internal.EntityManagerMessageLogger;
import org.hibernate.engine.spi.SessionBuilderImplementor;
import org.hibernate.engine.spi.SessionImplementor;

/**
 * Hibernate implementation of { @link javax.persistence.EntityManager }.
 *
 * @author Gavin King
 */
public class EntityManagerImpl extends AbstractEntityManagerImpl implements SessionOwner {

    public static final EntityManagerMessageLogger LOG =
        Logger.getMessageLogger(EntityManagerMessageLogger.class,
                               EntityManagerImpl.class.getName());

    protected Session session;
    protected boolean open;
```



```

protected boolean discardOnClose;
private Class sessionInterceptorClass;

public EntityManagerImpl(
    EntityManagerFactoryImpl entityManagerFactory,
    PersistenceContextType pcType,
    PersistenceUnitTransactionType transactionType,
    boolean discardOnClose,
    Class sessionInterceptorClass,
    Map properties) {
    super( entityManagerFactory, pcType, transactionType, properties );
    this.open = true;
    this.discardOnClose = discardOnClose;
    Object localSessionInterceptor = null;
    if (properties != null) {
        localSessionInterceptor = properties.get( AvailableSettings.SESSION_INTERCEPTOR );
    }
    if ( localSessionInterceptor != null ) {
        if (localSessionInterceptor instanceof Class) {
            sessionInterceptorClass = (Class) localSessionInterceptor;
        }
        else if (localSessionInterceptor instanceof String) {
            try {
                sessionInterceptorClass =
                    ReflectHelper.className( (String) localSessionInterceptor, EntityManagerImpl.class );
            }
            catch (ClassNotFoundException e) {
                throw new PersistenceException("Unable to instantiate interceptor: " + localSessionInterceptor, e);
            }
        }
        else {
            throw new PersistenceException("Unable to instantiate interceptor: " + localSessionInterceptor);
        }
    }
    this.sessionInterceptorClass = sessionInterceptorClass;
    postInit();
}

@Override
public Session getSession() {
    if ( !open ) {
        throw new IllegalStateException( "EntityManager is closed" );
    }
    return getRawSession();
}

@Override
protected Session getRawSession() {

```

```

if ( session == null ) {
    SessionBuilderImplementor sessionBuilder = getEntityManagerFactory().getSessionFactory().withOptions();
    sessionBuilder.owner( this );
    if (sessionInterceptorClass != null) {
        try {
            Interceptor interceptor = (Interceptor) sessionInterceptorClass.newInstance();
            sessionBuilder.interceptor( interceptor );
        }
        catch (InstantiationException e) {
            throw new PersistenceException("Unable to instantiate session interceptor: " + sessionInterceptorClass, e);
        }
        catch (IllegalAccessException e) {
            throw new PersistenceException("Unable to instantiate session interceptor: " + sessionInterceptorClass, e);
        }
        catch (ClassCastException e) {
            throw new PersistenceException("Session interceptor does not implement Interceptor: " + sessionInterceptorClass,
e);
        }
    }
    sessionBuilder.autoJoinTransactions( getTransactionType() != PersistenceUnitTransactionType.JTA );
    session = sessionBuilder.openSession();
    if ( persistenceContextType == PersistenceContextType.TRANSACTION ) {
        ( (SessionImplementor) session ).setAutoClear( true );
    }
    return session;
}

public void close() {
    checkEntityManagerFactory();
    if ( !open ) {
        throw new IllegalStateException( "EntityManager is closed" );
    }
    if ( discardOnClose || !isTransactionInProgress() ) {
        //close right now
        if ( session != null ) {
            session.close();
        }
    }
    // Otherwise, session auto-close will be enabled by shouldAutoCloseSession().
    open = false;
}

public boolean isOpen() {
    //adjustFlushMode(); //don't adjust, can't be done on closed EM
    checkEntityManagerFactory();
    try {
        if ( open ) {

```

```

    getSession().isOpen(); //to force enlistment in tx
    }
    return open;
    }
    catch (HibernateException he) {
        throwPersistenceException( he );
        return false;
    }
    }

@Override
public boolean shouldAutoCloseSession() {
    return !isOpen();
}

private void checkEntityManagerFactory() {
    if (! getEntityManagerFactory().isOpen()) {
        open = false;
    }
}
}
}
/*
* Hibernate, Relational Persistence for Idiomatic Java
*
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* along with this distribution; if not, write to:
* Free Software Foundation, Inc.
* 51 Franklin Street, Fifth Floor
* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb;

import java.util.Collection;
import java.util.HashMap;

```

```

import java.util.Map;
import java.util.Set;
import javax.persistence.CacheRetrieveMode;
import javax.persistence.CacheStoreMode;
import javax.persistence.FlushModeType;
import javax.persistence.Parameter;
import javax.persistence.TransactionRequiredException;
import javax.persistence.TypedQuery;

import org.jboss.logging.Logger;

import org.hibernate.CacheMode;
import org.hibernate.FlushMode;
import org.hibernate.HibernateException;
import org.hibernate.LockMode;
import org.hibernate.TypeMismatchException;
import org.hibernate.ejb.internal.EntityManagerMessageLogger;
import org.hibernate.ejb.util.CacheModeHelper;
import org.hibernate.ejb.util.ConfigurationHelper;
import org.hibernate.ejb.util.LockModeTypeHelper;
import org.hibernate.hql.internal.QueryExecutionRequestException;

import static org.hibernate.ejb.QueryHints.HINT_CACHEABLE;
import static org.hibernate.ejb.QueryHints.HINT_CACHE_MODE;
import static org.hibernate.ejb.QueryHints.HINT_CACHE_REGION;
import static org.hibernate.ejb.QueryHints.HINT_COMMENT;
import static org.hibernate.ejb.QueryHints.HINT_FETCH_SIZE;
import static org.hibernate.ejb.QueryHints.HINT_FLUSH_MODE;
import static org.hibernate.ejb.QueryHints.HINT_READONLY;
import static org.hibernate.ejb.QueryHints.HINT_TIMEOUT;
import static org.hibernate.ejb.QueryHints.SPEC_HINT_TIMEOUT;

/**
 * Intended as a base class providing convenience in implementing both { @link javax.persistence.Query } and
 * { @link javax.persistence.TypedQuery }.
 * <p/>
 * IMPL NOTE : This issue, and the reason for this distinction, is that criteria and hl.sql queries share no
 * commonality currently in Hibernate internals.
 *
 * @author Steve Ebersole
 */
public abstract class AbstractQueryImpl<X> implements TypedQuery<X> {

    private static final EntityManagerMessageLogger LOG =
        Logger.getMessageLogger(EntityManagerMessageLogger.class,
            AbstractQueryImpl.class.getName());

    private final HibernateEntityManagerImplementor entityManager;

```

```

public AbstractQueryImpl(HibernateEntityManagerImplementor entityManager) {
    this.entityManager = entityManager;
}

protected HibernateEntityManagerImplementor getEntityManager() {
    return entityManager;
}

/**
 * Actually execute the update; all pre-requisites have been checked.
 *
 * @return The number of "affected rows".
 */
protected abstract int internalExecuteUpdate();

@Override
@SuppressWarnings({ "ThrowableInstanceNeverThrown" })
public int executeUpdate() {
    try {
        if ( ! entityManager.isTransactionInProgress() ) {
            entityManager.throwPersistenceException( new TransactionRequiredException( "Executing an update/delete query"
            ) );
            return 0;
        }
        return internalExecuteUpdate();
    }
    catch ( QueryExecutionRequestException he ) {
        throw new IllegalStateException(he);
    }
    catch( TypeMismatchException e ) {
        throw new IllegalArgumentException(e);
    }
    catch ( HibernateException he ) {
        entityManager.throwPersistenceException( he );
        return 0;
    }
}

private int maxResults = -1;

/**
 * Apply the given max results value.
 *
 * @param maxResults The specified max results
 */
protected abstract void applyMaxResults(int maxResults);

```

```

@Override
public TypedQuery<X> setMaxResults(int maxResult) {
    if ( maxResult < 0 ) {
        throw new IllegalArgumentException(
            "Negative value (" + maxResult + ") passed to setMaxResults"
        );
    }
    this.maxResults = maxResult;
    applyMaxResults( maxResult );
    return this;
}

```

```

public int getSpecifiedMaxResults() {
    return maxResults;
}

```

```

@Override
public int getMaxResults() {
    return maxResults == -1
        ? Integer.MAX_VALUE // stupid spec... MAX_VALUE??
        : maxResults;
}

```

```

private int firstResult;

```

```

/**
 * Apply the given first-result value.
 *
 * @param firstResult The specified first-result value.
 */
protected abstract void applyFirstResult(int firstResult);

```

```

@Override
public TypedQuery<X> setFirstResult(int firstResult) {
    if ( firstResult < 0 ) {
        throw new IllegalArgumentException(
            "Negative value (" + firstResult + ") passed to setFirstResult"
        );
    }
    this.firstResult = firstResult;
    applyFirstResult( firstResult );
    return this;
}

```

```

@Override
public int getFirstResult() {
    return firstResult;
}

```

```

private Map<String, Object> hints;

@Override
public Map<String, Object> getHints() {
    return hints;
}

protected abstract void applyTimeout(int timeout);

protected abstract void applyLockTimeout(int timeout);

protected abstract void applyComment(String comment);

protected abstract void applyFetchSize(int fetchSize);

protected abstract void applyCacheable(boolean isCacheable);

protected abstract void applyCacheRegion(String regionName);

protected abstract void applyReadOnly(boolean isReadOnly);

protected abstract void applyCacheMode(CacheMode cacheMode);

protected abstract void applyFlushMode(FlushMode flushMode);

protected abstract boolean canApplyLockModes();

protected abstract void applyAliasSpecificLockMode(String alias, LockMode lockMode);

@Override
@SuppressWarnings( {"deprecation"})
public TypedQuery<X> setHint(String hintName, Object value) {
    boolean skipped = false;
    try {
        if ( HINT_TIMEOUT.equals( hintName ) ) {
            applyTimeout( ConfigurationHelper.getInteger( value ) );
        }
        else if ( SPEC_HINT_TIMEOUT.equals( hintName ) ) {
            // convert milliseconds to seconds
            int timeout = (int)Math.round(ConfigurationHelper.getInteger( value ).doubleValue() / 1000.0 );
            applyTimeout( timeout );
        }
        else if ( AvailableSettings.LOCK_TIMEOUT.equals( hintName ) ) {
            applyLockTimeout( ConfigurationHelper.getInteger( value ) );
        }
        else if ( HINT_COMMENT.equals( hintName ) ) {
            applyComment( (String) value );
        }
    }
}

```

```

}
else if ( HINT_FETCH_SIZE.equals( hintName ) ) {
    applyFetchSize( ConfigurationHelper.getInteger( value ) );
}
else if ( HINT_CACHEABLE.equals( hintName ) ) {
    applyCacheable( ConfigurationHelper.getBoolean( value ) );
}
else if ( HINT_CACHE_REGION.equals( hintName ) ) {
    applyCacheRegion( (String) value );
}
else if ( HINT_READONLY.equals( hintName ) ) {
    applyReadOnly( ConfigurationHelper.getBoolean( value ) );
}
else if ( HINT_CACHE_MODE.equals( hintName ) ) {
    applyCacheMode( ConfigurationHelper.getCacheMode( value ) );
}
else if ( HINT_FLUSH_MODE.equals( hintName ) ) {
    applyFlushMode( ConfigurationHelper.getFlushMode( value ) );
}
else if ( AvailableSettings.SHARED_CACHE_RETRIEVE_MODE.equals( hintName ) ) {
    final CacheRetrieveMode retrieveMode = (CacheRetrieveMode) value;

    CacheStoreMode storeMode = hints != null
        ? (CacheStoreMode) hints.get( AvailableSettings.SHARED_CACHE_STORE_MODE )
        : null;
    if ( storeMode == null ) {
        storeMode = (CacheStoreMode) entityManager.getProperties()
            .get( AvailableSettings.SHARED_CACHE_STORE_MODE );
    }
    applyCacheMode(
        CacheModeHelper.interpretCacheMode( storeMode, retrieveMode )
    );
}
else if ( AvailableSettings.SHARED_CACHE_STORE_MODE.equals( hintName ) ) {
    final CacheStoreMode storeMode = (CacheStoreMode) value;

    CacheRetrieveMode retrieveMode = hints != null
        ? (CacheRetrieveMode) hints.get( AvailableSettings.SHARED_CACHE_RETRIEVE_MODE )
        : null;
    if ( retrieveMode == null ) {
        retrieveMode = (CacheRetrieveMode) entityManager.getProperties()
            .get( AvailableSettings.SHARED_CACHE_RETRIEVE_MODE );
    }
    applyCacheMode(
        CacheModeHelper.interpretCacheMode( storeMode, retrieveMode )
    );
}
else if ( hintName.startsWith( AvailableSettings.ALIAS_SPECIFIC_LOCK_MODE ) ) {

```



```

if ( ! canApplyLockModes() ) {
    skipped = true;
}
else {
    // extract the alias
    final String alias = hintName.substring( AvailableSettings.ALIAS_SPECIFIC_LOCK_MODE.length() + 1 );
    // determine the LockMode
    try {
        final LockMode lockMode = LockModeTypeHelper.interpretLockMode( value );
        applyAliasSpecificLockMode( alias, lockMode );
    }
    catch ( Exception e ) {
        LOG.unableToDetermineLockModeValue(hintName, value);
        skipped = true;
    }
}
else {
    skipped = true;
    LOG.ignoringUnrecognizedQueryHint(hintName);
}
catch ( ClassCastException e ) {
    throw new IllegalArgumentException( "Value for hint" );
}

if ( !skipped ) {
    if ( hints == null ) {
        hints = new HashMap<String, Object>();
    }
    hints.put( hintName, value );
}

return this;
}

@SuppressWarnings( {"UnusedDeclaration"})
public Set<String> getSupportedHints() {
    return QueryHints.getDefinedHints();
}

@Override
public abstract TypedQuery<X> setLockMode(javax.persistence.LockModeType lockModeType);

@Override
public abstract javax.persistence.LockModeType getLockMode();

private FlushModeType jpaFlushMode;

```

```

@Override
public TypedQuery<X> setFlushMode(FlushModeType jpaFlushMode) {
    this.jpaFlushMode = jpaFlushMode;
    // TODO : treat as hint?
    if ( jpaFlushMode == FlushModeType.AUTO ) {
        applyFlushMode( FlushMode.AUTO );
    }
    else if ( jpaFlushMode == FlushModeType.COMMIT ) {
        applyFlushMode( FlushMode.COMMIT );
    }
    return this;
}

@SuppressWarnings( {"UnusedDeclaration"})
protected FlushModeType getSpecifiedFlushMode() {
    return jpaFlushMode;
}

@Override
public FlushModeType getFlushMode() {
    return jpaFlushMode != null
        ? jpaFlushMode
        : entityManager.getFlushMode();
}

private Map parameterBindings;

@SuppressWarnings( {"unchecked"})
protected void registerParameterBinding(Parameter parameter, Object value) {
    if ( parameter == null ) {
        throw new IllegalArgumentException( "parameter cannot be null" );
    }

    validateParameterBinding( parameter, value );

    if ( parameterBindings == null ) {
        parameterBindings = new HashMap();
    }
    parameterBindings.put( parameter, value );
}

private void validateParameterBinding(Parameter parameter, Object value) {
    if ( value == null || parameter.getParameterType() == null ) {
        // nothing we can check
        return;
    }
}

```

```

if ( Collection.class.isInstance( value )
    && ! Collection.class.isAssignableFrom( parameter.getParameterType() ) ) {
    // we have a collection passed in where we are expecting a non-collection.
    // NOTE : this can happen in Hibernate's notion of "parameter list" binding
    // NOTE2 : the case of a collection value and an expected collection (if that can even happen)
    // will fall through to the main check.
    validateCollectionValuedParameterMultiBinding( parameter, (Collection) value );
}
else if ( value.getClass().isArray() ) {
    validateArrayValuedParameterBinding( parameter, value );
}
else {
    if ( ! parameter.getParameterType().isInstance( value ) ) {
        throw new IllegalArgumentException(
            String.format(
                "Parameter value [%s] did not match expected type [%s]",
                value,
                parameter.getParameterType().getName()
            )
        );
    }
}
}

private void validateCollectionValuedParameterMultiBinding(Parameter parameter, Collection value) {
    // validate the elements...
    for ( Object element : value ) {
        if ( ! parameter.getParameterType().isInstance( element ) ) {
            throw new IllegalArgumentException(
                String.format(
                    "Parameter value element [%s] did not match expected type [%s]",
                    element,
                    parameter.getParameterType().getName()
                )
            );
        }
    }
}

private void validateArrayValuedParameterBinding(Parameter parameter, Object value) {
    if ( ! parameter.getParameterType().isArray() ) {
        throw new IllegalArgumentException(
            String.format(
                "Encountered array-valued parameter binding, but was expecting [%s]",
                parameter.getParameterType().getName()
            )
        );
    }
}

```

```

if ( value.getClass().getComponentType().isPrimitive() ) {
    // we have a primitive array. we validate that the actual array has the component type (type of elements)
    // we expect based on the component type of the parameter specification
    if ( ! parameter.getParameterType().getComponentType().isAssignableFrom( value.getClass().getComponentType()
)) {
        throw new IllegalArgumentException(
            String.format(
                "Primitive array-valued parameter bind value type [%s] did not match expected type [%s]",
                value.getClass().getComponentType().getName(),
                parameter.getParameterType().getName()
            )
        );
    }
}
else {
    // we have an object array. Here we loop over the array and physically check each element against
    // the type we expect based on the component type of the parameter specification
    final Object[] array = (Object[]) value;
    for ( Object element : array ) {
        if ( ! parameter.getParameterType().getComponentType().isInstance( element ) ) {
            throw new IllegalArgumentException(
                String.format(
                    "Array-valued parameter value element [%s] did not match expected type [%s]",
                    element,
                    parameter.getParameterType().getName()
                )
            );
        }
    }
}
}

```

@Override

```

public boolean isBound(Parameter<?> param) {
    return parameterBindings != null && parameterBindings.containsKey( param );
}

```

@Override

```

@SuppressWarnings({ "unchecked" })
public <T> T getParameterValue(Parameter<T> param) {
    if ( parameterBindings == null ) {
        throw new IllegalStateException( "No parameters have been bound" );
    }
    try {
        T value = (T) parameterBindings.get( param );
        if ( value == null ) {
            throw new IllegalStateException( "Parameter has not been bound" );
        }
    }
}

```

```

    }
    return value;
}
catch ( ClassCastException cce ) {
    throw new IllegalStateException( "Encountered a parameter value type exception" );
}
}

@Override
public Object getParameterValue(String name) {
    return getParameterValue( getParameter( name ) );
}

@Override
public Object getParameterValue(int position) {
    return getParameterValue( getParameter( position ) );
}
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 * statements applied by the authors. All third-party contributions are
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 * for more details.
 *
 * You should have received a copy of the GNU Lesser General Public License
 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.Serializable;
import java.util.ArrayList;

```

```

import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import javax.persistence.CacheRetrieveMode;
import javax.persistence.CacheStoreMode;
import javax.persistence.EntityExistsException;
import javax.persistence.EntityManager;
import javax.persistence.EntityNotFoundException;
import javax.persistence.EntityTransaction;
import javax.persistence.FlushModeType;
import javax.persistence.LockModeType;
import javax.persistence.LockTimeoutException;
import javax.persistence.NoResultException;
import javax.persistence.NonUniqueResultException;
import javax.persistence.OptimisticLockException;
import javax.persistence.PersistenceContextType;
import javax.persistence.PersistenceException;
import javax.persistence.PessimisticLockException;
import javax.persistence.PessimisticLockScope;
import javax.persistence.Query;
import javax.persistence.QueryTimeoutException;
import javax.persistence.TransactionRequiredException;
import javax.persistence.Tuple;
import javax.persistence.TupleElement;
import javax.persistence.TypedQuery;
import javax.persistence.criteria.CriteriaBuilder;
import javax.persistence.criteria.CriteriaQuery;
import javax.persistence.criteria.Selection;
import javax.persistence.metamodel.Metamodel;
import javax.persistence.spi.PersistenceUnitTransactionType;
import javax.transaction.Status;
import javax.transaction.SystemException;
import javax.transaction.TransactionManager;

import org.jboss.logging.Logger;

import org.hibernate.AssertionFailure;
import org.hibernate.CacheMode;
import org.hibernate.FlushMode;
import org.hibernate.HibernateException;
import org.hibernate.LockMode;
import org.hibernate.LockOptions;
import org.hibernate.MappingException;
import org.hibernate.ObjectDeletedException;
import org.hibernate.ObjectNotFoundException;
import org.hibernate.QueryException;
import org.hibernate.SQLQuery;

```

```

import org.hibernate.Session;
import org.hibernate.StaleObjectStateException;
import org.hibernate.StaleStateException;
import org.hibernate.TransientObjectException;
import org.hibernate.TypeMismatchException;
import org.hibernate.UnresolvableObjectException;
import org.hibernate.cfg.Environment;
import org.hibernate.dialect.lock.LockingStrategyException;
import org.hibernate.dialect.lock.OptimisticEntityLockException;
import org.hibernate.dialect.lock.PessimisticEntityLockException;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.ValueHandlerFactory;
import org.hibernate.ejb.criteria.expression.CompoundSelectionImpl;
import org.hibernate.ejb.internal.EntityManagerMessageLogger;
import org.hibernate.ejb.util.CacheModeHelper;
import org.hibernate.ejb.util.ConfigurationHelper;
import org.hibernate.ejb.util.LockModeTypeHelper;
import org.hibernate.engine.ResultSetMappingDefinition;
import org.hibernate.engine.query.spi.HQLQueryPlan;
import org.hibernate.engine.query.spi.sql.NativeSQLQueryReturn;
import org.hibernate.engine.query.spi.sql.NativeSQLQueryRootReturn;
import org.hibernate.engine.spi.NamedSQLQueryDefinition;
import org.hibernate.engine.spi.SessionFactoryImplementor;
import org.hibernate.engine.spi.SessionImplementor;
import org.hibernate.engine.transaction.internal.jta.JtaStatusHelper;
import org.hibernate.engine.transaction.spi.JoinStatus;
import org.hibernate.engine.transaction.spi.TransactionCoordinator;
import org.hibernate.engine.transaction.spi.TransactionImplementor;
import org.hibernate.engine.transaction.synchronization.spi.AfterCompletionAction;
import org.hibernate.engine.transaction.synchronization.spi.ExceptionMapper;
import org.hibernate.engine.transaction.synchronization.spi.ManagedFlushChecker;
import org.hibernate.engine.transaction.synchronization.spi.SynchronizationCallbackCoordinator;
import org.hibernate.internal.util.ReflectHelper;
import org.hibernate.internal.util.collections.CollectionHelper;
import org.hibernate.proxy.HibernateProxy;
import org.hibernate.service.jta.platform.spi.JtaPlatform;
import org.hibernate.transform.BasicTransformerAdapter;
import org.hibernate.type.Type;

/**
 * @author <a href="mailto:gavin@hibernate.org">Gavin King</a>
 * @author Emmanuel Bernard
 * @author Steve Ebersole
 * @author Hardy Ferentschik
 */
@SuppressWarnings("unchecked")
public abstract class AbstractEntityManagerImpl implements HibernateEntityManagerImplementor, Serializable {

```

```

private static final long serialVersionUID = 78818181L;

private static final EntityManagerMessageLogger LOG =
Logger.getMessageLogger(EntityManagerMessageLogger.class,
                        AbstractEntityManagerImpl.class.getName());

private static final List<String> entityManagerSpecificProperties = new ArrayList<String>();

static {
entityManagerSpecificProperties.add( AvailableSettings.LOCK_SCOPE );
entityManagerSpecificProperties.add( AvailableSettings.LOCK_TIMEOUT );
entityManagerSpecificProperties.add( AvailableSettings.FLUSH_MODE );
entityManagerSpecificProperties.add( AvailableSettings.SHARED_CACHE_RETRIEVE_MODE );
entityManagerSpecificProperties.add( AvailableSettings.SHARED_CACHE_STORE_MODE );
entityManagerSpecificProperties.add( QueryHints.SPEC_HINT_TIMEOUT );
}

private EntityManagerFactoryImpl entityManagerFactory;
protected transient TransactionImpl tx = new TransactionImpl( this );
protected PersistenceContextType persistenceContextType;
private PersistenceUnitTransactionType transactionType;
private Map<String, Object> properties;
private LockOptions lockOptions;

protected AbstractEntityManagerImpl(
EntityManagerFactoryImpl entityManagerFactory,
PersistenceContextType type,
PersistenceUnitTransactionType transactionType,
Map properties) {
this.entityManagerFactory = entityManagerFactory;
this.persistenceContextType = type;
this.transactionType = transactionType;

this.lockOptions = new LockOptions();
this.properties = new HashMap<String, Object>();
for ( String key : entityManagerSpecificProperties ) {
if ( entityManagerFactory.getProperties().containsKey( key ) ) {
this.properties.put( key, entityManagerFactory.getProperties().get( key ) );
}
if ( properties != null && properties.containsKey( key ) ) {
this.properties.put( key, properties.get( key ) );
}
}
}

public PersistenceUnitTransactionType getTransactionType() {
return transactionType;
}

```



```

protected void postInit() {
    //register in Sync if needed
    if ( PersistenceUnitTransactionType.JTA.equals( transactionType ) ) {
        joinTransaction( false );
    }

    setDefaultProperties();
    applyProperties();
}

private void applyProperties() {
    getSession().setFlushMode( ConfigurationHelper.getFlushMode( properties.get( AvailableSettings.FLUSH_MODE
    ) ) );
    setLockOptions( this.properties, this.lockOptions );
    getSession().setCacheMode(
        CacheModeHelper.interpretCacheMode(
            currentCacheStoreMode(),
            currentCacheRetrieveMode()
        )
    );
}

private Query applyProperties(Query query) {
    if ( lockOptions.getLockMode() != LockMode.NONE ) {
        query.setLockMode( getLockMode(lockOptions.getLockMode()));
    }
    Object queryTimeout;
    if ( (queryTimeout = getProperties().get(QueryHints.SPEC_HINT_TIMEOUT)) != null ) {
        query.setHint ( QueryHints.SPEC_HINT_TIMEOUT, queryTimeout );
    }
    Object lockTimeout;
    if( (lockTimeout = getProperties().get( AvailableSettings.LOCK_TIMEOUT ))!=null){
        query.setHint( AvailableSettings.LOCK_TIMEOUT, lockTimeout );
    }
    return query;
}

private CacheRetrieveMode currentCacheRetrieveMode() {
    return determineCacheRetrieveMode( properties );
}

private CacheRetrieveMode determineCacheRetrieveMode(Map<String, Object> settings) {
    return ( CacheRetrieveMode ) settings.get( AvailableSettings.SHARED_CACHE_RETRIEVE_MODE );
}

private CacheStoreMode currentCacheStoreMode() {
    return determineCacheStoreMode( properties );
}

```

```

}

private CacheStoreMode determineCacheStoreMode(Map<String, Object> settings) {
    return ( CacheStoreMode ) properties.get( AvailableSettings.SHARED_CACHE_STORE_MODE );
}

private void setLockOptions(Map<String, Object> props, LockOptions options) {
    Object lockScope = props.get( AvailableSettings.LOCK_SCOPE );
    if ( lockScope instanceof String && PessimisticLockScope.valueOf( ( String ) lockScope ) ==
PessimisticLockScope.EXTENDED ) {
        options.setScope( true );
    }
    else if ( lockScope instanceof PessimisticLockScope ) {
        boolean extended = PessimisticLockScope.EXTENDED.equals( lockScope );
        options.setScope( extended );
    }
    else if ( lockScope != null ) {
        throw new PersistenceException( "Unable to parse " + AvailableSettings.LOCK_SCOPE + ": " + lockScope );
    }

    Object lockTimeout = props.get( AvailableSettings.LOCK_TIMEOUT );
    int timeout = 0;
    boolean timeoutSet = false;
    if ( lockTimeout instanceof String ) {
        timeout = Integer.parseInt( ( String ) lockTimeout );
        timeoutSet = true;
    }
    else if ( lockTimeout instanceof Number ) {
        timeout = ( (Number) lockTimeout ).intValue();
        timeoutSet = true;
    }
    else if ( lockTimeout != null ) {
        throw new PersistenceException( "Unable to parse " + AvailableSettings.LOCK_TIMEOUT + ": " + lockTimeout );
    }
    if ( timeoutSet ) {
        if ( timeout < 0 ) {
            options.setTimeOut( LockOptions.WAIT_FOREVER );
        }
        else if ( timeout == 0 ) {
            options.setTimeOut( LockOptions.NO_WAIT );
        }
        else {
            options.setTimeOut( timeout );
        }
    }
}

/**

```

```

* Sets the default property values for the properties the entity manager supports and which are not already explicitly
* set.
*/
private void setDefaultProperties() {
    if ( properties.get( AvailableSettings.FLUSH_MODE ) == null ) {
        properties.put( AvailableSettings.FLUSH_MODE, getSession().getFlushMode().toString() );
    }
    if ( properties.get( AvailableSettings.LOCK_SCOPE ) == null ) {
        this.properties.put( AvailableSettings.LOCK_SCOPE, PessimisticLockScope.EXTENDED.name() );
    }
    if ( properties.get( AvailableSettings.LOCK_TIMEOUT ) == null ) {
        properties.put( AvailableSettings.LOCK_TIMEOUT, LockOptions.WAIT_FOREVER );
    }
    if ( properties.get( AvailableSettings.SHARED_CACHE_RETRIEVE_MODE ) == null ) {
        properties.put( AvailableSettings.SHARED_CACHE_RETRIEVE_MODE,
CacheModeHelper.DEFAULT_RETRIEVE_MODE );
    }
    if ( properties.get( AvailableSettings.SHARED_CACHE_STORE_MODE ) == null ) {
        properties.put( AvailableSettings.SHARED_CACHE_STORE_MODE,
CacheModeHelper.DEFAULT_STORE_MODE );
    }
}

public Query createQuery(String jpaqlString) {
    try {
        return applyProperties( new QueryImpl<Object>( getSession().createQuery( jpaqlString ), this ) );
    }
    catch ( HibernateException he ) {
        throw convert( he );
    }
}

public <T> TypedQuery<T> createQuery(String jpaqlString, Class<T> resultClass) {
    try {
        // do the translation
        org.hibernate.Query hqlQuery = getSession().createQuery( jpaqlString );

        resultClassChecking( resultClass, hqlQuery );

        // finally, build/return the query instance
        return new QueryImpl<T>( hqlQuery, this );
    }
    catch ( HibernateException he ) {
        throw convert( he );
    }
}

public static class TupleBuilderTransformer extends BasicTransformerAdapter {

```

```

private List<TupleElement<?>> tupleElements;
private Map<String,HqITupleElementImpl> tupleElementsByAlias;

public TupleBuilderTransformer(org.hibernate.Query hqlQuery) {
    final Type[] resultTypes = hqlQuery.getReturnTypes();
    final int tupleSize = resultTypes.length;

    this(tupleElements = CollectionHelper.arrayList( tupleSize );

    final String[] aliases = hqlQuery.getReturnAliases();
    final boolean hasAliases = aliases != null && aliases.length > 0;
    this(tupleElementsByAlias = hasAliases
        ? CollectionHelper.<String, HqITupleElementImpl>mapOfSize( tupleSize )
        : Collections.<String, HqITupleElementImpl>emptyMap();

    for ( int i = 0; i < tupleSize; i++ ) {
        final HqITupleElementImpl tupleElement = new HqITupleElementImpl(
            i,
            aliases == null ? null : aliases[i],
            resultTypes[i]
        );
        tupleElements.add( tupleElement );
        if ( hasAliases ) {
            final String alias = aliases[i];
            if ( alias != null ) {
                tupleElementsByAlias.put( alias, tupleElement );
            }
        }
    }
}

@Override
public Object transformTuple(Object[] tuple, String[] aliases) {
    if ( tuple.length != tupleElements.size() ) {
        throw new IllegalArgumentException(
            "Size mismatch between tuple result [" + tuple.length + "] and expected tuple elements [" +
            tupleElements.size() + "]"
        );
    }
    return new HqITupleImpl( tuple );
}

public static class HqITupleElementImpl<X> implements TupleElement<X> {
    private final int position;
    private final String alias;
    private final Type hibernateType;

    public HqITupleElementImpl(int position, String alias, Type hibernateType) {

```

```
this.position = position;
this.alias = alias;
this.hibernateType = hibernateType;
}
```

```
@Override
public Class getJavaType() {
    return hibernateType.getReturnedClass();
}
```

```
@Override
public String getAlias() {
    return alias;
}
```

```
public int getPosition() {
    return position;
}
```

```
public Type getHibernateType() {
    return hibernateType;
}
}
```

```
public class HqlTupleImpl implements Tuple {
    private Object[] tuple;
```

```
public HqlTupleImpl(Object[] tuple) {
    this.tuple = tuple;
}
```

```
@Override
public <X> X get(String alias, Class<X> type) {
    return (X) get( alias );
}
```

```
@Override
public Object get(String alias) {
    HqlTupleElementImpl tupleElement = tupleElementsByAlias.get( alias );
    if ( tupleElement == null ) {
        throw new IllegalArgumentException( "Unknown alias [" + alias + "]" );
    }
    return tuple[ tupleElement.getPosition() ];
}
```

```
@Override
public <X> X get(int i, Class<X> type) {
    return (X) get( i );
}
```

```

}

@Override
public Object get(int i) {
    if ( i < 0 ) {
        throw new IllegalArgumentException( "requested tuple index must be greater than zero" );
    }
    if ( i > tuple.length ) {
        throw new IllegalArgumentException( "requested tuple index exceeds actual tuple size" );
    }
    return tuple[i];
}

@Override
public Object[] toArray() {
    // todo : make a copy?
    return tuple;
}

@Override
public List<TupleElement<?>> getElements() {
    return tupleElements;
}

@Override
public <X> X get(TupleElement<X> tupleElement) {
    if ( HqlTupleElementImpl.class.isInstance( tupleElement ) ) {
        return get( ( HqlTupleElementImpl ) tupleElement ).getPosition(), tupleElement.getJavaType() );
    }
    else {
        return get( tupleElement.getAlias(), tupleElement.getJavaType() );
    }
}

public <T> TypedQuery<T> createQuery(
    String jpaqlString,
    Class<T> resultClass,
    Selection selection,
    Options options) {
    try {
        org.hibernate.Query hqlQuery = getSession().createQuery( jpaqlString );

        if ( options.getValueHandlers() == null ) {
            options.setResultMetadataValidator().validate( hqlQuery.getReturnTypes() );
        }
    }
}

```

```

// determine if we need a result transformer
List tupleElements = Tuple.class.equals( resultClass )
? ( ( CompoundSelectionImpl<Tuple> ) selection ).getCompoundSelectionItems()
: null;
if ( options.getValueHandlers() != null || tupleElements != null ) {
    hqlQuery.setResultTransformer(
        new CriteriaQueryTransformer( options.getValueHandlers(), tupleElements )
    );
}
return new QueryImpl<T>( hqlQuery, this, options.getNamedParameterExplicitTypes() );
}
catch ( HibernateException he ) {
    throw convert( he );
}
}

private static class CriteriaQueryTransformer extends BasicTransformerAdapter {
    private final List<ValueHandlerFactory.ValueHandler> valueHandlers;
    private final List tupleElements;

    private CriteriaQueryTransformer(List<ValueHandlerFactory.ValueHandler> valueHandlers, List tupleElements) {
        // todo : should these 2 sizes match *always*?
        this.valueHandlers = valueHandlers;
        this.tupleElements = tupleElements;
    }

    @Override
    public Object transformTuple(Object[] tuple, String[] aliases) {
        final Object[] valueHandlerResult;
        if ( valueHandlers == null ) {
            valueHandlerResult = tuple;
        }
        else {
            valueHandlerResult = new Object[tuple.length];
            for ( int i = 0; i < tuple.length; i++ ) {
                ValueHandlerFactory.ValueHandler valueHandler = valueHandlers.get( i );
                valueHandlerResult[i] = valueHandler == null
                    ? tuple[i]
                    : valueHandler.convert( tuple[i] );
            }
        }

        return tupleElements == null
            ? valueHandlerResult.length == 1 ? valueHandlerResult[0] : valueHandlerResult
            : new TupleImpl( tuple );
    }
}

```

```

private class TupleImpl implements Tuple {
    private final Object[] tuples;

    private TupleImpl(Object[] tuples) {
        if ( tuples.length != tupleElements.size() ) {
            throw new IllegalArgumentException(
                "Size mismatch between tuple result [" + tuples.length
                + "] and expected tuple elements [" + tupleElements.size() + "]"
            );
        }
        this.tuples = tuples;
    }

    public <X> X get(TupleElement<X> tupleElement) {
        int index = tupleElements.indexOf( tupleElement );
        if ( index < 0 ) {
            throw new IllegalArgumentException(
                "Requested tuple element did not correspond to element in the result tuple"
            );
        }
        // index should be "in range" by nature of size check in ctor
        return ( X ) tuples[index];
    }

    public Object get(String alias) {
        int index = -1;
        if ( alias != null ) {
            alias = alias.trim();
            if ( alias.length() > 0 ) {
                int i = 0;
                for ( TupleElement selection : ( List<TupleElement> ) tupleElements ) {
                    if ( alias.equals( selection.getAlias() ) ) {
                        index = i;
                        break;
                    }
                    i++;
                }
            }
        }
        if ( index < 0 ) {
            throw new IllegalArgumentException(
                "Given alias [" + alias + "] did not correspond to an element in the result tuple"
            );
        }
        // index should be "in range" by nature of size check in ctor
        return tuples[index];
    }
}

```



```

public <X> X get(String alias, Class<X> type) {
    return ( X ) get( alias );
}

public Object get(int i) {
    if ( i >= tuples.length ) {
        throw new IllegalArgumentException(
            "Given index [" + i + "] was outside the range of result tuple size [" + tuples.length + "]"
        );
    }
    return tuples[i];
}

public <X> X get(int i, Class<X> type) {
    return ( X ) get( i );
}

public Object[] toArray() {
    return tuples;
}

public List<TupleElement<?>> getElements() {
    return tupleElements;
}
}
}

private CriteriaQueryCompiler criteriaQueryCompiler;

public <T> TypedQuery<T> createQuery(CriteriaQuery<T> criteriaQuery) {
    if ( criteriaQueryCompiler == null ) {
        criteriaQueryCompiler = new CriteriaQueryCompiler( this );
    }
    return criteriaQueryCompiler.compile( criteriaQuery );
}

public Query createNamedQuery(String name) {
    try {
        org.hibernate.Query namedQuery = getSession().getNamedQuery( name );
        try {
            return new QueryImpl( namedQuery, this );
        }
        catch ( HibernateException he ) {
            throw convert( he );
        }
    }
    catch ( MappingException e ) {
        throw new IllegalArgumentException( "Named query not found: " + name );
    }
}

```

```

}
}

public <T> TypedQuery<T> createNamedQuery(String name, Class<T> resultClass) {
    try {
        /*
         * Get the named query.
         * If the named query is a SQL query, get the expected returned type from the query definition
         * or its associated result set mapping
         * If the named query is a HQL query, use getReturnType()
         */
        org.hibernate.Query namedQuery = getSession().getNamedQuery( name );
        //TODO clean this up to avoid downcasting
        final SessionFactoryImplementor factoryImplementor = entityManagerFactory.getSessionFactory();
        final NamedSQLQueryDefinition queryDefinition = factoryImplementor.getNamedSQLQuery( name );
        try {
            if ( queryDefinition != null ) {
                Class<?> actualReturnedClass;

                final NativeSQLQueryReturn[] queryReturns;
                if ( queryDefinition.getQueryReturns() != null ) {
                    queryReturns = queryDefinition.getQueryReturns();
                }
                else if ( queryDefinition.getResultSetRef() != null ) {
                    final ResultSetMappingDefinition rsMapping = factoryImplementor.getResultSetMapping(
                        queryDefinition.getResultSetRef()
                    );
                    queryReturns = rsMapping.getQueryReturns();
                }
                else {
                    throw new AssertionError( "Unsupported named query model. Please report the bug in Hibernate
EntityManager");
                }
                if ( queryReturns.length > 1 ) {
                    throw new IllegalArgumentException( "Cannot create TypedQuery for query with more than one return" );
                }
                final NativeSQLQueryReturn nativeSQLQueryReturn = queryReturns[0];
                if ( nativeSQLQueryReturn instanceof NativeSQLQueryRootReturn ) {
                    final String entityClassName = ( ( NativeSQLQueryRootReturn ) nativeSQLQueryReturn ).getReturnEntityName();
                    try {
                        actualReturnedClass = ReflectHelper.classNameForName( entityClassName, AbstractEntityManagerImpl.class );
                    }
                    catch ( ClassNotFoundException e ) {
                        throw new AssertionError( "Unable to instantiate class declared on named native query: " + name + " " +
entityClassName );
                    }
                    if ( !resultClass.isAssignableFrom( actualReturnedClass ) ) {
                        throw buildIncompatibleException( resultClass, actualReturnedClass );
                    }
                }
            }
        }
    }
}

```

```

    }
    }
    else {
        //TODO support other NativeSQLQueryReturn type. For now let it go.
    }
    }
    else {
        resultClassChecking( resultClass, namedQuery );

    }
    return new QueryImpl<T>( namedQuery, this );
    }
    catch ( HibernateException he ) {
        throw convert( he );
    }
    }
    catch ( MappingException e ) {
        throw new IllegalArgumentException( "Named query not found: " + name );
    }
    }
}

private <T> void resultClassChecking(Class<T> resultClass, org.hibernate.Query query) {
    // make sure the query is a select -> HHH-7192
    final SessionImplementor session = unwrap( SessionImplementor.class );
    final HQLQueryPlan queryPlan = session.getFactory().getQueryPlanCache().getHQLQueryPlan(
        query.getQueryString(),
        false,
        session.getLoadQueryInfluencers().getEnabledFilters()
    );
    if ( queryPlan.getTranslators()[0].isManipulationStatement() ) {
        throw new IllegalArgumentException( "Update/delete queries cannot be typed" );
    }

    // do some return type validation checking
    if ( Object[].class.equals( resultClass ) ) {
        // no validation needed
    }
    else if ( Tuple.class.equals( resultClass ) ) {
        TupleBuilderTransformer tupleTransformer = new TupleBuilderTransformer( query );
        query.setResultTransformer( tupleTransformer );
    }
    else {
        final Class dynamicInstantiationClass = queryPlan.getDynamicInstantiationResultType();
        if ( dynamicInstantiationClass != null ) {
            if ( ! resultClass.isAssignableFrom( dynamicInstantiationClass ) ) {
                throw new IllegalArgumentException(
                    "Mismatch in requested result type [" + resultClass.getName() +
                    "] and actual result type [" + dynamicInstantiationClass.getName() + "]"
                );
            }
        }
    }
}

```

```

    );
    }
}
else if ( query.getReturnTypes().length == 1 ) {
    // if we have only a single return expression, its java type should match with the requested type
    if ( !resultClass.isAssignableFrom( query.getReturnTypes()[0].getReturnedClass() ) ) {
        throw new IllegalArgumentException(
            "Type specified for TypedQuery [" +
            resultClass.getName() +
            "] is incompatible with query return type [" +
            query.getReturnTypes()[0].getReturnedClass() + "]"
        );
    }
}
else {
    throw new IllegalArgumentException(
        "Cannot create TypedQuery for query with more than one return using requested result type [" +
        resultClass.getName() + "]"
    );
}
}
}

private IllegalArgumentException buildIncompatibleException(Class<?> resultClass, Class<?> actualResultClass) {
    return new IllegalArgumentException(
        "Type specified for TypedQuery [" +
        resultClass.getName() +
        "] is incompatible with query return type [" +
        actualResultClass + "]"
    );
}

public Query createNativeQuery(String sqlString) {
    try {
        SQLQuery q = getSession().createSQLQuery( sqlString );
        return new QueryImpl( q, this );
    }
    catch ( HibernateException he ) {
        throw convert( he );
    }
}

public Query createNativeQuery(String sqlString, Class resultClass) {
    try {
        SQLQuery q = getSession().createSQLQuery( sqlString );
        q.addEntity( "alias1", resultClass.getName(), LockMode.READ );
        return new QueryImpl( q, this );
    }
}

```

```

catch ( HibernateException he ) {
    throw convert( he );
}
}

public Query createNativeQuery(String sqlString, String resultSetMapping) {
    try {
        SQLQuery q = getSession().createSQLQuery( sqlString );
        q.setResultSetMapping( resultSetMapping );
        return new QueryImpl( q, this );
    }
    catch ( HibernateException he ) {
        throw convert( he );
    }
}

@SuppressWarnings("unchecked")
public <T> T getReference(Class<T> entityClass, Object primaryKey) {
    try {
        return ( T ) getSession().load( entityClass, ( Serializable ) primaryKey );
    }
    catch ( MappingException e ) {
        throw new IllegalArgumentException( e.getMessage(), e );
    }
    catch ( TypeMismatchException e ) {
        throw new IllegalArgumentException( e.getMessage(), e );
    }
    catch ( ClassCastException e ) {
        throw new IllegalArgumentException( e.getMessage(), e );
    }
    catch ( HibernateException he ) {
        throw convert( he );
    }
}

@SuppressWarnings("unchecked")
public <A> A find(Class<A> entityClass, Object primaryKey) {
    return find( entityClass, primaryKey, null, null );
}

public <T> T find(Class<T> entityClass, Object primaryKey, Map<String, Object> properties) {
    return find( entityClass, primaryKey, null, properties );
}

@SuppressWarnings("unchecked")
public <A> A find(Class<A> entityClass, Object primaryKey, LockModeType lockModeType) {
    return find( entityClass, primaryKey, lockModeType, null );
}

```

```

public <A> A find(Class<A> entityClass, Object primaryKey, LockModeType lockModeType, Map<String,
Object> properties) {
    CacheMode previousCacheMode = getSession().getCacheMode();
    CacheMode cacheMode = determineAppropriateLocalCacheMode( properties );
    LockOptions lockOptions = null;
    try {
        getSession().setCacheMode( cacheMode );
        if ( lockModeType != null ) {
            lockOptions = getLockRequest( lockModeType, properties );
            return ( A ) getSession().get(
                entityClass, ( Serializable ) primaryKey,
                lockOptions
            );
        }
        else {
            return ( A ) getSession().get( entityClass, ( Serializable ) primaryKey );
        }
    }
    catch ( EntityNotFoundException ignored ) {
        // DefaultLoadEventListener.returnNarrowedProxy may throw ENFE (see HHH-7861 for details),
        // which find() should not throw. Find() should return null if the entity was not found.
        if ( LOG.isDebugEnabled() ) {
            String entityName = entityClass != null ? entityClass.getName(): null;
            String identifierValue = primaryKey != null ? primaryKey.toString() : null ;
            LOG.ignoringEntityNotFound( entityName, identifierValue );
        }
        return null;
    }
    catch ( ObjectDeletedException e ) {
        //the spec is silent about people doing remove() find() on the same PC
        return null;
    }
    catch ( ObjectNotFoundException e ) {
        //should not happen on the entity itself with get
        throw new IllegalArgumentException( e.getMessage(), e );
    }
    catch ( MappingException e ) {
        throw new IllegalArgumentException( e.getMessage(), e );
    }
    catch ( TypeMismatchException e ) {
        throw new IllegalArgumentException( e.getMessage(), e );
    }
    catch ( ClassCastException e ) {
        throw new IllegalArgumentException( e.getMessage(), e );
    }
    catch ( HibernateException he ) {
        throw convert( he, lockOptions );
    }
}

```

```

    }
    finally {
        getSession().setCacheMode( previousCacheMode );
    }
}

public CacheMode determineAppropriateLocalCacheMode(Map<String, Object> localProperties) {
    CacheRetrieveMode retrieveMode = null;
    CacheStoreMode storeMode = null;
    if ( localProperties != null ) {
        retrieveMode = determineCacheRetrieveMode( localProperties );
        storeMode = determineCacheStoreMode( localProperties );
    }
    if ( retrieveMode == null ) {
        // use the EM setting
        retrieveMode = determineCacheRetrieveMode( this.properties );
    }
    if ( storeMode == null ) {
        // use the EM setting
        storeMode = determineCacheStoreMode( this.properties );
    }
    return CacheModeHelper.interpretCacheMode( storeMode, retrieveMode );
}

private void checkTransactionNeeded() {
    if ( persistenceContextType == PersistenceContextType.TRANSACTION && !isTransactionInProgress() ) {
        //no need to mark as rollback, no tx in progress
        throw new TransactionRequiredException(
            "no transaction is in progress for a TRANSACTION type persistence context"
        );
    }
}

public void persist(Object entity) {
    checkTransactionNeeded();
    try {
        getSession().persist( entity );
    }
    catch ( MappingException e ) {
        throw new IllegalArgumentException( e.getMessage() );
    }
    catch ( RuntimeException e ) {
        throw convert( e );
    }
}

@SuppressWarnings("unchecked")
public <A> A merge(A entity) {

```

```

checkTransactionNeeded();
try {
    return ( A ) getSession().merge( entity );
}
catch ( ObjectDeletedException sse ) {
    throw new IllegalArgumentException( sse );
}
catch ( MappingException e ) {
    throw new IllegalArgumentException( e.getMessage(), e );
}
catch ( RuntimeException e ) { //including HibernateException
    throw convert( e );
}
}

public void remove(Object entity) {
    checkTransactionNeeded();
    try {
        getSession().delete( entity );
    }
    catch ( MappingException e ) {
        throw new IllegalArgumentException( e.getMessage(), e );
    }
    catch ( RuntimeException e ) { //including HibernateException
        throw convert( e );
    }
}

public void refresh(Object entity) {
    refresh( entity, null, null );
}

public void refresh(Object entity, Map<String, Object> properties) {
    refresh( entity, null, properties );
}

public void refresh(Object entity, LockModeType lockModeType) {
    refresh( entity, lockModeType, null );
}

public void refresh(Object entity, LockModeType lockModeType, Map<String, Object> properties) {
    checkTransactionNeeded();
    CacheMode previousCacheMode = getSession().getCacheMode();
    CacheMode localCacheMode = determineAppropriateLocalCacheMode( properties );
    LockOptions lockOptions = null;
    try {
        getSession().setCacheMode( localCacheMode );
        if ( !getSession().contains( entity ) ) {

```



```

        throw new IllegalArgumentException( "Entity not managed" );
    }
    if ( lockModeType != null ) {
        lockOptions = getLockRequest( lockModeType, properties );
        getSession().refresh( entity, lockOptions );
    }
    else {
        getSession().refresh( entity );
    }
}
catch ( MappingException e ) {
    throw new IllegalArgumentException( e.getMessage(), e );
}
catch ( HibernateException he ) {
    throw convert( he, lockOptions );
}
finally {
    getSession().setCacheMode( previousCacheMode );
}
}

public boolean contains(Object entity) {
    try {
        if ( entity != null
            && !( entity instanceof HibernateProxy )
            && getSession().getSessionFactory().getClassMetadata( entity.getClass() ) == null ) {
            throw new IllegalArgumentException( "Not an entity:" + entity.getClass() );
        }
        return getSession().contains( entity );
    }
    catch ( MappingException e ) {
        throw new IllegalArgumentException( e.getMessage(), e );
    }
    catch ( HibernateException he ) {
        throw convert( he );
    }
}

public LockModeType getLockMode(Object entity) {
    if ( !contains( entity ) ) {
        throw new IllegalArgumentException( "entity not in the persistence context" );
    }
    return getLockModeType( getSession().getCurrentLockMode( entity ) );
}

public void setProperty(String s, Object o) {
    if ( entityManagerSpecificProperties.contains( s ) ) {
        properties.put( s, o );
    }
}

```

```

    applyProperties();
    } else LOG.debugf("Trying to set a property which is not supported on entity manager level");
}

public Map<String, Object> getProperties() {
    return Collections.unmodifiableMap( properties );
}

public void flush() {
    if ( !isTransactionInProgress() ) {
        throw new TransactionRequiredException( "no transaction is in progress" );
    }
    try {
        getSession().flush();
    }
    catch ( RuntimeException e ) {
        throw convert( e );
    }
}

/**
 * return a Session
 *
 * @throws IllegalStateException if the entity manager is closed
 */
public abstract Session getSession();

/**
 * Return a Session (even if the entity manager is closed).
 *
 * @return A session.
 */
protected abstract Session getRawSession();

public EntityTransaction getTransaction() {
    if ( transactionType == PersistenceUnitTransactionType.JTA ) {
        throw new IllegalStateException( "A JTA EntityManager cannot use getTransaction()" );
    }
    return tx;
}

/**
 * {@inheritDoc}
 */
public EntityManagerFactoryImpl getEntityManagerFactory() {
    return entityManagerFactory;
}

```

```

/**
 * {@inheritDoc}
 */
public HibernateEntityManagerFactory getFactory() {
    return entityManagerFactory;
}

/**
 * {@inheritDoc}
 */
public CriteriaBuilder getCriteriaBuilder() {
    return getEntityManagerFactory().getCriteriaBuilder();
}

/**
 * {@inheritDoc}
 */
public Metamodel getMetamodel() {
    return getEntityManagerFactory().getMetamodel();
}

public void setFlushMode(FlushModeType flushModeType) {
    if ( flushModeType == FlushModeType.AUTO ) {
        getSession().setFlushMode( FlushMode.AUTO );
    }
    else if ( flushModeType == FlushModeType.COMMIT ) {
        getSession().setFlushMode( FlushMode.COMMIT );
    }
    else {
        throw new AssertionError( "Unknown FlushModeType: " + flushModeType );
    }
}

public void clear() {
    try {
        getSession().clear();
    }
    catch ( HibernateException he ) {
        throw convert( he );
    }
}

public void detach(Object entity) {
    try {
        getSession().evict( entity );
    }
    catch ( HibernateException he ) {
        throw convert( he );
    }
}

```

```

    }
}

/**
 * Hibernate can be set in various flush modes that are unknown to
 * JPA 2.0. This method can then return null.
 * If it returns null, do em.unwrap(Session.class).getFlushMode() to get the
 * Hibernate flush mode
 */
public FlushModeType getFlushMode() {
    FlushMode mode = getSession().getFlushMode();
    if ( mode == FlushMode.AUTO ) {
        return FlushModeType.AUTO;
    }
    else if ( mode == FlushMode.COMMIT ) {
        return FlushModeType.COMMIT;
    }
    else {
        // otherwise this is an unknown mode for EJB3
        return null;
    }
}

public void lock(Object entity, LockModeType lockMode) {
    lock( entity, lockMode, null );
}

public void lock(Object entity, LockModeType lockModeType, Map<String, Object> properties) {
    LockOptions lockOptions = null;
    if ( !isTransactionInProgress() ) {
        throw new TransactionRequiredException( "no transaction is in progress" );
    }

    try {
        if ( !contains( entity ) ) {
            throw new IllegalArgumentException( "entity not in the persistence context" );
        }
        lockOptions = getLockRequest( lockModeType, properties );
        getSession().buildLockRequest( lockOptions ).lock( entity );
    }
    catch ( HibernateException he ) {
        throw convert( he, lockOptions );
    }
}

public LockOptions getLockRequest(LockModeType lockModeType, Map<String, Object> properties) {
    LockOptions lockOptions = new LockOptions();
    LockOptions.copy( this.lockOptions, lockOptions );
}

```

```

lockOptions.setLockMode( getLockMode( lockModeType ) );
if ( properties != null ) {
    setLockOptions( properties, lockOptions );
}
return lockOptions;
}

@SuppressWarnings("deprecation")
private static LockModeType getLockModeType(LockMode lockMode) {
    //TODO check that if we have UPGRADE_NOWAIT we have a timeout of zero?
    return LockModeTypeHelper.getLockModeType( lockMode );
}

private static LockMode getLockMode(LockModeType lockMode) {
    return LockModeTypeHelper.getLockMode( lockMode );
}

public boolean isTransactionInProgress() {
    return ( ( SessionImplementor ) getRawSession() ).isTransactionInProgress();
}

private SessionFactoryImplementor sfi() {
    return (SessionFactoryImplementor) getRawSession().getSessionFactory();
}

protected void markAsRollback() {
    LOG.debugf("Mark transaction for rollback");
    if ( tx.isActive() ) {
        tx.setRollbackOnly();
    }
    else {
        //no explicit use of the tx. boundaries methods
        if ( PersistenceUnitTransactionType.JTA == transactionType ) {
            TransactionManager transactionManager = sfi().getServiceRegistry().getService( JtaPlatform.class
).retrieveTransactionManager();
            if ( transactionManager == null ) {
                throw new PersistenceException(
                    "Using a JTA persistence context wo setting hibernate.transaction.manager_lookup_class"
                );
            }
            try {
                if ( transactionManager.getStatus() != Status.STATUS_NO_TRANSACTION ) {
                    transactionManager.setRollbackOnly();
                }
            }
            catch ( SystemException e ) {
                throw new PersistenceException( "Unable to set the JTA transaction as RollbackOnly", e );
            }
        }
    }
}

```

```

    }
    }
    }
}

public void joinTransaction() {
    if( !isOpen() ){
        throw new IllegalStateException( "EntityManager is closed" );
    }
    joinTransaction( true );
}

public <T> T unwrap(Class<T> clazz) {
    if ( Session.class.isAssignableFrom( clazz ) ) {
        return ( T ) getSession();
    }
    if ( SessionImplementor.class.isAssignableFrom( clazz ) ) {
        return ( T ) getSession();
    }
    if ( EntityManager.class.isAssignableFrom( clazz ) ) {
        return ( T ) this;
    }
    throw new PersistenceException( "Hibernate cannot unwrap " + clazz );
}

private void joinTransaction(boolean explicitRequest) {
    if ( transactionType != PersistenceUnitTransactionType.JTA ) {
        if ( explicitRequest ) {
            LOG.callingJoinTransactionOnNonJtaEntityManager();
        }
        return;
    }

    final SessionImplementor session = (SessionImplementor) getSession();
    final TransactionCoordinator transactionCoordinator = session.getTransactionCoordinator();
    final TransactionImplementor transaction = transactionCoordinator.getTransaction();

    transaction.markForJoin();
    transactionCoordinator.pulse();

    LOG.debug( "Looking for a JTA transaction to join" );
    if ( ! transactionCoordinator.isTransactionJoinable() ) {
        if ( explicitRequest ) {
            // if this is an explicit join request, log a warning so user can track underlying cause
            // of subsequent exceptions/messages
            LOG.unableToJoinTransaction(Environment.TRANSACTION_STRATEGY);
        }
    }
}

```

```

try {
    if ( transaction.getJoinStatus() == JoinStatus.JOINED ) {
        LOG.debug( "Transaction already joined" );
        return; // noop
    }

    // join the transaction and then recheck the status
    transaction.join();
    if ( transaction.getJoinStatus() == JoinStatus.NOT_JOINED ) {
        if ( explicitRequest ) {
            throw new TransactionRequiredException( "No active JTA transaction on joinTransaction call" );
        }
        else {
            LOG.debug( "Unable to join JTA transaction" );
            return;
        }
    }
    else if ( transaction.getJoinStatus() == JoinStatus.MARKED_FOR_JOINED ) {
        throw new AssertionFailure( "Transaction MARKED_FOR_JOINED after isOpen() call" );
    }

    // register behavior changes
    SynchronizationCallbackCoordinator callbackCoordinator =
transactionCoordinator.getSynchronizationCallbackCoordinator();
    callbackCoordinator.setManagedFlushChecker( new ManagedFlushCheckerImpl() );
    callbackCoordinator.setExceptionHandler( new CallbackExceptionHandlerImpl() );
    callbackCoordinator.setAfterCompletionAction( new AfterCompletionActionImpl( session, transactionType ) );
}
catch ( HibernateException he ) {
    throw convert( he );
}
}

/**
 * returns the underlying session
 */
public Object getDelegate() {
    return getSession();
}

private void writeObject(ObjectOutputStream oos) throws IOException {
    oos.defaultWriteObject();
}

private void readObject(ObjectInputStream ois) throws IOException, ClassNotFoundException {
    ois.defaultReadObject();
    tx = new TransactionImpl( this );
}

```

```

}

/**
 * {@inheritDoc}
 */
public void handlePersistenceException(PersistenceException e) {
    if ( e instanceof NoResultException ) {
        return;
    }
    if ( e instanceof NonUniqueResultException ) {
        return;
    }
    if ( e instanceof LockTimeoutException ) {
        return;
    }
    if ( e instanceof QueryTimeoutException ) {
        return;
    }

    try {
        markAsRollback();
    }
    catch ( Exception ne ) {
        //we do not want the subsequent exception to swallow the original one
        LOG.unableToMarkForRollbackOnPersistenceException(ne);
    }
}

/**
 * {@inheritDoc}
 */
public void throwPersistenceException(PersistenceException e) {
    handlePersistenceException( e );
    throw e;
}

/**
 * {@inheritDoc}
 */
//FIXME should we remove all calls to this method and use convert(RuntimeException) ?
public RuntimeException convert(HibernateException e) {
    return convert( e, null );
}

public RuntimeException convert(RuntimeException e) {
    RuntimeException result = e;
    if ( e instanceof HibernateException ) {
        result = convert( ( HibernateException ) e );
    }
}

```



```

    }
    else {
        markAsRollback();
    }
    return result;
}

/**
 * {@inheritDoc}
 */
public RuntimeException convert(HibernateException e, LockOptions lockOptions) {
    if ( e instanceof StaleStateException ) {
        PersistenceException converted = wrapStaleStateException( ( StaleStateException ) e );
        handlePersistenceException( converted );
        return converted;
    }
    else if ( e instanceof LockingStrategyException ) {
        PersistenceException converted = wrapLockException( e, lockOptions );
        handlePersistenceException( converted );
        return converted;
    }
    else if ( e instanceof org.hibernate.exception.LockTimeoutException ) {
        PersistenceException converted = wrapLockException( e, lockOptions );
        handlePersistenceException( converted );
        return converted;
    }
    else if ( e instanceof org.hibernate.PessimisticLockException ) {
        PersistenceException converted = wrapLockException( e, lockOptions );
        handlePersistenceException( converted );
        return converted;
    }
    else if ( e instanceof org.hibernate.QueryTimeoutException ) {
        QueryTimeoutException converted = new QueryTimeoutException(e.getMessage(), e);
        handlePersistenceException( converted );
        return converted;
    }
    else if ( e instanceof ObjectNotFoundException ) {
        EntityNotFoundException converted = new EntityNotFoundException( e.getMessage() );
        handlePersistenceException( converted );
        return converted;
    }
    else if ( e instanceof org.hibernate.NonUniqueObjectException ) {
        EntityExistsException converted = new EntityExistsException( e.getMessage() );
        handlePersistenceException( converted );
        return converted;
    }
    else if ( e instanceof org.hibernate.NonUniqueResultException ) {
        NonUniqueResultException converted = new NonUniqueResultException( e.getMessage() );

```

```

    handlePersistenceException( converted );
    return converted;
}
else if ( e instanceof UnresolvableObjectException ) {
    EntityNotFoundException converted = new EntityNotFoundException( e.getMessage() );
    handlePersistenceException( converted );
    return converted;
}
else if ( e instanceof QueryException ) {
    return new IllegalArgumentException( e );
}
else if ( e instanceof TransientObjectException ) {
    try {
        markAsRollback();
    }
    catch ( Exception ne ) {
        //we do not want the subsequent exception to swallow the original one
        LOG.unableToMarkForRollbackOnTransientObjectException(ne);
    }
    return new IllegalStateException( e ); //Spec 3.2.3 Synchronization rules
}
else {
    PersistenceException converted = new PersistenceException( e );
    handlePersistenceException( converted );
    return converted;
}
}

/**
 * {@inheritDoc}
 */
public void throwPersistenceException(HibernateException e) {
    throw convert( e );
}

/**
 * {@inheritDoc}
 */
public PersistenceException wrapStaleStateException(StaleStateException e) {
    PersistenceException pe;
    if ( e instanceof StaleObjectStateException ) {
        StaleObjectStateException sose = ( StaleObjectStateException ) e;
        Serializable identifier = sose.getIdentifier();
        if ( identifier != null ) {
            try {
                Object entity = getRawSession().load( sose.getEntityName(), identifier );
                if ( entity instanceof Serializable ) {
                    //avoid some user errors regarding boundary crossing

```

```

    pe = new OptimisticLockException( null, e, entity );
}
else {
    pe = new OptimisticLockException( e );
}
}
catch ( EntityNotFoundException enfe ) {
    pe = new OptimisticLockException( e );
}
}
else {
    pe = new OptimisticLockException( e );
}
}
else {
    pe = new OptimisticLockException( e );
}
return pe;
}

```

```

public PersistenceException wrapLockException(HibernateException e, LockOptions lockOptions) {
    final PersistenceException pe;
    if ( e instanceof OptimisticEntityLockException ) {
        final OptimisticEntityLockException lockException = (OptimisticEntityLockException) e;
        pe = new OptimisticLockException( lockException.getMessage(), lockException, lockException.getEntity() );
    }
    else if ( e instanceof org.hibernate.exception.LockTimeoutException ) {
        pe = new LockTimeoutException( e.getMessage(), e, null );
    }
    else if ( e instanceof PessimisticEntityLockException ) {
        PessimisticEntityLockException lockException = (PessimisticEntityLockException) e;
        if ( lockOptions != null && lockOptions.getTimeout() > -1 ) {
            // assume lock timeout occurred if a timeout or NO WAIT was specified
            pe = new LockTimeoutException( lockException.getMessage(), lockException, lockException.getEntity() );
        }
        else {
            pe = new PessimisticLockException( lockException.getMessage(), lockException, lockException.getEntity() );
        }
    }
    else if ( e instanceof org.hibernate.PessimisticLockException ) {
        org.hibernate.PessimisticLockException jdbcLockException = ( org.hibernate.PessimisticLockException ) e;
        if ( lockOptions != null && lockOptions.getTimeout() > -1 ) {
            // assume lock timeout occurred if a timeout or NO WAIT was specified
            pe = new LockTimeoutException( jdbcLockException.getMessage(), jdbcLockException, null );
        }
        else {
            pe = new PessimisticLockException( jdbcLockException.getMessage(), jdbcLockException, null );
        }
    }
}

```

```

    }
    else {
        pe = new OptimisticLockException( e );
    }
    return pe;
}

private static class AfterCompletionActionImpl implements AfterCompletionAction {
    private final SessionImplementor session;
    private final PersistenceUnitTransactionType transactionType;

    private AfterCompletionActionImpl(SessionImplementor session, PersistenceUnitTransactionType transactionType)
    {
        this.session = session;
        this.transactionType = transactionType;
    }

    @Override
    public void doAction(TransactionCoordinator transactionCoordinator, int status) {
        if ( session.isClosed() ) {
            LOG.trace("Session was closed; nothing to do");
            return;
        }

        final boolean successful = JtaStatusHelper.isCommitted( status );
        if ( !successful && transactionType == PersistenceUnitTransactionType.JTA ) {
            ( (Session) session ).clear();
        }
        session.getTransactionCoordinator().resetJoinStatus();
    }
}

private static class ManagedFlushCheckerImpl implements ManagedFlushChecker {
    @Override
    public boolean shouldDoManagedFlush(TransactionCoordinator coordinator, int jtaStatus) {
        return ! coordinator.getTransactionContext().isClosed() &&
            ! coordinator.getTransactionContext().isFlushModeNever() &&
            ! JtaStatusHelper.isRollback( jtaStatus );
    }
}

private class CallbackExceptionMapperImpl implements ExceptionMapper {
    @Override
    public RuntimeException mapStatusCheckFailure(String message, SystemException systemException) {
        throw new PersistenceException( message, systemException );
    }

    @Override

```

```

public RuntimeException mapManagedFlushFailure(String message, RuntimeException failure) {
    if ( HibernateException.class.isInstance( failure ) ) {
        throw convert( failure );
    }
    if ( PersistenceException.class.isInstance( failure ) ) {
        throw failure;
    }
    throw new PersistenceException( message, failure );
}
}
}
/*
* Hibernate, Relational Persistence for Idiomatic Java
*
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* third-party contributors as indicated by either @author tags or express
* copyright attribution statements applied by the authors. All
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* for more details.
*
* You should have received a copy of the GNU Lesser General Public License
* along with this distribution; if not, write to:
* Free Software Foundation, Inc.
* 51 Franklin Street, Fifth Floor
* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb;

import java.util.List;
import java.util.Map;
import javax.persistence.LockModeType;
import javax.persistence.PersistenceException;
import javax.persistence.TypedQuery;
import javax.persistence.criteria.Selection;

import org.hibernate.HibernateException;
import org.hibernate.LockOptions;
import org.hibernate.StaleStateException;
import org.hibernate.ejb.criteria.ValueHandlerFactory;
import org.hibernate.type.Type;

```

```

/**
 * Additional internal contracts for the Hibernate {@link javax.persistence.EntityManager} implementation.
 *
 * @author Emmanuel Bernard
 * @author Steve Ebersole
 */
public interface HibernateEntityManagerImplementor extends HibernateEntityManager {
/**
 * Get access to the Hibernate extended EMF contract.
 *
 * @return The Hibernate EMF contract for this EM.
 */
public HibernateEntityManagerFactory getFactory();

/**
 * Provides access to whether a transaction is currently in progress.
 *
 * @return True if a transaction is considered currently in progress; false otherwise.
 */
boolean isTransactionInProgress();

/**
 * Handles marking for rollback and other such operations that need to occur depending on the type of
 * exception being handled.
 *
 * @param e The exception being handled.
 */
public void handlePersistenceException(PersistenceException e);

/**
 * Delegates to {@link #handlePersistenceException} and then throws the given exception.
 *
 * @param e The exception being handled and finally thrown.
 */
public void throwPersistenceException(PersistenceException e);

/**
 * Converts a Hibernate-specific exception into a JPA-specified exception; note that the JPA specification makes use
 * of exceptions outside its exception hierarchy, though they are all runtime exceptions.
 *
 * 
 * Any appropriate/needed calls to {@link #handlePersistenceException} are also made.
 *
 * @param e The Hibernate exception.
 * @param lockOptions The lock options in effect at the time of exception (can be null)
 *
 * @return The JPA-specified exception
 */
}

```

```

public RuntimeException convert(HibernateException e, LockOptions lockOptions);

/**
 * Converts a Hibernate-specific exception into a JPA-specified exception; note that the JPA specification makes use
 * of exceptions outside its exception hierarchy, though they are all runtime exceptions.
 * <p/>
 * Any appropriate/needed calls to { @link #handlePersistenceException } are also made.
 *
 * @param e The Hibernate exception.
 *
 * @return The JPA-specified exception
 */
public RuntimeException convert(HibernateException e);

/**
 * Delegates to { @link #convert } and then throws the given exception.
 *
 * @param e The exception being handled and finally thrown.
 */
public void throwPersistenceException(HibernateException e);

public PersistenceException wrapStaleStateException(StaleStateException e);

/**
 * Convert from JPA 2 { @link LockModeType } & properties into { @link LockOptions }
 *
 * @param lockModeType is the requested lock type
 * @param properties are the lock properties
 *
 * @return the LockOptions
 */
public LockOptions getLockRequest(LockModeType lockModeType, Map<String, Object> properties);

public static interface Options {
    public static interface ResultMetadataValidator {
        public void validate(Type[] returnTypes);
    }
}

/**
 * Get the conversions for the individual tuples in the query results.
 *
 * @return Value conversions to be applied to the JPA QL results
 */
public List<ValueHandlerFactory.ValueHandler> getValueHandlers();

/**
 * Get the explicit parameter types. Generally speaking these would apply to implicit named
 * parameters.

```

```

*
* @return The
*/
public Map<String, Class> getNamedParameterExplicitTypes();

public ResultMetadataValidator getResultMetadataValidator();
}

/**
 * Used during "compiling" a JPA criteria query.
 *
 * @param jpaqlString The criteria query rendered as a JPA QL string
 * @param resultClass The result type (the type expected in the result list)
 * @param selection The selection(s)
 * @param options The options to use to build the query.
 * @param <T> The query type
 *
 * @return The typed query
 */
public <T> TypedQuery<T> createQuery(String jpaqlString, Class<T> resultClass, Selection selection, Options
options);
}
/*
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 * indicated by the @author tags or express copyright attribution
 * statements applied by the authors. All third-party contributions are
 * distributed under license by Red Hat Middleware LLC.
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 *
 * You should have received a copy of the GNU Lesser General Public License
 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */

//$Id$
package org.hibernate.ejb;

import javax.persistence.EntityTransaction;

```



```

import javax.persistence.PersistenceException;
import javax.persistence.RollbackException;

import org.hibernate.HibernateException;
import org.hibernate.Session;
import org.hibernate.Transaction;

/**
 * @author Gavin King
 * @author Emmanuel Bernard
 */
public class TransactionImpl implements EntityTransaction {

    private HibernateEntityManagerImplementor entityManager;
    private Transaction tx;
    private boolean rollbackOnly;

    public TransactionImpl(AbstractEntityManagerImpl entityManager) {
        this.entityManager = entityManager;
    }

    private Session getSession() {
        return entityManager.getSession();
    }

    public void begin() {
        try {
            rollbackOnly = false;
            if ( tx != null && tx.isActive() ) {
                throw new IllegalStateException( "Transaction already active" );
            }
            //entityManager.adjustFlushMode();
            tx = getSession().beginTransaction();
        }
        catch (HibernateException he) {
            entityManager.throwPersistenceException( he );
        }
    }

    public void commit() {
        if ( tx == null || !tx.isActive() ) {
            throw new IllegalStateException( "Transaction not active" );
        }
        if ( rollbackOnly ) {
            tx.rollback();
            throw new RollbackException( "Transaction marked as rollbackOnly" );
        }
        try {

```

```

    tx.commit();
}
catch (Exception e) {
    Exception wrappedException;
    if (e instanceof HibernateException) {
        wrappedException = entityManager.convert( (HibernateException)e );
    }
    else {
        wrappedException = e;
    }
    try {
        //as per the spec we should rollback if commit fails
        tx.rollback();
    }
    catch (Exception re) {
        //swallow
    }
    throw new RollbackException( "Error while committing the transaction", wrappedException );
}
finally {
    rollbackOnly = false;
}
//if closed and we commit, the mode should have been adjusted already
//if ( entityManager.isOpen() ) entityManager.adjustFlushMode();
}

public void rollback() {
    if ( tx == null || !tx.isActive() ) {
        throw new IllegalStateException( "Transaction not active" );
    }
    try {
        tx.rollback();
    }
    catch (Exception e) {
        throw new PersistenceException( "unexpected error when rollbacking", e );
    }
    finally {
        try {
            if (entityManager != null) {
                Session session = getSession();
                if ( session != null && session.isOpen() ) session.clear();
            }
        }
        catch (Throwable t) {
            //we don't really care here since it's only for safety purpose
        }
        rollbackOnly = false;
    }
}

```

```

}

public void setRollbackOnly() {
    if ( ! isActive() ) throw new IllegalStateException( "Transaction not active" );
    this.rollbackOnly = true;
}

public boolean getRollbackOnly() {
    if ( ! isActive() ) throw new IllegalStateException( "Transaction not active" );
    return rollbackOnly;
}

public boolean isActive() {
    try {
        return tx != null && tx.isActive();
    }
    catch (RuntimeException e) {
        throw new PersistenceException( "unexpected error when checking transaction status", e );
    }
}

}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 * indicated by the @author tags or express copyright attribution
 * statements applied by the authors. All third-party contributions are
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 * but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY
 * or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License
 * for more details.
 *
 * You should have received a copy of the GNU Lesser General Public License
 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb;

import static javax.persistence.TemporalType.DATE;

```

```

import static javax.persistence.TemporalType.TIME;
import static javax.persistence.TemporalType.TIMESTAMP;

import java.util.Calendar;
import java.util.Collection;
import java.util.Collections;
import java.util.Date;
import java.util.HashSet;
import java.util.List;
import java.util.Map;
import java.util.Set;

import javax.persistence.NoResultException;
import javax.persistence.NonUniqueResultException;
import javax.persistence.Parameter;
import javax.persistence.PersistenceException;
import javax.persistence.Query;
import javax.persistence.TemporalType;
import javax.persistence.TransactionRequiredException;
import javax.persistence.TypedQuery;

import org.hibernate.CacheMode;
import org.hibernate.FlushMode;
import org.hibernate.HibernateException;
import org.hibernate.LockMode;
import org.hibernate.QueryParameterException;
import org.hibernate.TypeMismatchException;
import org.hibernate.ejb.internal.EntityManagerMessageLogger;
import org.hibernate.ejb.util.ConfigurationHelper;
import org.hibernate.ejb.util.LockModeTypeHelper;
import org.hibernate.engine.query.spi.NamedParameterDescriptor;
import org.hibernate.engine.query.spi.OrdinalParameterDescriptor;
import org.hibernate.engine.spi.SessionFactoryImplementor;
import org.hibernate.hql.internal.QueryExecutionRequestException;
import org.hibernate.internal.AbstractQueryImpl;
import org.hibernate.internal.SQLQueryImpl;
import org.hibernate.type.CompositeCustomType;
import org.hibernate.type.Type;
import org.jboss.logging.Logger;

/**
 * Hibernate implementation of both the { @link Query } and { @link TypedQuery } contracts.
 *
 * @author <a href="mailto:gavin@hibernate.org">Gavin King</a>
 * @author Emmanuel Bernard
 * @author Steve Ebersole
 */
public class QueryImpl<X> extends org.hibernate.ejb.AbstractQueryImpl<X> implements TypedQuery<X>,

```

```

HibernateQuery {

    public static final EntityManagerMessageLogger LOG =
Logger.getMessageLogger(EntityManagerMessageLogger.class, QueryImpl.class.getName());

    private AbstractQueryImpl query;
    private Set<Integer> jpaPositionalIndices;
    private Set<Parameter<?>> parameters;

    public QueryImpl(org.hibernate.Query query, AbstractEntityManagerImpl em) {
        this( query, em, Collections.<String, Class>emptyMap() );
    }

    public QueryImpl(
        org.hibernate.Query query,
        AbstractEntityManagerImpl em,
        Map<String,Class> namedParameterTypeRedefinitions) {
        super( em );
        if ( ! AbstractQueryImpl.class.isInstance( query ) ) {
            throw new IllegalStateException(
                String.format( "Unknown query type [%s]", query.getClass().getName() )
            );
        }
        this.query = (AbstractQueryImpl) query;
        extractParameterInfo( namedParameterTypeRedefinitions );
    }

    @SuppressWarnings({ "unchecked", "RedundantCast" })
    private void extractParameterInfo(Map<String,Class> namedParameterTypeRedefinition) {
        if ( ! AbstractQueryImpl.class.isInstance( query ) ) {
            throw new IllegalStateException( "Unknown query type for parameter extraction" );
        }

        HashSet<Parameter<?>> parameters = new HashSet<Parameter<?>>();
        AbstractQueryImpl queryImpl = AbstractQueryImpl.class.cast( query );

        // extract named params
        for ( String name : (Set<String>) queryImpl.getParameterMetadata().getNamedParameterNames() ) {
            final NamedParameterDescriptor descriptor =
                queryImpl.getParameterMetadata().getNamedParameterDescriptor( name );
            Class javaType = namedParameterTypeRedefinition.get( name );
            if ( javaType != null && mightNeedRedefinition( javaType, descriptor.getExpectedType() ) ) {
                descriptor.resetExpectedType(
                    sfi().getTypeResolver().heuristicType( javaType.getName() )
                );
            }
            else if ( descriptor.getExpectedType() != null ) {
                javaType = descriptor.getExpectedType().getReturnedClass();
            }
        }
    }
}

```

```

    }
    final ParameterImpl parameter = new ParameterImpl( name, javaType );
    parameters.add( parameter );
    if ( descriptor.isJpaStyle() ) {
        if ( jpaPositionalIndices == null ) {
            jpaPositionalIndices = new HashSet<Integer>();
        }
        jpaPositionalIndices.add( Integer.valueOf( name ) );
    }
}

// extract positional parameters
for ( int i = 0, max = queryImpl.getParameterMetadata().getOrdinalParameterCount(); i < max; i++ ) {
    final OrdinalParameterDescriptor descriptor =
        queryImpl.getParameterMetadata().getOrdinalParameterDescriptor( i+1 );
    ParameterImpl parameter = new ParameterImpl(
        i + 1,
        descriptor.getExpectedType() == null
            ? null
            : descriptor.getExpectedType().getReturnedClass()
    );
    parameters.add( parameter );
    Integer position = descriptor.getOrdinalPosition();
    if ( jpaPositionalIndices != null && jpaPositionalIndices.contains(position))
LOG.parameterPositionOccurredAsBothJpaAndHibernatePositionalParameter(position);
}

this.parameters = java.util.Collections.unmodifiableSet( parameters );
}

private SessionFactoryImplementor sfi() {
    return (SessionFactoryImplementor) getEntityManager().getFactory().getSessionFactory();
}

private boolean mightNeedRedefinition(Class javaType, Type expectedType) {
    // only redefine dates/times/timestamps that are not wrapped in a CompositeCustomType
    if (expectedType == null)
        return java.util.Date.class.isAssignableFrom( javaType );
    else
        return java.util.Date.class.isAssignableFrom( javaType ) && !CompositeCustomType.class.isAssignableFrom(
expectedType.getClass() );
}

private static class ParameterImpl implements Parameter {
    private final String name;
    private final Integer position;
    private final Class javaType;

```

```

private ParameterImpl(String name, Class javaType) {
    this.name = name;
    this.javaType = javaType;
    this.position = null;
}

private ParameterImpl(Integer position, Class javaType) {
    this.position = position;
    this.javaType = javaType;
    this.name = null;
}

public String getName() {
    return name;
}

public Integer getPosition() {
    return position;
}

public Class getParameterType() {
    return javaType;
}

public org.hibernate.Query getHibernateQuery() {
    return query;
}

@Override
protected int internalExecuteUpdate() {
    return query.executeUpdate();
}

@Override
protected void applyMaxResults(int maxResults) {
    query.setMaxResults( maxResults );
}

@Override
protected void applyFirstResult(int firstResult) {
    query.setFirstResult( firstResult );
}

@Override
protected void applyTimeout(int timeout) {
    query.setTimeout( timeout );
}

```

```

@Override
protected void applyComment(String comment) {
    query.setComment( comment );
}

@Override
protected void applyFetchSize(int fetchSize) {
    query.setFetchSize( fetchSize );
}

@Override
protected void applyCacheable(boolean isCacheable) {
    query.setCacheable( isCacheable );
}

@Override
protected void applyCacheRegion(String regionName) {
    query.setCacheRegion( regionName );
}

@Override
protected void applyReadOnly(boolean isReadOnly) {
    query.setReadOnly( isReadOnly );
}

@Override
protected void applyCacheMode(CacheMode cacheMode) {
    query.setCacheMode( cacheMode );
}

@Override
protected void applyFlushMode(FlushMode flushMode) {
    query.setFlushMode( flushMode );
}

@Override
protected boolean canApplyLockModes() {
    return org.hibernate.internal.QueryImpl.class.isInstance( query )
        || SQLQueryImpl.class.isInstance( query );
}

@Override
protected void applyAliasSpecificLockMode(String alias, LockMode lockMode) {
    query.getLockOptions().setAliasSpecificLockMode( alias, lockMode );
}

/**

```



```

* { @inheritDoc }
*/
@SuppressWarnings({ "unchecked", "RedundantCast" })
public List<X> getResultList() {
    try {
        return query.list();
    }
    catch (QueryExecutionRequestException he) {
        throw new IllegalStateException(he);
    }
    catch( TypeMismatchException e ) {
        throw new IllegalArgumentException(e);
    }
    catch (HibernateException he) {
        throw getEntityManager().convert( he );
    }
}

/**
* { @inheritDoc }
*/
@SuppressWarnings({ "unchecked", "RedundantCast" })
public X getSingleResult() {
    try {
        final List<X> result = query.list();

        if ( result.size() == 0 ) {
            NoResultException nre = new NoResultException( "No entity found for query" );
            getEntityManager().handlePersistenceException( nre );
            throw nre;
        }
        else if ( result.size() > 1 ) {
            final Set<X> uniqueResult = new HashSet<X>(result);
            if ( uniqueResult.size() > 1 ) {
                NonUniqueResultException nure = new NonUniqueResultException( "result returns more than one elements" );
                getEntityManager().handlePersistenceException( nure );
                throw nure;
            }
        }
        else {
            return uniqueResult.iterator().next();
        }
    }
    else {
        return result.get( 0 );
    }
}
catch (QueryExecutionRequestException he) {
    throw new IllegalStateException(he);
}

```

```

    }
    catch( TypeMismatchException e ) {
        throw new IllegalArgumentException(e);
    }
    catch (HibernateException he) {
        throw getEntityManager().convert( he );
    }
}

public <T> TypedQuery<X> setParameter(Parameter<T> param, T value) {
    if ( ! parameters.contains( param ) ) {
        throw new IllegalArgumentException( "Specified parameter was not found in query" );
    }
    if ( param.getName() != null ) {
        // a named param, for not delegate out. Eventually delegate *into* this method...
        setParameter( param.getName(), value );
    }
    else {
        setParameter( param.getPosition(), value );
    }
    return this;
}

public TypedQuery<X> setParameter(Parameter<Date> param, Date value, TemporalType temporalType) {
    if ( ! parameters.contains( param ) ) {
        throw new IllegalArgumentException( "Specified parameter was not found in query" );
    }
    if ( param.getName() != null ) {
        // a named param, for not delegate out. Eventually delegate *into* this method...
        setParameter( param.getName(), value, temporalType );
    }
    else {
        setParameter( param.getPosition(), value, temporalType );
    }
    return this;
}

public TypedQuery<X> setParameter(Parameter<Calendar> param, Calendar value, TemporalType temporalType)
{
    if ( ! parameters.contains( param ) ) {
        throw new IllegalArgumentException( "Specified parameter was not found in query" );
    }
    if ( param.getName() != null ) {
        // a named param, for not delegate out. Eventually delegate *into* this method...
        setParameter( param.getName(), value, temporalType );
    }
    else {
        setParameter( param.getPosition(), value, temporalType );
    }
}

```

```

    }
    return this;
}

/**
 * {@inheritDoc}
 */
public TypedQuery<X> setParameter(String name, Object value) {
    try {
        if ( value instanceof Collection ) {
            query.setParameterList( name, (Collection) value );
        }
        else {
            query.setParameter( name, value );
        }
        registerParameterBinding( getParameter( name ), value );
        return this;
    }
    catch (QueryParameterException e) {
        throw new IllegalArgumentException( e );
    }
    catch (HibernateException he) {
        throw getEntityManager().convert( he );
    }
}

/**
 * {@inheritDoc}
 */
public TypedQuery<X> setParameter(String name, Date value, TemporalType temporalType) {
    try {
        if ( temporalType == DATE ) {
            query.setDate( name, value );
        }
        else if ( temporalType == TIME ) {
            query.setTime( name, value );
        }
        else if ( temporalType == TIMESTAMP ) {
            query.setTimestamp( name, value );
        }
        registerParameterBinding( getParameter( name ), value );
        return this;
    }
    catch (QueryParameterException e) {
        throw new IllegalArgumentException( e );
    }
    catch (HibernateException he) {
        throw getEntityManager().convert( he );
    }
}

```

```

    }
}

/**
 * {@inheritDoc}
 */
public TypedQuery<X> setParameter(String name, Calendar value, TemporalType temporalType) {
    try {
        if ( temporalType == DATE ) {
            query.setCalendarDate( name, value );
        }
        else if ( temporalType == TIME ) {
            throw new IllegalArgumentException( "not yet implemented" );
        }
        else if ( temporalType == TIMESTAMP ) {
            query.setCalendar( name, value );
        }
        registerParameterBinding( getParameter(name), value );
        return this;
    }
    catch (QueryParameterException e) {
        throw new IllegalArgumentException( e );
    }
    catch (HibernateException he) {
        throw getEntityManager().convert( he );
    }
}

/**
 * {@inheritDoc}
 */
public TypedQuery<X> setParameter(int position, Object value) {
    try {
        if ( isJpaPositionalParameter( position ) ) {
            this.setParameter( Integer.toString( position ), value );
        }
        else {
            query.setParameter( position - 1, value );
            registerParameterBinding( getParameter( position ), value );
        }
        return this;
    }
    catch (QueryParameterException e) {
        throw new IllegalArgumentException( e );
    }
    catch (HibernateException he) {
        throw getEntityManager().convert( he );
    }
}

```

```

}

private boolean isJpaPositionalParameter(int position) {
    return jpaPositionalIndices != null && jpaPositionalIndices.contains( position );
}

/**
 * {@inheritDoc}
 */
public TypedQuery<X> setParameter(int position, Date value, TemporalType temporalType) {
    try {
        if ( isJpaPositionalParameter( position ) ) {
            String name = Integer.toString( position );
            this.setParameter( name, value, temporalType );
        }
        else {
            if ( temporalType == DATE ) {
                query.setDate( position - 1, value );
            }
            else if ( temporalType == TIME ) {
                query.setTime( position - 1, value );
            }
            else if ( temporalType == TIMESTAMP ) {
                query.setTimestamp( position - 1, value );
            }
            registerParameterBinding( getParameter( position ), value );
        }
        return this;
    }
    catch (QueryParameterException e) {
        throw new IllegalArgumentException( e );
    }
    catch (HibernateException he) {
        throw getEntityManager().convert( he );
    }
}

/**
 * {@inheritDoc}
 */
public TypedQuery<X> setParameter(int position, Calendar value, TemporalType temporalType) {
    try {
        if ( isJpaPositionalParameter( position ) ) {
            String name = Integer.toString( position );
            this.setParameter( name, value, temporalType );
        }
        else {
            if ( temporalType == DATE ) {

```

```

        query.setCalendarDate( position - 1, value );
    }
    else if ( temporalType == TIME ) {
        throw new IllegalArgumentException( "not yet implemented" );
    }
    else if ( temporalType == TIMESTAMP ) {
        query.setCalendar( position - 1, value );
    }
    registerParameterBinding( getParameter( position ), value );
    }
    return this;
    }
    catch ( QueryParameterException e ) {
        throw new IllegalArgumentException( e );
    }
    catch ( HibernateException he ) {
        throw getEntityManager().convert( he );
    }
    }
}

/**
 * {@inheritDoc}
 */
public Set<Parameter<?>> getParameters() {
    return parameters;
}

/**
 * {@inheritDoc}
 */
public Parameter<?> getParameter( String name ) {
    if ( name == null ) {
        throw new IllegalArgumentException( "Name of parameter to locate cannot be null" );
    }
    for ( Parameter parameter : parameters ) {
        if ( name.equals( parameter.getName() ) ) {
            return parameter;
        }
    }
    throw new IllegalArgumentException( "Unable to locate parameter named [" + name + "]" );
}

/**
 * {@inheritDoc}
 */
public Parameter<?> getParameter( int position ) {
    if ( isJpaPositionalParameter( position ) ) {
        return getParameter( Integer.toString( position ) );
    }
}

```

```

    }
    else {
        for ( Parameter parameter : parameters ) {
            if ( parameter.getPosition() != null && position == parameter.getPosition() ) {
                return parameter;
            }
        }
        throw new IllegalArgumentException( "Unable to locate parameter with position [" + position + "]" );
    }
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public <T> Parameter<T> getParameter(String name, Class<T> type) {
    Parameter param = getParameter( name );
    if ( param.getParameterType() != null ) {
        // we were able to determine the expected type during analysis, so validate it here
        throw new IllegalArgumentException(
            "Parameter type [" + param.getParameterType().getName() +
            "] is not assignment compatible with requested type [" +
            type.getName() + "]"
        );
    }
    return param;
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public <T> Parameter<T> getParameter(int position, Class<T> type) {
    Parameter param = getParameter( position );
    if ( param.getParameterType() != null ) {
        // we were able to determine the expected type during analysis, so validate it here
        throw new IllegalArgumentException(
            "Parameter type [" + param.getParameterType().getName() +
            "] is not assignment compatible with requested type [" +
            type.getName() + "]"
        );
    }
    return param;
}

/**
 * {@inheritDoc}
 */

```

```

@SuppressWarnings({ "unchecked" })
public <T> T unwrap(Class<T> tClass) {
    if ( org.hibernate.Query.class.isAssignableFrom( tClass ) ) {
        return (T) query;
    }
    else {
        try {
            return (T) this;
        }
        catch ( ClassCastException cce ) {
            PersistenceException pe = new PersistenceException(
                "Unsupported unwrap target type [" + tClass.getName() + "]"
            );
            //It's probably against the spec to not mark the tx for rollback but it will be easier for people
            //getManager().handlePersistenceException( pe );
            throw pe;
        }
    }
}

```

```

private javax.persistence.LockModeType jpaLockMode = javax.persistence.LockModeType.NONE;

```

```

@Override
    @SuppressWarnings({ "unchecked" })
    public TypedQuery<X> setLockMode(javax.persistence.LockModeType lockModeType) {
        if ( ! getEntityManager().isTransactionInProgress() ) {
            throw new TransactionRequiredException( "no transaction is in progress" );
        }
        if ( ! canApplyLockModes() ) {
            throw new IllegalStateException( "Not a JPAQL/Criteria query" );
        }
        this.jpaLockMode = lockModeType;
        query.getLockOptions().setLockMode( LockModeTypeHelper.getLockMode( lockModeType ) );
        if ( getHints() != null && getHints().containsKey( AvailableSettings.LOCK_TIMEOUT ) ) {
            applyLockTimeout( ConfigurationHelper.getInteger( getHints().get( AvailableSettings.LOCK_TIMEOUT ) ) );
        }
        return this;
    }

```

```

@Override
    protected void applyLockTimeout(int timeout) {
        query.getLockOptions().setTimeout( timeout );
    }

```

```

@Override
    public javax.persistence.LockModeType getLockMode() {
        return jpaLockMode;
    }

```



```

}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb;

import java.io.IOException;
import java.io.InvalidObjectException;
import java.io.ObjectOutputStream;
import java.io.Serializable;
import java.util.Collections;
import java.util.HashMap;
import java.util.Iterator;
import java.util.Map;
import java.util.Properties;
import javax.persistence.Cache;
import javax.persistence.EntityManager;
import javax.persistence.EntityManagerFactory;
import javax.persistence.PersistenceContextType;
import javax.persistence.PersistenceUnitUtil;
import javax.persistence.criteria.CriteriaBuilder;
import javax.persistence.metamodel.Metamodel;
import javax.persistence.spi.LoadState;
import javax.persistence.spi.PersistenceUnitTransactionType;

import org.jboss.logging.Logger;

```

```

import org.hibernate.Hibernate;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.internal.EntityManagerFactoryRegistry;
import org.hibernate.ejb.metamodel.MetamodelImpl;
import org.hibernate.ejb.util.PersistenceUtilHelper;
import org.hibernate.engine.spi.SessionFactoryImplementor;
import org.hibernate.id.IdentifierGenerator;
import org.hibernate.id.UUIDGenerator;
import org.hibernate.internal.SessionFactoryImpl;
import org.hibernate.internal.util.config.ConfigurationHelper;
import org.hibernate.mapping.PersistentClass;
import org.hibernate.metadata.ClassMetadata;
import org.hibernate.service.ServiceRegistry;

/**
 * Actual Hibernate implementation of { @link javax.persistence.EntityManagerFactory }.
 *
 * @author Gavin King
 * @author Emmanuel Bernard
 * @author Steve Ebersole
 */
public class EntityManagerFactoryImpl implements HibernateEntityManagerFactory {
    private static final long serialVersionUID = 5423543L;
    private static final IdentifierGenerator UUID_GENERATOR =
        UUIDGenerator.buildSessionFactoryUniqueIdentifierGenerator();

    private static final Logger log = Logger.getLogger( EntityManagerFactoryImpl.class );

    private final transient SessionFactoryImpl sessionFactory;
    private final transient PersistenceUnitTransactionType transactionType;
    private final transient boolean discardOnClose;
    private final transient Class sessionInterceptorClass;
    private final transient CriteriaBuilderImpl criteriaBuilder;
    private final transient Metamodel metamodel;
    private final transient HibernatePersistenceUnitUtil util;
    private final transient Map<String, Object> properties;
    private final String entityManagerFactoryName;

    private final transient PersistenceUtilHelper.MetadataCache cache = new PersistenceUtilHelper.MetadataCache();

    @SuppressWarnings( "unchecked" )
    public EntityManagerFactoryImpl(
        PersistenceUnitTransactionType transactionType,
        boolean discardOnClose,
        Class sessionInterceptorClass,
        Configuration cfg,

```

```

    ServiceRegistry serviceRegistry,
    String persistenceUnitName) {
this.sessionFactory = (SessionFactoryImpl) cfg.buildSessionFactory( serviceRegistry );
this.transactionType = transactionType;
this.discardOnClose = discardOnClose;
this.sessionInterceptorClass = sessionInterceptorClass;
final Iterator<PersistentClass> classes = cfg.getClassMappings();
final JpaMetaModelPopulationSetting jpaMetaModelPopulationSetting =
determineJpaMetaModelPopulationSetting( cfg );
if ( JpaMetaModelPopulationSetting.DISABLED == jpaMetaModelPopulationSetting ) {
    this.metamodel = null;
}
else {
    this.metamodel = MetamodelImpl.buildMetamodel(
        classes,
        ( SessionFactoryImplementor ) sessionFactory,
        JpaMetaModelPopulationSetting.IGNORE_UNSUPPORTED == jpaMetaModelPopulationSetting
    );
}
this.criteriaBuilder = new CriteriaBuilderImpl( this );
this.util = new HibernatePersistenceUnitUtil( this );

HashMap<String, Object> props = new HashMap<String, Object>();
addAll( props, ( SessionFactoryImplementor ) sessionFactory ).getProperties() );
addAll( props, cfg.getProperties() );
maskOutSensitiveInformation( props );
this.properties = Collections.unmodifiableMap( props );
String entityManagerFactoryName =
(String)this.properties.get( AvailableSettings.ENTITY_MANAGER_FACTORY_NAME );
if ( entityManagerFactoryName == null ) {
    entityManagerFactoryName = persistenceUnitName;
}
if ( entityManagerFactoryName == null ) {
    entityManagerFactoryName = (String) UUID_GENERATOR.generate( null, null );
}
this.entityManagerFactoryName = entityManagerFactoryName;
EntityManagerFactoryRegistry.INSTANCE.addEntityManagerFactory( entityManagerFactoryName, this );
}

private enum JpaMetaModelPopulationSetting {
    ENABLED,
    DISABLED,
    IGNORE_UNSUPPORTED;

private static JpaMetaModelPopulationSetting parse( String setting ) {
    if ( "enabled".equalsIgnoreCase( setting ) ) {
        return ENABLED;
    }
}

```

```

else if ( "disabled".equalsIgnoreCase( setting ) ) {
    return DISABLED;
}
else {
    return IGNORE_UNSUPPORTED;
}
}
}

protected JpaMetaModelPopulationSetting determineJpaMetaModelPopulationSetting(Configuration cfg) {
    String setting = ConfigurationHelper.getString(
        AvailableSettings.JPA_METAMODEL_POPULATION,
        cfg.getProperties(),
        null
    );
    if ( setting == null ) {
        setting = ConfigurationHelper.getString( AvailableSettings.JPA_METAMODEL_GENERATION,
        cfg.getProperties(), null );
        if ( setting != null ) {
            log.infof(
                "Encountered deprecated setting [%s], use [%s] instead",
                AvailableSettings.JPA_METAMODEL_GENERATION,
                AvailableSettings.JPA_METAMODEL_POPULATION
            );
        }
    }
    return JpaMetaModelPopulationSetting.parse( setting );
}

private static void addAll(HashMap<String, Object> propertyMap, Properties properties) {
    for ( Map.Entry entry : properties.entrySet() ) {
        if ( String.class.isInstance( entry.getKey() ) ) {
            propertyMap.put( (String)entry.getKey(), entry.getValue() );
        }
    }
}

private void maskOutSensitiveInformation(HashMap<String, Object> props) {
    maskOutIfSet( props, AvailableSettings.JDBC_PASSWORD );
    maskOutIfSet( props, org.hibernate.cfg.AvailableSettings.PASS );
}

private void maskOutIfSet(HashMap<String, Object> props, String setting) {
    if ( props.containsKey( setting ) ) {
        props.put( setting, "*****" );
    }
}

```

```

public EntityManager createEntityManager() {
    return createEntityManager( null );
}

public EntityManager createEntityManager(Map map) {
    //TODO support discardOnClose, persistencecontexttype?, interceptor,
    return new EntityManagerImpl(
        this, PersistenceContextType.EXTENDED, transactionType,
        discardOnClose, sessionInterceptorClass, map
    );
}

public CriteriaBuilder getCriteriaBuilder() {
    return criteriaBuilder;
}

public Metamodel getMetamodel() {
    return metamodel;
}

public void close() {
    sessionFactory.close();
    EntityManagerFactoryRegistry.INSTANCE.removeEntityManagerFactory(entityManagerFactoryName, this);
}

public Map<String, Object> getProperties() {
    return properties;
}

public Cache getCache() {
    // TODO : cache the cache reference?
    if ( ! isOpen() ) {
        throw new IllegalStateException("EntityManagerFactory is closed");
    }
    return new JPACache( sessionFactory );
}

public PersistenceUnitUtil getPersistenceUnitUtil() {
    if ( ! isOpen() ) {
        throw new IllegalStateException("EntityManagerFactory is closed");
    }
    return util;
}

public boolean isOpen() {
    return ! sessionFactory.isClosed();
}

```

```

public SessionFactoryImpl getSessionFactory() {
    return sessionFactory;
}

public String getEntityManagerFactoryName() {
    return entityManagerFactoryName;
}

private static class JPACache implements Cache {
    private SessionFactory sessionFactory;

    private JPACache(SessionFactory sessionFactory) {
        this.sessionFactory = sessionFactory;
    }

    public boolean contains(Class entityClass, Object identifier) {
        return sessionFactory.getCache().containsEntity( entityClass, ( Serializable ) identifier );
    }

    public void evict(Class entityClass, Object identifier) {
        sessionFactory.getCache().evictEntity( entityClass, (Serializable) identifier );
    }

    public void evict(Class entityClass) {
        sessionFactory.getCache().evictEntityRegion( entityClass );
    }

    public void evictAll() {
        sessionFactory.getCache().evictEntityRegions();
        // TODO : if we want to allow an optional clearing of all cache data, the additional calls would be:
        // sessionFactory.getCache().evictCollectionRegions();
        // sessionFactory.getCache().evictQueryRegions();
    }
}

private static EntityManagerFactory getNamedEntityManagerFactory(String entityManagerFactoryName) throws
InvalidObjectException {
    Object result =
EntityManagerFactoryRegistry.INSTANCE.getNamedEntityManagerFactory(entityManagerFactoryName);

    if ( result == null ) {
        throw new InvalidObjectException( "could not resolve entity manager factory during entity manager deserialization
[name=" + entityManagerFactoryName + "]" );
    }

    return (EntityManagerFactory)result;
}

```

```

private void writeObject(ObjectOutputStream oos) throws IOException {
    if (entityManagerFactoryName == null) {
        throw new InvalidObjectException( "could not serialize entity manager factory with null
entityManagerFactoryName" );
    }
    oos.defaultWriteObject();
}

/**
 * After deserialization of an EntityManagerFactory, this is invoked to return the EntityManagerFactory instance
 * that is already in use rather than a cloned copy of the object.
 *
 * @return
 * @throws InvalidObjectException
 */
private Object readResolve() throws InvalidObjectException {
    return getNamedEntityManagerFactory(entityManagerFactoryName);
}

private static class HibernatePersistenceUnitUtil implements PersistenceUnitUtil, Serializable {
    private final HibernateEntityManagerFactory emf;
    private transient PersistenceUtilHelper.MetadataCache cache;

    private HibernatePersistenceUnitUtil(EntityManagerFactoryImpl emf) {
        this.emf = emf;
        this.cache = emf.cache;
    }

    public boolean isLoading(Object entity, String attributeName) {
        // added log message to help with HHH-7454, if state == LoadState.NOT_LOADED, returning true or false is not
        accurate.
        log.debug("PersistenceUnitUtil#isLoading is not always accurate; consider using EntityManager#contains instead");
        LoadState state = PersistenceUtilHelper.isLoadingWithoutReference( entity, attributeName, cache );
        if (state == LoadState.LOADED) {
            return true;
        }
        else if (state == LoadState.NOT_LOADED ) {
            return false;
        }
        else {
            return PersistenceUtilHelper.isLoadingWithReference( entity, attributeName, cache ) != LoadState.NOT_LOADED;
        }
    }

    public boolean isLoading(Object entity) {
        // added log message to help with HHH-7454, if state == LoadState.NOT_LOADED, returning true or false is not

```

accurate.

```
log.debug("PersistenceUtil#isLoading is not always accurate; consider using EntityManager#contains instead");
return PersistenceUtilHelper.isLoading( entity ) != LoadState.NOT_LOADED;
}
```

```
public Object getIdentifier(Object entity) {
    final Class entityClass = Hibernate.getClass( entity );
    final ClassMetadata classMetadata = emf.getSessionFactory().getClassMetadata( entityClass );
    if (classMetadata == null) {
        throw new IllegalArgumentException( entityClass + " is not an entity" );
    }
    //TODO does that work for @IdClass?
    return classMetadata.getIdentifier( entity );
}
}
}
/*
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 * along with this distribution; if not, write to:
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 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria;
import javax.persistence.TupleElement;

/**
 * TODO : javadoc
 *
 * @author Steve Ebersole
 */
public interface TupleElementImplementor<X> extends TupleElement<X> {
```



```

public ValueHandlerFactory.ValueHandler<X> getValueHandler();
}
/*
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 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria;
import javax.persistence.criteria.CollectionJoin;

/**
 * Specialization of {@link JoinImplementor} for {@link java.util.Collection} typed attribute joins
 *
 * @author Steve Ebersole
 */
public interface CollectionJoinImplementor<Z,X> extends JoinImplementor<Z,X>, CollectionJoin<Z,X> {
    /**
     * {@inheritDoc}
     * <p/>
     * Refined return type
     */
    public CollectionJoinImplementor<Z,X> correlateTo(CriteriaSubqueryImpl subquery);
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
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```

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*/
package org.hibernate.ejb.criteria;
import java.util.List;
import javax.persistence.criteria.Selection;

/**
 * TODO : javadoc
 *
 * @author Steve Ebersole
 */
public interface SelectionImplementor<X> extends TupleElementImplementor<X>, Selection<X> {
    public List<ValueHandlerFactory.ValueHandler> getValueHandlers();
}
/*
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```

```

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* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb.criteria;
import javax.persistence.criteria.ListJoin;

/**
 * Specialization of {@link JoinImplementor} for {@link java.util.List} typed attribute joins
 *
 * @author Steve Ebersole
 */
public interface ListJoinImplementor<Z,X> extends JoinImplementor<Z,X>, ListJoin<Z,X> {
/**
 * {@inheritDoc}
 * <p/>
 * Refined return type
 */
public ListJoinImplementor<Z,X> correlateTo(CriteriaSubqueryImpl subquery);
}
/**
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 *
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 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria;

import java.io.Serializable;
import java.util.List;
import java.util.Set;
import javax.persistence.criteria.AbstractQuery;

```

```

import javax.persistence.criteria.CollectionJoin;
import javax.persistence.criteria.Expression;
import javax.persistence.criteria.Join;
import javax.persistence.criteria.ListJoin;
import javax.persistence.criteria.MapJoin;
import javax.persistence.criteria.ParameterExpression;
import javax.persistence.criteria.Predicate;
import javax.persistence.criteria.Root;
import javax.persistence.criteria.SetJoin;
import javax.persistence.criteria.Subquery;
import javax.persistence.metamodel.EntityType;

import org.hibernate.ejb.criteria.expression.ExpressionImpl;
import org.hibernate.ejb.criteria.path.RootImpl;

/**
 * The Hibernate implementation of the JPA {@link Subquery} contract. Mostly a set of delegation to its internal
 * {@link QueryStructure}.
 *
 * @author Steve Ebersole
 */
public class CriteriaSubqueryImpl<T> extends ExpressionImpl<T> implements Subquery<T>, Serializable {
    private final AbstractQuery<?> parent;
    private final QueryStructure<T> queryStructure;

    public CriteriaSubqueryImpl(
        CriteriaBuilderImpl criteriaBuilder,
        Class<T> javaType,
        AbstractQuery<?> parent) {
        super( criteriaBuilder, javaType);
        this.parent = parent;
        this.queryStructure = new QueryStructure<T>( this, criteriaBuilder );
    }

    /**
     * {@inheritDoc}
     */
    public AbstractQuery<?> getParent() {
        return parent;
    }

    /**
     * {@inheritDoc}
     */
    public void registerParameters(ParameterRegistry registry) {
        for ( ParameterExpression param : queryStructure.getParameters() ) {
            registry.registerParameter( param );
        }
    }

```

```

}

/**
 * {@inheritDoc}
 */
public Class<T> getResultType() {
    return getJavaType();
}

// ROOTS ~~~~~

/**
 * {@inheritDoc}
 */
public Set<Root<?>> getRoots() {
    return queryStructure.getRoots();
}

/**
 * {@inheritDoc}
 */
public <X> Root<X> from(EntityType<X> entityType) {
    return queryStructure.from( entityType );
}

/**
 * {@inheritDoc}
 */
public <X> Root<X> from(Class<X> entityClass) {
    return queryStructure.from( entityClass );
}

// SELECTION ~~~~~

public Subquery<T> distinct(boolean applyDistinction) {
    queryStructure.setDistinct( applyDistinction );
    return this;
}

public boolean isDistinct() {
    return queryStructure.isDistinct();
}

public Expression<T> getSelection() {
    return (Expression<T>) queryStructure.getSelection();
}

```

```

public Subquery<T> select(Expression<T> expression) {
    queryStructure.setSelection( expression );
    return this;
}

// RESTRICTION ~~~~~

/**
 * {@inheritDoc}
 */
public Predicate getRestriction() {
    return queryStructure.getRestriction();
}

/**
 * {@inheritDoc}
 */
public Subquery<T> where(Expression<Boolean> expression) {
    queryStructure.setRestriction( criteriaBuilder().wrap( expression ) );
    return this;
}

/**
 * {@inheritDoc}
 */
public Subquery<T> where(Predicate... predicates) {
    // TODO : assuming this should be a conjunction, but the spec does not say specifically...
    queryStructure.setRestriction( criteriaBuilder().and( predicates ) );
    return this;
}

// GROUPING ~~~~~

/**
 * {@inheritDoc}
 */
public List<Expression<?>> getGroupList() {
    return queryStructure.getGroupings();
}

/**
 * {@inheritDoc}
 */
public Subquery<T> groupBy(Expression<?>... groupings) {

```

```

queryStructure.setGroupings( groupings );
return this;
}

/**
 * {@inheritDoc}
 */
public Subquery<T> groupBy(List<Expression<?>> groupings) {
    queryStructure.setGroupings( groupings );
    return this;
}

/**
 * {@inheritDoc}
 */
public Predicate getGroupRestriction() {
    return queryStructure.getHaving();
}

/**
 * {@inheritDoc}
 */
public Subquery<T> having(Expression<Boolean> expression) {
    queryStructure.setHaving( criteriaBuilder().wrap( expression ) );
    return this;
}

/**
 * {@inheritDoc}
 */
public Subquery<T> having(Predicate... predicates) {
    queryStructure.setHaving( criteriaBuilder().and( predicates ) );
    return this;
}

// CORRELATIONS
~~~~~

/**
 * {@inheritDoc}
 */
public Set<Join<?, ?>> getCorrelatedJoins() {
    return queryStructure.collectCorrelatedJoins();
}

/**

```

```

* { @inheritDoc }
*/
public <Y> Root<Y> correlate(Root<Y> source) {
    final RootImpl<Y> correlation = ( ( RootImpl<Y> ) source ).correlateTo( this );
    queryStructure.addCorrelationRoot( correlation );
    return correlation;
}

/**
* { @inheritDoc }
*/
public <X, Y> Join<X, Y> correlate(Join<X, Y> source) {
    final JoinImplementor<X,Y> correlation = ( (JoinImplementor<X,Y>) source ).correlateTo( this );
    queryStructure.addCorrelationRoot( correlation );
    return correlation;
}

/**
* { @inheritDoc }
*/
public <X, Y> CollectionJoin<X, Y> correlate(CollectionJoin<X, Y> source) {
    final CollectionJoinImplementor<X,Y> correlation = ( (CollectionJoinImplementor<X,Y>) source ).correlateTo(
this );
    queryStructure.addCorrelationRoot( correlation );
    return correlation;
}

/**
* { @inheritDoc }
*/
public <X, Y> SetJoin<X, Y> correlate(SetJoin<X, Y> source) {
    final SetJoinImplementor<X,Y> correlation = ( (SetJoinImplementor<X,Y>) source ).correlateTo( this );
    queryStructure.addCorrelationRoot( correlation );
    return correlation;
}

/**
* { @inheritDoc }
*/
public <X, Y> ListJoin<X, Y> correlate(ListJoin<X, Y> source) {
    final ListJoinImplementor<X,Y> correlation = ( (ListJoinImplementor<X,Y>) source ).correlateTo( this );
    queryStructure.addCorrelationRoot( correlation );
    return correlation;
}

/**
* { @inheritDoc }
*/

```



```

public <X, K, V> MapJoin<X, K, V> correlate(MapJoin<X, K, V> source) {
    final MapJoinImplementor<X, K, V> correlation = ( (MapJoinImplementor<X, K, V>) source ).correlateTo( this );
    queryStructure.addCorrelationRoot( correlation );
    return correlation;
}

/**
 * {@inheritDoc}
 */
public <U> Subquery<U> subquery(Class<U> subqueryType) {
    return queryStructure.subquery( subqueryType );
}

public String render(CriteriaQueryCompiler.RenderingContext renderingContext) {
    StringBuilder subqueryBuffer = new StringBuilder( "(" );
    queryStructure.render( subqueryBuffer, renderingContext );
    subqueryBuffer.append( ')' );
    return subqueryBuffer.toString();
}

public String renderProjection(CriteriaQueryCompiler.RenderingContext renderingContext) {
    throw new IllegalStateException( "Subquery cannot occur in select clause" );
}
}
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 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria;

```

```

import javax.persistence.criteria.From;

/**
 * Implementation contract for the JPA { @link From } interface.
 *
 * @author Steve Ebersole
 */
public interface FromImplementor<Z,X> extends PathImplementor<X>, From<Z,X> {
    public void prepareAlias(CriteriaQueryCompiler.RenderingContext renderingContext);
    public String renderTableExpression(CriteriaQueryCompiler.RenderingContext renderingContext);

    public FromImplementor<Z,X> correlateTo(CriteriaSubqueryImpl subquery);
    public void prepareCorrelationDelegate(FromImplementor<Z,X> parent);
    public FromImplementor<Z, X> getCorrelationParent();
}
/**
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 * along with this distribution; if not, write to:
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 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria;
import javax.persistence.criteria.Fetch;
import javax.persistence.criteria.Join;

/**
 * Consolidates the { @link Join } and { @link Fetch } hierarchies since that is how we implement them.
 * This allows us to treat them polymorphically.
 *
 * @author Steve Ebersole

```

```

*/
public interface JoinImplementor<Z,X> extends Join<Z,X>, Fetch<Z,X>, FromImplementor<Z,X> {
/**
 * { @inheritDoc }
 * <p/>
 * Refined return type
 */
public JoinImplementor<Z,X> correlateTo(CriteriaSubqueryImpl subquery);
}
/*
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 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria;

/**
 * Represents an illegal attempt to dereference from a { @link #getPathSource() path source } which
 * cannot be dereferenced.
 *
 * @author Steve Ebersole
 */
public class IllegalDereferenceException extends RuntimeException {
private final PathSource pathSource;

public IllegalDereferenceException(PathSource pathSource) {
super( "Illegal attempt to dereference path source [" + pathSource.getPathIdentifier() + "]" );
this.pathSource = pathSource;
}
}

```

```

public PathSource getPathSource() {
    return pathSource;
}
}
/*
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* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb.criteria;
import javax.persistence.criteria.Path;
import javax.persistence.metamodel.Attribute;

/**
* Implementation contract for the JPA {@link Path} interface.
*
* @author Steve Ebersole
*/
public interface PathImplementor<X> extends ExpressionImplementor<X>, Path<X>, PathSource<X>, Renderable
{
/**
* Retrieve reference to the attribute this path represents.
*
* @return The metamodel attribute.
*/
public Attribute<?, ?> getAttribute();
}
/*
* Hibernate, Relational Persistence for Idiomatic Java

```

```

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* Free Software Foundation, Inc.
* 51 Franklin Street, Fifth Floor
* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb.criteria;

```

```

import java.io.Serializable;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.Set;
import javax.persistence.Tuple;
import javax.persistence.criteria.CriteriaQuery;
import javax.persistence.criteria.Expression;
import javax.persistence.criteria.Order;
import javax.persistence.criteria.ParameterExpression;
import javax.persistence.criteria.Predicate;
import javax.persistence.criteria.Root;
import javax.persistence.criteria.Selection;
import javax.persistence.criteria.Subquery;
import javax.persistence.metamodel.EntityType;

import org.hibernate.ejb.HibernateEntityManagerImplementor;
import org.hibernate.type.Type;

```

```

/**
 * The Hibernate implementation of the JPA { @link CriteriaQuery } contract. Mostly a set of delegation to its
 * internal { @link QueryStructure }.
 *
 * @author Steve Ebersole
 */

```

```

public class CriteriaQueryImpl<T> extends AbstractNode implements CriteriaQuery<T>, Serializable {
    private final Class<T> returnType;

    private final QueryStructure<T> queryStructure;
    private List<Order> orderSpecs = Collections.emptyList();

    public CriteriaQueryImpl(
        CriteriaBuilderImpl criteriaBuilder,
        Class<T> returnType) {
        super( criteriaBuilder );
        this.returnType = returnType;
        this.queryStructure = new QueryStructure<T>( this, criteriaBuilder );
    }

    /**
     * {@inheritDoc}
     */
    public Class<T> getResultType() {
        return returnType;
    }

    // SELECTION ~~~~~

    /**
     * {@inheritDoc}
     */
    public CriteriaQuery<T> distinct(boolean applyDistinction) {
        queryStructure.setDistinct( applyDistinction );
        return this;
    }

    /**
     * {@inheritDoc}
     */
    public boolean isDistinct() {
        return queryStructure.isDistinct();
    }

    /**
     * {@inheritDoc}
     */
    @SuppressWarnings({ "unchecked" })
    public Selection<T> getSelection() {
        return ( Selection<T> ) queryStructure.getSelection();
    }
}

```

```

public void applySelection(Selection<? extends T> selection) {
    queryStructure.setSelection( selection );
}

/**
 * {@inheritDoc}
 */
public CriteriaQuery<T> select(Selection<? extends T> selection) {
    applySelection( selection );
    return this;
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public CriteriaQuery<T> multiselect(Selection<?>... selections) {
    return multiselect( Arrays.asList( selections ) );
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public CriteriaQuery<T> multiselect(List<Selection<?>> selections) {
    final Selection<? extends T> selection;

    if ( Tuple.class.isAssignableFrom( getResultType() ) ) {
        selection = ( Selection<? extends T> ) criteriaBuilder().tuple( selections );
    }
    else if ( getResultType().isArray() ) {
        selection = ( Selection<? extends T> ) criteriaBuilder().array(
            ( Class<? extends Object[]> ) getResultType(),
            selections
        );
    }
    else if ( Object.class.equals( getResultType() ) ) {
        switch ( selections.size() ) {
            case 0: {
                throw new IllegalArgumentException(
                    "empty selections passed to criteria query typed as Object"
                );
            }
            case 1: {
                selection = ( Selection<? extends T> ) selections.get( 0 );
                break;
            }
            default: {

```

```

        selection = ( Selection<? extends T> ) criteriaBuilder().array( selections );
    }
}
else {
    selection = criteriaBuilder().construct( getResultType(), selections );
}
applySelection( selection );
return this;
}

// ROOTS ~~~~~

/**
 * {@inheritDoc}
 */
public Set<Root<?>> getRoots() {
    return queryStructure.getRoots();
}

/**
 * {@inheritDoc}
 */
public <X> Root<X> from(EntityType<X> entityType) {
    return queryStructure.from( entityType );
}

/**
 * {@inheritDoc}
 */
public <X> Root<X> from(Class<X> entityClass) {
    return queryStructure.from( entityClass );
}

// RESTRICTION ~~~~~

/**
 * {@inheritDoc}
 */
public Predicate getRestriction() {
    return queryStructure.getRestriction();
}

/**
 * {@inheritDoc}
 */

```



```

public CriteriaQuery<T> where(Expression<Boolean> expression) {
    queryStructure.setRestriction( criteriaBuilder().wrap( expression ) );
    return this;
}

/**
 * {@inheritDoc}
 */
public CriteriaQuery<T> where(Predicate... predicates) {
    // TODO : assuming this should be a conjunction, but the spec does not say specifically...
    queryStructure.setRestriction( criteriaBuilder().and( predicates ) );
    return this;
}

// GROUPING ~~~~~

/**
 * {@inheritDoc}
 */
public List<Expression<?>> getGroupList() {
    return queryStructure.getGroupings();
}

/**
 * {@inheritDoc}
 */
public CriteriaQuery<T> groupBy(Expression<?>... groupings) {
    queryStructure.setGroupings( groupings );
    return this;
}

public CriteriaQuery<T> groupBy(List<Expression<?>> groupings) {
    queryStructure.setGroupings( groupings );
    return this;
}

/**
 * {@inheritDoc}
 */
public Predicate getGroupRestriction() {
    return queryStructure.getHaving();
}

/**
 * {@inheritDoc}
 */
public CriteriaQuery<T> having(Expression<Boolean> expression) {

```

```

queryStructure.setHaving( criteriaBuilder().wrap( expression ) );
return this;
}

/**
 * {@inheritDoc}
 */
public CriteriaQuery<T> having(Predicate... predicates) {
queryStructure.setHaving( criteriaBuilder().and( predicates ) );
return this;
}

// ORDERING ~~~~~

/**
 * {@inheritDoc}
 */
public List<Order> getOrderList() {
return orderSpecs;
}

/**
 * {@inheritDoc}
 */
public CriteriaQuery<T> orderBy(Order... orders) {
if ( orders != null && orders.length > 0 ) {
orderSpecs = Arrays.asList( orders );
}
else {
orderSpecs = Collections.emptyList();
}
return this;
}

/**
 * {@inheritDoc}
 */
public CriteriaQuery<T> orderBy(List<Order> orders) {
orderSpecs = orders;
return this;
}

/**
 * {@inheritDoc}
 */
public Set<ParameterExpression<?>> getParameters() {
return queryStructure.getParameters();
}

```

```

}

/**
 * {@inheritDoc}
 */
public <U> Subquery<U> subquery(Class<U> subqueryType) {
    return queryStructure.subquery( subqueryType );
}

public void validate() {
    // getRoots() is explicitly supposed to return empty if none defined, no need to check for null
    if ( getRoots().isEmpty() ) {
        throw new IllegalStateException( "No criteria query roots were specified" );
    }

    // if there is not an explicit selection, there is an *implicit* selection of the root entity provided only
    // a single query root was defined.
    if ( getSelection() == null && !hasImplicitSelection() ) {
        throw new IllegalStateException( "No explicit selection and an implicit one could not be determined" );
    }
}

/**
 * If no explicit selection was defined, we have a condition called an implicit selection if the query specified
 * a single {@link Root} and the java type of that {@link Root} root's model is the same as this criteria's
 * {@link #getResultType() result type}.
 *
 * @return True if there is an explicit selection; false otherwise.
 */
private boolean hasImplicitSelection() {
    if ( getRoots().size() != 1 ) {
        return false;
    }

    Root root = getRoots().iterator().next();
    Class<?> javaType = root.getModel().getJavaType();
    if ( javaType != null && javaType != returnType ) {
        return false;
    }

    // if we get here, the query defined no selection but defined a single root of the same type as the
    // criteria query return, so we use that as the implicit selection
    //
    // todo : should we put an implicit marker in the selection to this fact to make later processing easier?
    return true;
}

public CriteriaQueryCompiler.RenderedCriteriaQuery render(CriteriaQueryCompiler.RenderingContext

```

```

renderingContext) {
    final StringBuilder jpaqlQuery = new StringBuilder();

    queryStructure.render( jpaqlQuery, renderingContext );

    if ( ! getOrderList().isEmpty() ) {
        jpaqlQuery.append( " order by " );
        String sep = "";
        for ( Order orderSpec : getOrderList() ) {
            jpaqlQuery.append( sep )
                .append( ( ( Renderable ) orderSpec.getExpression() ).render( renderingContext ) )
                .append( orderSpec.isAscending() ? " asc" : " desc" );
            sep = ", ";
        }
    }

    return new CriteriaQueryCompiler.RenderedCriteriaQuery() {
        public String getQueryString() {
            return jpaqlQuery.toString();
        }
    }

    @SuppressWarnings({ "unchecked" })
    public List<ValueHandlerFactory.ValueHandler> getValueHandlers() {
        SelectionImplementor selection = (SelectionImplementor) queryStructure.getSelection();
        return selection == null
            ? null
            : selection.getValueHandlers();
    }

    public HibernateEntityManagerImplementor.Options.ResultMetadataValidator getResultMetadataValidator() {
        return new HibernateEntityManagerImplementor.Options.ResultMetadataValidator() {
            public void validate(Type[] returnTypes) {
                SelectionImplementor selection = (SelectionImplementor) queryStructure.getSelection();
                if ( selection != null ) {
                    if ( selection.isCompoundSelection() ) {
                        if ( returnTypes.length != selection.getCompoundSelectionItems().size() ) {
                            throw new IllegalStateException(
                                "Number of return values [" + returnTypes.length +
                                "] did not match expected [" +
                                selection.getCompoundSelectionItems().size() + "]"
                            );
                        }
                    }
                }
            }
            else {
                if ( returnTypes.length > 1 ) {
                    throw new IllegalStateException(
                        "Number of return values [" + returnTypes.length +
                        "] did not match expected [1]"
                    );
                }
            }
        };
    }
}

```

```

    );
    }
    }
    }
    };
    }
};
}
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria;

import java.io.Serializable;
import java.math.BigDecimal;
import java.math.BigInteger;
import java.util.Arrays;
import java.util.Collection;
import java.util.List;
import java.util.Map;
import java.util.Set;
import javax.persistence.Tuple;
import javax.persistence.criteria.CompoundSelection;
import javax.persistence.criteria.CriteriaBuilder;
import javax.persistence.criteria.CriteriaQuery;
import javax.persistence.criteria.Expression;

```

```

import javax.persistence.criteria.Order;
import javax.persistence.criteria.ParameterExpression;
import javax.persistence.criteria.Predicate;
import javax.persistence.criteria.Selection;
import javax.persistence.criteria.Subquery;

import org.hibernate.ejb.EntityManagerFactoryImpl;
import org.hibernate.ejb.criteria.expression.BinaryArithmeticOperation;
import org.hibernate.ejb.criteria.expression.CoalesceExpression;
import org.hibernate.ejb.criteria.expression.CompoundSelectionImpl;
import org.hibernate.ejb.criteria.expression.ConcatExpression;
import org.hibernate.ejb.criteria.expression.LiteralExpression;
import org.hibernate.ejb.criteria.expression.NullLiteralExpression;
import org.hibernate.ejb.criteria.expression.NullifExpression;
import org.hibernate.ejb.criteria.expression.ParameterExpressionImpl;
import org.hibernate.ejb.criteria.expression.SearchedCaseExpression;
import org.hibernate.ejb.criteria.expression.SimpleCaseExpression;
import org.hibernate.ejb.criteria.expression.SizeOfCollectionExpression;
import org.hibernate.ejb.criteria.expression.SubqueryComparisonModifierExpression;
import org.hibernate.ejb.criteria.expression.UnaryArithmeticOperation;
import org.hibernate.ejb.criteria.expression.function.AbsFunction;
import org.hibernate.ejb.criteria.expression.function.AggregationFunction;
import org.hibernate.ejb.criteria.expression.function.BasicFunctionExpression;
import org.hibernate.ejb.criteria.expression.function.CurrentDateFunction;
import org.hibernate.ejb.criteria.expression.function.CurrentTimeFunction;
import org.hibernate.ejb.criteria.expression.function.CurrentTimestampFunction;
import org.hibernate.ejb.criteria.expression.function.LengthFunction;
import org.hibernate.ejb.criteria.expression.function.LocateFunction;
import org.hibernate.ejb.criteria.expression.function.LowerFunction;
import org.hibernate.ejb.criteria.expression.function.ParameterizedFunctionExpression;
import org.hibernate.ejb.criteria.expression.function.SqrtFunction;
import org.hibernate.ejb.criteria.expression.function.SubstringFunction;
import org.hibernate.ejb.criteria.expression.function.TrimFunction;
import org.hibernate.ejb.criteria.expression.function.UpperFunction;
import org.hibernate.ejb.criteria.path.PluralAttributePath;
import org.hibernate.ejb.criteria.predicate.BetweenPredicate;
import org.hibernate.ejb.criteria.predicate.BooleanAssertionPredicate;
import org.hibernate.ejb.criteria.predicate.BooleanExpressionPredicate;
import org.hibernate.ejb.criteria.predicate.BooleanStaticAssertionPredicate;
import org.hibernate.ejb.criteria.predicate.ComparisonPredicate;
import org.hibernate.ejb.criteria.predicate.ComparisonPredicate.ComparisonOperator;
import org.hibernate.ejb.criteria.predicate.CompoundPredicate;
import org.hibernate.ejb.criteria.predicate.ExistsPredicate;
import org.hibernate.ejb.criteria.predicate.InPredicate;
import org.hibernate.ejb.criteria.predicate.IsEmptyPredicate;
import org.hibernate.ejb.criteria.predicate.LikePredicate;
import org.hibernate.ejb.criteria.predicate.MemberOfPredicate;
import org.hibernate.ejb.criteria.predicate.NullnessPredicate;

```

```

/**
 * Hibernate implementation of the JPA {@link CriteriaBuilder} contract.
 *
 * @author Steve Ebersole
 */
public class CriteriaBuilderImpl implements CriteriaBuilder, Serializable {
    private final EntityManagerFactoryImpl entityManagerFactory;

    public CriteriaBuilderImpl(EntityManagerFactoryImpl entityManagerFactory) {
        this.entityManagerFactory = entityManagerFactory;
    }

    /**
     * Provides protected access to the underlying {@link EntityManagerFactoryImpl}.
     *
     * @return The underlying {@link EntityManagerFactoryImpl}
     */
    public EntityManagerFactoryImpl getEntityManagerFactory() {
        return entityManagerFactory;
    }

    /**
     * {@inheritDoc}
     */
    public CriteriaQuery<Object> createQuery() {
        return new CriteriaQueryImpl<Object>( this, Object.class );
    }

    /**
     * {@inheritDoc}
     */
    public <T> CriteriaQuery<T> createQuery(Class<T> resultClass) {
        return new CriteriaQueryImpl<T>( this, resultClass );
    }

    /**
     * {@inheritDoc}
     */
    public CriteriaQuery<Tuple> createTupleQuery() {
        return new CriteriaQueryImpl<Tuple>( this, Tuple.class );
    }

    /**
     * Package-protected method to centralize checking of criteria query
     * multiselects as defined by the
     * {@link CriteriaQuery#multiselect(List)} method.
     *

```

```

* @param selections The selection varargs to check
*
* @throws IllegalArgumentException If, as per
* { @link CriteriaQuery#multiselect(List) } documentation,
* <i>&quot;An argument to the multiselect method must not be a tuple-
* or array-valued compound selection item.&quot;;</i>
*/
void checkMultiselect(List<Selection<?>> selections) {
for ( Selection<?> selection : selections ) {
if ( selection.isCompoundSelection() ) {
if ( selection.getJavaType().isArray() ) {
throw new IllegalArgumentException(
    "multiselect selections cannot contain " +
    "compound array-valued elements"
);
}
if ( Tuple.class.isAssignableFrom( selection.getJavaType() ) ) {
throw new IllegalArgumentException(
    "multiselect selections cannot contain " +
    "compound tuple-valued elements"
);
}
}
}
}

/**
* { @inheritDoc }
*/
public CompoundSelection<Tuple> tuple(Selection<?>... selections) {
return tuple( Arrays.asList( selections ) );
}

/**
* Version of { @link #tuple(Selection[]) } taking a list.
*
* @param selections List of selections.
*
* @return The tuple compound selection
*/
public CompoundSelection<Tuple> tuple(List<Selection<?>> selections) {
checkMultiselect( selections );
return new CompoundSelectionImpl<Tuple>( this, Tuple.class, selections );
}

/**
* { @inheritDoc }
*/

```



```

public CompoundSelection<Object[]> array(Selection<?>... selections) {
    return array( Arrays.asList( selections ) );
}

/**
 * Version of { @link #array(Selection[])} taking a list of selections.
 *
 * @param selections List of selections.
 *
 * @return The array compound selection
 */
public CompoundSelection<Object[]> array(List<Selection<?>> selections) {
    return array( Object[].class, selections );
}

/**
 * Version of { @link #array(Selection[])} taking a list of selections,
 * as well as the type of array.
 *
 * @param type The type of array
 * @param selections List of selections.
 *
 * @return The array compound selection
 */
public <Y> CompoundSelection<Y> array(Class<Y> type, List<Selection<?>> selections) {
    checkMultiselect( selections );
    return new CompoundSelectionImpl<Y>( this, type, selections );
}

/**
 * { @inheritDoc }
 */
public <Y> CompoundSelection<Y> construct(Class<Y> result, Selection<?>... selections) {
    return construct( result, Arrays.asList( selections ) );
}

/**
 * Version of { @link #construct(Class,Selection[])} taking the
 * to-be-constructed type as well as a list of selections.
 *
 * @param result The result class to be constructed.
 * @param selections The selections to use in the constructor call.
 *
 * @return The <b>view</b> compound selection.
 */
public <Y> CompoundSelection<Y> construct(Class<Y> result, List<Selection<?>> selections) {
    checkMultiselect( selections );
    return new CompoundSelectionImpl<Y>( this, result, selections );
}

```

```

}

// ordering ~~~~~

/**
 * {@inheritDoc}
 */
public Order asc(Expression<?> x) {
    return new OrderImpl( x, true );
}

/**
 * {@inheritDoc}
 */
public Order desc(Expression<?> x) {
    return new OrderImpl( x, false );
}

// predicates ~~~~~

public Predicate wrap(Expression<Boolean> expression) {
    if ( Predicate.class.isInstance( expression ) ) {
        return ( Predicate ) expression ;
    }
    else if ( PathImplementor.class.isInstance( expression ) ) {
        return new BooleanAssertionPredicate( this, expression, Boolean.TRUE );
    }
    else {
        return new BooleanExpressionPredicate( this, expression );
    }
}

/**
 * {@inheritDoc}
 */
public Predicate not(Expression<Boolean> expression) {
    return wrap( expression ).not();
}

/**
 * {@inheritDoc}
 */
public Predicate and(Expression<Boolean> x, Expression<Boolean> y) {
    return new CompoundPredicate( this, Predicate.BooleanOperator.AND, x, y );
}

```

```

/**
 * {@inheritDoc}
 */
public Predicate or(Expression<Boolean> x, Expression<Boolean> y) {
    return new CompoundPredicate( this, Predicate.BooleanOperator.OR, x, y );
}

/**
 * {@inheritDoc}
 */
public Predicate and(Predicate... restrictions) {
    return new CompoundPredicate( this, Predicate.BooleanOperator.AND, restrictions );
}

/**
 * {@inheritDoc}
 */
public Predicate or(Predicate... restrictions) {
    return new CompoundPredicate( this, Predicate.BooleanOperator.OR, restrictions );
}

/**
 * {@inheritDoc}
 */
public Predicate conjunction() {
    return new CompoundPredicate( this, Predicate.BooleanOperator.AND );
}

/**
 * {@inheritDoc}
 */
public Predicate disjunction() {
    return new CompoundPredicate( this, Predicate.BooleanOperator.OR );
}

/**
 * {@inheritDoc}
 */
public Predicate isTrue(Expression<Boolean> expression) {
    if ( CompoundPredicate.class.isInstance( expression ) ) {
        final CompoundPredicate predicate = (CompoundPredicate) expression;
        if ( predicate.getExpressions().size() == 0 ) {
            return new BooleanStaticAssertionPredicate(
                this,
                predicate.getOperator() == Predicate.BooleanOperator.AND
            );
        }
    }
    return predicate;
}

```

```

    }
    else if ( Predicate.class.isInstance( expression ) ) {
        return (Predicate) expression;
    }
    return new BooleanAssertionPredicate( this, expression, Boolean.TRUE );
}

/**
 * {@inheritDoc}
 */
public Predicate isFalse(Expression<Boolean> expression) {
    if ( CompoundPredicate.class.isInstance( expression ) ) {
        final CompoundPredicate predicate = (CompoundPredicate) expression;
        if ( predicate.getExpressions().size() == 0 ) {
            return new BooleanStaticAssertionPredicate(
                this,
                predicate.getOperator() == Predicate.BooleanOperator.OR
            );
        }
        predicate.not();
        return predicate;
    }
    else if ( Predicate.class.isInstance( expression ) ) {
        final Predicate predicate = (Predicate) expression;
        predicate.not();
        return predicate;
    }
    return new BooleanAssertionPredicate( this, expression, Boolean.FALSE );
}

/**s
 * {@inheritDoc}
 */
public Predicate isNull(Expression<?> x) {
    return new NullnessPredicate( this, x );
}

/**
 * {@inheritDoc}
 */
public Predicate isNotNull(Expression<?> x) {
    return isNull( x ).not();
}

/**
 * {@inheritDoc}
 */
public Predicate equal(Expression<?> x, Expression<?> y) {

```

```

//noinspection SuspiciousNameCombination
return new ComparisonPredicate( this, ComparisonOperator.EQUAL, x, y );
}

/**
 * {@inheritDoc}
 */
public Predicate notEqual(Expression<?> x, Expression<?> y) {
//noinspection SuspiciousNameCombination
return new ComparisonPredicate( this, ComparisonOperator.NOT_EQUAL, x, y );
}

/**
 * {@inheritDoc}
 */
public Predicate equal(Expression<?> x, Object y) {
//noinspection SuspiciousNameCombination
return new ComparisonPredicate( this, ComparisonOperator.EQUAL, x, y );
}

/**
 * {@inheritDoc}
 */
public Predicate notEqual(Expression<?> x, Object y) {
//noinspection SuspiciousNameCombination
return new ComparisonPredicate( this, ComparisonOperator.NOT_EQUAL, x, y );
}

/**
 * {@inheritDoc}
 */
public <Y extends Comparable<? super Y>> Predicate greaterThan(Expression<? extends Y> x, Expression<?
extends Y> y) {
//noinspection SuspiciousNameCombination
return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN, x, y );
}

/**
 * {@inheritDoc}
 */
public <Y extends Comparable<? super Y>> Predicate lessThan(
    Expression<? extends Y> x,
    Expression<? extends Y> y) {
//noinspection SuspiciousNameCombination
return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN, x, y );
}

/**

```

```

* {@inheritDoc}
*/
public <Y extends Comparable<? super Y>> Predicate greaterThanOrEqualTo(
    Expression<? extends Y> x,
    Expression<? extends Y> y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN_OR_EQUAL, x, y );
}

/**
* {@inheritDoc}
*/
public <Y extends Comparable<? super Y>> Predicate lessThanOrEqualTo(
    Expression<? extends Y> x,
    Expression<? extends Y> y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN_OR_EQUAL, x, y );
}

/**
* {@inheritDoc}
*/
public <Y extends Comparable<? super Y>> Predicate greaterThan(
    Expression<? extends Y> x,
    Y y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN, x, y );
}

/**
* {@inheritDoc}
*/
public <Y extends Comparable<? super Y>> Predicate lessThan(
    Expression<? extends Y> x,
    Y y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN, x, y );
}

/**
* {@inheritDoc}
*/
public <Y extends Comparable<? super Y>> Predicate greaterThanOrEqualTo(
    Expression<? extends Y> x,
    Y y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN_OR_EQUAL, x, y );
}

```

```

/**
 * {@inheritDoc}
 */
public<Y extends Comparable<? super Y>> Predicate lessThanOrEqualTo(
    Expression<? extends Y> x,
    Y y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN_OR_EQUAL, x, y );
}

/**
 * {@inheritDoc}
 */
public Predicate gt(Expression<? extends Number> x, Expression<? extends Number> y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN, x, y );
}

/**
 * {@inheritDoc}
 */
public Predicate lt(Expression<? extends Number> x, Expression<? extends Number> y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN, x, y );
}

/**
 * {@inheritDoc}
 */
public Predicate ge(Expression<? extends Number> x, Expression<? extends Number> y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN_OR_EQUAL, x, y );
}

/**
 * {@inheritDoc}
 */
public Predicate le(Expression<? extends Number> x, Expression<? extends Number> y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN_OR_EQUAL, x, y );
}

/**
 * {@inheritDoc}
 */
public Predicate gt(Expression<? extends Number> x, Number y) {
    //noinspection SuspiciousNameCombination

```

```

return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN, x, y );
}

/**
 * {@inheritDoc}
 */
public Predicate lt(Expression<? extends Number> x, Number y) {
//noinspection SuspiciousNameCombination
return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN, x, y );
}

/**
 * {@inheritDoc}
 */
public Predicate ge(Expression<? extends Number> x, Number y) {
//noinspection SuspiciousNameCombination
return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN_OR_EQUAL, x, y );
}

/**
 * {@inheritDoc}
 */
public Predicate le(Expression<? extends Number> x, Number y) {
//noinspection SuspiciousNameCombination
return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN_OR_EQUAL, x, y );
}

/**
 * {@inheritDoc}
 */
public <Y extends Comparable<? super Y>> Predicate between(
    Expression<? extends Y> expression,
    Y lowerBound,
    Y upperBound) {
return new BetweenPredicate<Y>( this, expression, lowerBound, upperBound );
}

/**
 * {@inheritDoc}
 */
public <Y extends Comparable<? super Y>> Predicate between(
    Expression<? extends Y> expression,
    Expression<? extends Y> lowerBound,
    Expression<? extends Y> upperBound) {
return new BetweenPredicate<Y>( this, expression, lowerBound, upperBound );
}

/**

```



```

* {@inheritDoc}
*/
public <T> In<T> in(Expression<? extends T> expression) {
    return new InPredicate<T>( this, expression );
}

public <T> In<T> in(Expression<? extends T> expression, Expression<? extends T>... values) {
    return new InPredicate<T>( this, expression, values );
}

public <T> In<T> in(Expression<? extends T> expression, T... values) {
    return new InPredicate<T>( this, expression, values );
}

public <T> In<T> in(Expression<? extends T> expression, Collection<T> values) {
    return new InPredicate<T>( this, expression, values );
}

public Predicate like(Expression<String> matchExpression, Expression<String> pattern) {
    return new LikePredicate( this, matchExpression, pattern );
}

public Predicate like(Expression<String> matchExpression, Expression<String> pattern, Expression<Character>
escapeCharacter) {
    return new LikePredicate( this, matchExpression, pattern, escapeCharacter );
}

public Predicate like(Expression<String> matchExpression, Expression<String> pattern, char escapeCharacter) {
    return new LikePredicate( this, matchExpression, pattern, escapeCharacter );
}

public Predicate like(Expression<String> matchExpression, String pattern) {
    return new LikePredicate( this, matchExpression, pattern );
}

public Predicate like(Expression<String> matchExpression, String pattern, Expression<Character> escapeCharacter)
{
    return new LikePredicate( this, matchExpression, pattern, escapeCharacter );
}

public Predicate like(Expression<String> matchExpression, String pattern, char escapeCharacter) {
    return new LikePredicate( this, matchExpression, pattern, escapeCharacter );
}

public Predicate notLike(Expression<String> matchExpression, Expression<String> pattern) {
    return like( matchExpression, pattern ).not();
}

```

```

public Predicate notLike(Expression<String> matchExpression, Expression<String> pattern,
Expression<Character> escapeCharacter) {
    return like( matchExpression, pattern, escapeCharacter ).not();
}

public Predicate notLike(Expression<String> matchExpression, Expression<String> pattern, char escapeCharacter)
{
    return like( matchExpression, pattern, escapeCharacter ).not();
}

public Predicate notLike(Expression<String> matchExpression, String pattern) {
    return like( matchExpression, pattern ).not();
}

public Predicate notLike(Expression<String> matchExpression, String pattern, Expression<Character>
escapeCharacter) {
    return like( matchExpression, pattern, escapeCharacter ).not();
}

public Predicate notLike(Expression<String> matchExpression, String pattern, char escapeCharacter) {
    return like( matchExpression, pattern, escapeCharacter ).not();
}

// parameters ~~~~~

/**
 * {@inheritDoc}
 */
public <T> ParameterExpression<T> parameter(Class<T> paramClass) {
    return new ParameterExpressionImpl<T>( this, paramClass );
}

/**
 * {@inheritDoc}
 */
public <T> ParameterExpression<T> parameter(Class<T> paramClass, String name) {
    return new ParameterExpressionImpl<T>( this, paramClass, name );
}

/**
 * {@inheritDoc}
 */
public <T> Expression<T> literal(T value) {
    if ( value == null ) {
        throw new IllegalArgumentException( "literal value cannot be null" );
    }
    return new LiteralExpression<T>( this, value );
}

```

```

}

/**
 * {@inheritDoc}
 */
public <T> Expression<T> nullLiteral(Class<T> resultClass) {
    return new NullLiteralExpression<T>( this, resultClass );
}

// aggregate functions ~~~~~

/**
 * {@inheritDoc}
 */
public <N extends Number> Expression<Double> avg(Expression<N> x) {
    return new AggregationFunction.AVG( this, x );
}

/**
 * {@inheritDoc}
 */
public <N extends Number> Expression<N> sum(Expression<N> x) {
    return new AggregationFunction.SUM<N>( this, x );
}

/**
 * {@inheritDoc}
 */
public Expression<Long> sumAsLong(Expression<Integer> x) {
    return new AggregationFunction.SUM<Long>( this, x, Long.class );
}

/**
 * {@inheritDoc}
 */
public Expression<Double> sumAsDouble(Expression<Float> x) {
    return new AggregationFunction.SUM<Double>( this, x, Double.class );
}

/**
 * {@inheritDoc}
 */
public <N extends Number> Expression<N> max(Expression<N> x) {
    return new AggregationFunction.MAX<N>( this, x );
}

/**

```

```

* { @inheritDoc }
*/
public <N extends Number> Expression<N> min(Expression<N> x) {
    return new AggregationFunction.MIN<N>( this, x );
}

/**
* { @inheritDoc }
*/
@SuppressWarnings({ "unchecked" })
public <X extends Comparable<? super X>> Expression<X> greatest(Expression<X> x) {
    return new AggregationFunction.GREATEST( this, x );
}

/**
* { @inheritDoc }
*/
@SuppressWarnings({ "unchecked" })
public <X extends Comparable<? super X>> Expression<X> least(Expression<X> x) {
    return new AggregationFunction.LEAST( this, x );
}

/**
* { @inheritDoc }
*/
public Expression<Long> count(Expression<?> x) {
    return new AggregationFunction.COUNT( this, x, false );
}

/**
* { @inheritDoc }
*/
public Expression<Long> countDistinct(Expression<?> x) {
    return new AggregationFunction.COUNT( this, x, true );
}

// other functions
~~~~~

/**
* { @inheritDoc }
*/
public <T> Expression<T> function(String name, Class<T> returnType, Expression<?>... arguments) {
    return new ParameterizedFunctionExpression<T>( this, returnType, name, arguments );
}

```

```

/**
 * Create a reference to a function taking no params.
 *
 * @param name The function name.
 * @param returnType The return type.
 *
 * @return The function expression
 */
public <T> Expression<T> function(String name, Class<T> returnType) {
    return new BasicFunctionExpression<T>( this, returnType, name );
}

/**
 * {@inheritDoc}
 */
public <N extends Number> Expression<N> abs(Expression<N> expression) {
    return new AbsFunction<N>( this, expression );
}

/**
 * {@inheritDoc}
 */
public Expression<Double> sqrt(Expression<? extends Number> expression) {
    return new SqrtFunction( this, expression );
}

public Expression<java.sql.Date> currentDate() {
    return new CurrentDateFunction( this );
}

public Expression<java.sql.Timestamp> currentTimestamp() {
    return new CurrentTimestampFunction( this );
}

public Expression<java.sql.Time> currentTime() {
    return new CurrentTimeFunction( this );
}

public Expression<String> substring(Expression<String> value, Expression<Integer> start) {
    return new SubstringFunction( this, value, start );
}

public Expression<String> substring(Expression<String> value, int start) {
    return new SubstringFunction( this, value, start );
}

public Expression<String> substring(Expression<String> value, Expression<Integer> start, Expression<Integer>
length) {

```

```

return new SubstringFunction( this, value, start, length );
}

public Expression<String> substring(Expression<String> value, int start, int length) {
return new SubstringFunction( this, value, start, length );
}

public Expression<String> trim(Expression<String> trimSource ) {
return new TrimFunction( this, trimSource );
}

public Expression<String> trim(Trimspec trimspec, Expression<String> trimSource) {
return new TrimFunction( this, trimspec, trimSource );
}

public Expression<String> trim(Expression<Character> trimCharacter, Expression<String> trimSource) {
return new TrimFunction( this, trimCharacter, trimSource );
}

public Expression<String> trim(Trimspec trimspec, Expression<Character> trimCharacter, Expression<String>
trimSource) {
return new TrimFunction( this, trimspec, trimCharacter, trimSource );
}

public Expression<String> trim(char trimCharacter, Expression<String> trimSource) {
return new TrimFunction( this, trimCharacter, trimSource );
}

public Expression<String> trim(Trimspec trimspec, char trimCharacter, Expression<String> trimSource) {
return new TrimFunction( this, trimspec, trimCharacter, trimSource );
}

public Expression<String> lower(Expression<String> value) {
return new LowerFunction( this, value );
}

public Expression<String> upper(Expression<String> value) {
return new UpperFunction( this, value );
}

public Expression<Integer> length(Expression<String> value) {
return new LengthFunction( this, value );
}

public Expression<Integer> locate(Expression<String> string, Expression<String> pattern) {
return new LocateFunction( this, pattern, string );
}

```

```

public Expression<Integer> locate(Expression<String> string, Expression<String> pattern, Expression<Integer>
start) {
    return new LocateFunction( this, pattern, string, start );
}

```

```

public Expression<Integer> locate(Expression<String> string, String pattern) {
    return new LocateFunction( this, pattern, string );
}

```

```

public Expression<Integer> locate(Expression<String> string, String pattern, int start) {
    return new LocateFunction( this, pattern, string, start );
}

```

```

// arithmetic operations

```

```

~~~~~

```

```

@Override
public <N extends Number> Expression<N> neg(Expression<N> expression) {
    return new UnaryArithmeticOperation<N>(
        this,
        UnaryArithmeticOperation.Operation.UNARY_MINUS,
        expression
    );
}

```

```

@Override
@SuppressWarnings({ "unchecked" })
public <N extends Number> Expression<N> sum(Expression<? extends N> expression1, Expression<? extends N>
expression2) {
    if ( expression1 == null || expression2 == null ) {
        throw new IllegalArgumentException( "arguments to sum() cannot be null" );
    }
}

```

```

final Class resultType = BinaryArithmeticOperation.determineResultType( expression1.getJavaType(),
expression2.getJavaType() );

```

```

return new BinaryArithmeticOperation<N>(
    this,
    resultType,
    BinaryArithmeticOperation.Operation.ADD,
    expression1,
    expression2
);
}

```

```

@Override

```

```

@SuppressWarnings({ "unchecked" })
public <N extends Number> Expression<N> prod(Expression<? extends N> expression1, Expression<? extends N>
expression2) {
    if ( expression1 == null || expression2 == null ) {
        throw new IllegalArgumentException( "arguments to prod() cannot be null" );
    }

    final Class resultType = BinaryArithmeticOperation.determineResultType( expression1.getJavaType(),
expression2.getJavaType() );

    return new BinaryArithmeticOperation<N>(
        this,
        resultType,
        BinaryArithmeticOperation.Operation.MULTIPLY,
        expression1,
        expression2
    );
}

@Override
@SuppressWarnings({ "unchecked" })
public <N extends Number> Expression<N> diff(Expression<? extends N> expression1, Expression<? extends N>
expression2) {
    if ( expression1 == null || expression2 == null ) {
        throw new IllegalArgumentException( "arguments to diff() cannot be null" );
    }

    final Class resultType = BinaryArithmeticOperation.determineResultType( expression1.getJavaType(),
expression2.getJavaType() );

    return new BinaryArithmeticOperation<N>(
        this,
        resultType,
        BinaryArithmeticOperation.Operation.SUBTRACT,
        expression1,
        expression2
    );
}

@Override
@SuppressWarnings({ "unchecked" })
public <N extends Number> Expression<N> sum(Expression<? extends N> expression, N n) {
    if ( expression == null || n == null ) {
        throw new IllegalArgumentException( "arguments to sum() cannot be null" );
    }

    final Class resultType = BinaryArithmeticOperation.determineResultType( expression.getJavaType(), n.getClass() );

```



```

return new BinaryArithmeticOperation<N>(
    this,
    resultType,
    BinaryArithmeticOperation.Operation.ADD,
    expression,
    n
);
}

@Override
@SuppressWarnings({ "unchecked" })
public <N extends Number> Expression<N> prod(Expression<? extends N> expression, N n) {
    if ( expression == null || n == null ) {
        throw new IllegalArgumentException( "arguments to prod() cannot be null" );
    }

    final Class resultType = BinaryArithmeticOperation.determineResultType( expression.getJavaType(), n.getClass() );

    return new BinaryArithmeticOperation<N>(
        this,
        resultType,
        BinaryArithmeticOperation.Operation.MULTIPLY,
        expression,
        n
    );
}

@Override
@SuppressWarnings({ "unchecked" })
public <N extends Number> Expression<N> diff(Expression<? extends N> expression, N n) {
    if ( expression == null || n == null ) {
        throw new IllegalArgumentException( "arguments to diff() cannot be null" );
    }

    final Class resultType = BinaryArithmeticOperation.determineResultType( expression.getJavaType(), n.getClass() );

    return new BinaryArithmeticOperation<N>(
        this,
        resultType,
        BinaryArithmeticOperation.Operation.SUBTRACT,
        expression,
        n
    );
}

@Override
@SuppressWarnings({ "unchecked" })
public <N extends Number> Expression<N> sum(N n, Expression<? extends N> expression) {

```

```

if ( expression == null || n == null ) {
    throw new IllegalArgumentException( "arguments to sum() cannot be null" );
}

final Class resultType = BinaryArithmeticOperation.determineResultType( n.getClass(), expression.getJavaType() );

return new BinaryArithmeticOperation<N>(
    this,
    resultType,
    BinaryArithmeticOperation.Operation.ADD,
    n,
    expression
);
}

@Override
@SuppressWarnings({ "unchecked" })
public <N extends Number> Expression<N> prod(N n, Expression<? extends N> expression) {
    if ( n == null || expression == null ) {
        throw new IllegalArgumentException( "arguments to prod() cannot be null" );
    }

    final Class resultType = BinaryArithmeticOperation.determineResultType( n.getClass(), expression.getJavaType() );

    return (BinaryArithmeticOperation<N>) new BinaryArithmeticOperation(
        this,
        resultType,
        BinaryArithmeticOperation.Operation.MULTIPLY,
        n,
        expression
    );
}

@Override
@SuppressWarnings({ "unchecked" })
public <N extends Number> Expression<N> diff(N n, Expression<? extends N> expression) {
    if ( n == null || expression == null ) {
        throw new IllegalArgumentException( "arguments to diff() cannot be null" );
    }

    final Class resultType = BinaryArithmeticOperation.determineResultType( n.getClass(), expression.getJavaType() );

    return new BinaryArithmeticOperation<N>(
        this,
        resultType,
        BinaryArithmeticOperation.Operation.SUBTRACT,
        n,
        expression

```

```

);
}

@Override
@SuppressWarnings( {"unchecked"})
public Expression<Number> quot(Expression<? extends Number> expression1, Expression<? extends Number>
expression2) {
    if ( expression1 == null || expression2 == null ) {
        throw new IllegalArgumentException( "arguments to quot() cannot be null" );
    }

    final Class resultType = BinaryArithmeticOperation.determineResultType( expression1.getJavaType(),
expression2.getJavaType(), true );

    return new BinaryArithmeticOperation<Number>(
        this,
        resultType,
        BinaryArithmeticOperation.Operation.DIVIDE,
        expression1,
        expression2
    );
}

@Override
@SuppressWarnings( {"unchecked"})
public Expression<Number> quot(Expression<? extends Number> expression, Number number) {
    if ( expression == null || number == null ) {
        throw new IllegalArgumentException( "arguments to quot() cannot be null" );
    }

    final Class resultType = BinaryArithmeticOperation.determineResultType( expression.getJavaType(),
number.getClass(), true );

    return new BinaryArithmeticOperation<Number>(
        this,
        resultType,
        BinaryArithmeticOperation.Operation.DIVIDE,
        expression,
        number
    );
}

@Override
@SuppressWarnings( {"unchecked"})
public Expression<Number> quot(Number number, Expression<? extends Number> expression) {
    if ( expression == null || number == null ) {
        throw new IllegalArgumentException( "arguments to quot() cannot be null" );
    }
}

```

```
final Class resultType = BinaryArithmeticOperation.determineResultType( number.getClass(),
expression.getJavaType(), true );
```

```
return new BinaryArithmeticOperation<Number>(
    this,
    resultType,
    BinaryArithmeticOperation.Operation.DIVIDE,
    number,
    expression
);
}
```

```
@Override
```

```
public Expression<Integer> mod(Expression<Integer> expression1, Expression<Integer> expression2) {
    if ( expression1 == null || expression2 == null ) {
        throw new IllegalArgumentException( "arguments to mod() cannot be null" );
    }
}
```

```
return new BinaryArithmeticOperation<Integer>(
    this,
    Integer.class,
    BinaryArithmeticOperation.Operation.MOD,
    expression1,
    expression2
);
}
```

```
@Override
```

```
public Expression<Integer> mod(Expression<Integer> expression, Integer integer) {
    if ( expression == null || integer == null ) {
        throw new IllegalArgumentException( "arguments to mod() cannot be null" );
    }
}
```

```
return new BinaryArithmeticOperation<Integer>(
    this,
    Integer.class,
    BinaryArithmeticOperation.Operation.MOD,
    expression,
    integer
);
}
```

```
@Override
```

```
public Expression<Integer> mod(Integer integer, Expression<Integer> expression) {
    if ( integer == null || expression == null ) {
        throw new IllegalArgumentException( "arguments to mod() cannot be null" );
    }
}
```

```

return new BinaryArithmeticOperation<Integer>(
    this,
    Integer.class,
    BinaryArithmeticOperation.Operation.MOD,
    integer,
    expression
);
}

// casting
~~~~~
~~~~~

/**
 * {@inheritDoc}
 */
public ExpressionImplementor<Long> toLong(Expression<? extends Number> expression) {
    return ( (ExpressionImplementor<? extends Number>) expression ).asLong();
}

/**
 * {@inheritDoc}
 */
public ExpressionImplementor<Integer> toInteger(Expression<? extends Number> expression) {
    return ( (ExpressionImplementor<? extends Number>) expression ).asInteger();
}

/**
 * {@inheritDoc}
 */
public ExpressionImplementor<Float> toFloat(Expression<? extends Number> expression) {
    return ( (ExpressionImplementor<? extends Number>) expression ).asFloat();
}

/**
 * {@inheritDoc}
 */
public ExpressionImplementor<Double> toDouble(Expression<? extends Number> expression) {
    return ( (ExpressionImplementor<? extends Number>) expression ).asDouble();
}

/**
 * {@inheritDoc}
 */
public ExpressionImplementor<BigDecimal> toBigDecimal(Expression<? extends Number> expression) {
    return ( (ExpressionImplementor<? extends Number>) expression ).asBigDecimal();
}

```

```

}

/**
 * {@inheritDoc}
 */
public ExpressionImplementor<BigInteger> toBigInteger(Expression<? extends Number> expression) {
    return ( (ExpressionImplementor<? extends Number>) expression ).asBigInteger();
}

/**
 * {@inheritDoc}
 */
public ExpressionImplementor<String> toString(Expression<Character> characterExpression) {
    return ( (ExpressionImplementor<Character>) characterExpression ).asString();
}

// subqueries
~~~~~

/**
 * {@inheritDoc}
 */
public Predicate exists(Subquery<?> subquery) {
    return new ExistsPredicate( this, subquery );
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public <Y> Expression<Y> all(Subquery<Y> subquery) {
    return new SubqueryComparisonModifierExpression<Y>(
        this,
        (Class<Y>) subquery.getJavaType(),
        subquery,
        SubqueryComparisonModifierExpression.Modifier.ALL
    );
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public <Y> Expression<Y> some(Subquery<Y> subquery) {
    return new SubqueryComparisonModifierExpression<Y>(
        this,

```

```

        (Class<Y>) subquery.getJavaType(),
        subquery,
        SubqueryComparisonModifierExpression.Modifier.SOME
    );
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public <Y> Expression<Y> any(Subquery<Y> subquery) {
    return new SubqueryComparisonModifierExpression<Y>(
        this,
        (Class<Y>) subquery.getJavaType(),
        subquery,
        SubqueryComparisonModifierExpression.Modifier.ANY
    );
}

// miscellaneous expressions
~~~~~

~

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "RedundantCast" })
public <Y> Expression<Y> coalesce(Expression<? extends Y> exp1, Expression<? extends Y> exp2) {
    return coalesce( (Class<Y>) null, exp1, exp2 );
}

public <Y> Expression<Y> coalesce(Class<Y> type, Expression<? extends Y> exp1, Expression<? extends Y>
exp2) {
    return new CoalesceExpression<Y>( this, type ).value( exp1 ).value( exp2 );
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "RedundantCast" })
public <Y> Expression<Y> coalesce(Expression<? extends Y> exp1, Y exp2) {
    return coalesce( (Class<Y>) null, exp1, exp2 );
}

public <Y> Expression<Y> coalesce(Class<Y> type, Expression<? extends Y> exp1, Y exp2) {
    return new CoalesceExpression<Y>( this, type ).value( exp1 ).value( exp2 );
}

```

```

/**
 * {@inheritDoc}
 */
public <T> Coalesce<T> coalesce() {
    return coalesce( (Class<T>)null );
}

public <T> Coalesce<T> coalesce(Class<T> type) {
    return new CoalesceExpression<T>( this, type );
}

/**
 * {@inheritDoc}
 */
public Expression<String> concat(Expression<String> string1, Expression<String> string2) {
    return new ConcatExpression( this, string1, string2 );
}

/**
 * {@inheritDoc}
 */
public Expression<String> concat(Expression<String> string1, String string2) {
    return new ConcatExpression( this, string1, string2 );
}

/**
 * {@inheritDoc}
 */
public Expression<String> concat(String string1, Expression<String> string2) {
    return new ConcatExpression( this, string1, string2 );
}

/**
 * {@inheritDoc}
 */
public <Y> Expression<Y> nullif(Expression<Y> exp1, Expression<?> exp2) {
    return nullif( null, exp1, exp2 );
}

public <Y> Expression<Y> nullif(Class<Y> type, Expression<Y> exp1, Expression<?> exp2) {
    return new NullifExpression<Y>( this, type, exp1, exp2 );
}

/**
 * {@inheritDoc}
 */
public <Y> Expression<Y> nullif(Expression<Y> exp1, Y exp2) {

```



```

return nullif( null, exp1, exp2 );
}

public <Y> Expression<Y> nullif(Class<Y> type, Expression<Y> exp1, Y exp2) {
return new NullifExpression<Y>( this, type, exp1, exp2 );
}

/**
 * {@inheritDoc}
 */
public <C, R> SimpleCase<C, R> selectCase(Expression<? extends C> expression) {
return selectCase( (Class<R>)null, expression );
}

public <C, R> SimpleCase<C, R> selectCase(Class<R> type, Expression<? extends C> expression) {
return new SimpleCaseExpression<C, R>( this, type, expression );
}

/**
 * {@inheritDoc}
 */
public <R> Case<R> selectCase() {
return selectCase( (Class<R>)null );
}

public <R> Case<R> selectCase(Class<R> type) {
return new SearchedCaseExpression<R>( this, type );
}

/**
 * {@inheritDoc}
 */
public <C extends Collection<?>> Expression<Integer> size(C c) {
int size = c == null ? 0 : c.size();
return new LiteralExpression<Integer>(this, Integer.class, size);
}

/**
 * {@inheritDoc}
 */
public <C extends Collection<?>> Expression<Integer> size(Expression<C> exp) {
if ( LiteralExpression.class.isInstance(exp) ) {
return size( ( LiteralExpression<C>) exp ).getLiteral() );
}
else if ( PluralAttributePath.class.isInstance(exp) ) {
return new SizeOfCollectionExpression<C>(this, (PluralAttributePath<C>) exp );
}
}
// TODO : what other specific types? any?

```

```

    throw new IllegalArgumentException("unknown collection expression type [" + exp.getClass().getName() + "]" );
}

/**
 * {@inheritDoc}
 */
public <V, M extends Map<?, V>> Expression<Collection<V>> values(M map) {
    return new LiteralExpression<Collection<V>>( this, map.values() );
}

/**
 * {@inheritDoc}
 */
public <K, M extends Map<K, ?>> Expression<Set<K>> keys(M map) {
    return new LiteralExpression<Set<K>>( this, map.keySet() );
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public <C extends Collection<?>> Predicate isEmpty(Expression<C> collectionExpression) {
    if ( PluralAttributePath.class.isInstance(collectionExpression) ) {
        return new IsEmptyPredicate( this, (PluralAttributePath<C>) collectionExpression );
    }
    // TODO : what other specific types? any?
    throw new IllegalArgumentException(
        "unknown collection expression type [" + collectionExpression.getClass().getName() + "]"
    );
}

/**
 * {@inheritDoc}
 */
public <C extends Collection<?>> Predicate isEmpty(Expression<C> collectionExpression) {
    return isEmpty( collectionExpression ).not();
}

/**
 * {@inheritDoc}
 */
public <E, C extends Collection<E>> Predicate isMember(E e, Expression<C> collectionExpression) {
    if ( ! PluralAttributePath.class.isInstance( collectionExpression ) ) {
        throw new IllegalArgumentException(
            "unknown collection expression type [" + collectionExpression.getClass().getName() + "]"
        );
    }
}

```

```

return new MemberOfPredicate<E, C>(
    this,
    e,
    (PluralAttributePath<C>)collectionExpression
);
}

/**
 * {@inheritDoc}
 */
public <E, C extends Collection<E>> Predicate isNotMember(E e, Expression<C> cExpression) {
    return isMember(e, cExpression).not();
}

/**
 * {@inheritDoc}
 */
public <E, C extends Collection<E>> Predicate isMember(Expression<E> elementExpression, Expression<C>
collectionExpression) {
    if ( ! PluralAttributePath.class.isInstance( collectionExpression ) ) {
        throw new IllegalArgumentException(
            "unknown collection expression type [" + collectionExpression.getClass().getName() + "]"
        );
    }
    return new MemberOfPredicate<E, C>(
        this,
        elementExpression,
        (PluralAttributePath<C>)collectionExpression
    );
}

/**
 * {@inheritDoc}
 */
public <E, C extends Collection<E>> Predicate isNotMember(Expression<E> eExpression, Expression<C>
cExpression) {
    return isMember(eExpression, cExpression).not();
}
}
}

/**
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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* along with this distribution; if not, write to:
* Free Software Foundation, Inc.
* 51 Franklin Street, Fifth Floor
* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb.criteria;
import javax.persistence.criteria.MapJoin;

/**
 * Specialization of { @link JoinImplementor } for { @link java.util.Map } typed attribute joins
 *
 * @author Steve Ebersole
 */
public interface MapJoinImplementor<Z,K,V> extends JoinImplementor<Z,V>, MapJoin<Z,K,V> {
/**
 * { @inheritDoc }
 * <p/>
 * Refined return type
 */
public MapJoinImplementor<Z,K,V> correlateTo(CriteriaSubqueryImpl subquery);
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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```

```

* along with this distribution; if not, write to:
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* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb.criteria;
import java.math.BigDecimal;
import java.math.BigInteger;
import javax.persistence.criteria.Expression;

/**
 * TODO : javadoc
 *
 * @author Steve Ebersole
 */
public interface ExpressionImplementor<T> extends SelectionImplementor<T>, Expression<T>, Renderable {
/**
 * See { @link javax.persistence.criteria.CriteriaBuilder#toLong }
 *
 * @return <tt>this</tt> but as a long
 */
public ExpressionImplementor<Long> asLong();

/**
 * See { @link javax.persistence.criteria.CriteriaBuilder#toInteger }
 *
 * @return <tt>this</tt> but as an integer
 */
public ExpressionImplementor<Integer> asInteger();

/**
 * See { @link javax.persistence.criteria.CriteriaBuilder#toFloat }
 *
 * @return <tt>this</tt> but as a float
 */
public ExpressionImplementor<Float> asFloat();

/**
 * See { @link javax.persistence.criteria.CriteriaBuilder#toDouble }
 *
 * @return <tt>this</tt> but as a double
 */
public ExpressionImplementor<Double> asDouble();

/**
 * See { @link javax.persistence.criteria.CriteriaBuilder#toBigDecimal }
 *
 * @return <tt>this</tt> but as a { @link BigDecimal }

```

```

*/
public ExpressionImplementor<BigDecimal> asBigDecimal();

/**
 * See { @link javax.persistence.criteria.CriteriaBuilder#toBigInteger }
 *
 * @return <tt>this</tt> but as a { @link BigInteger }
 */
public ExpressionImplementor<BigInteger> asBigInteger();

/**
 * See { @link javax.persistence.criteria.CriteriaBuilder#toString }
 *
 * @return <tt>this</tt> but as a string
 */
public ExpressionImplementor<String> asString();
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria;
import javax.persistence.criteria.SetJoin;

/**
 * Specialization of { @link JoinImplementor } for { @link java.util.Set } typed attribute joins
 *
 * @author Steve Ebersole
 */

```

```

public interface SetJoinImplementor<Z,X> extends JoinImplementor<Z,X>, SetJoin<Z,X> {
    /**
     * { @inheritDoc }
     * <p/>
     * Refined return type
     */
    public SetJoinImplementor<Z,X> correlateTo(CriteriaSubqueryImpl subquery);
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria;
import java.io.Serializable;
import javax.persistence.criteria.Expression;
import javax.persistence.criteria.Order;

/**
 * Represents an <tt>ORDER BY</tt> fragment.
 *
 * @author Steve Ebersole
 */
public class OrderImpl implements Order, Serializable {
    private final Expression<?> expression;
    private boolean ascending;

    public OrderImpl(Expression<?> expression) {
        this( expression, true );
    }
}

```

```

public OrderImpl(Expression<?> expression, boolean ascending) {
    this.expression = expression;
    this.ascending = ascending;
}

public Order reverse() {
    ascending = !ascending;
    return this;
}

public boolean isAscending() {
    return ascending;
}

public Expression<?> getExpression() {
    return expression;
}
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 * Free Software Foundation, Inc.
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 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria.path;

import java.io.Serializable;
import javax.persistence.criteria.Root;
import javax.persistence.metamodel.EntityType;

```



```

import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.CriteriaSubqueryImpl;
import org.hibernate.ejb.criteria.FromImplementor;

/**
 * TODO : javadoc
 *
 * @author Steve Ebersole
 */
public class RootImpl<X> extends AbstractFromImpl<X,X> implements Root<X>, Serializable {
    private final EntityType<X> entityType;

    public RootImpl(
        CriteriaBuilderImpl criteriaBuilder,
        EntityType<X> entityType) {
        super( criteriaBuilder, entityType.getJavaType() );
        this.entityType = entityType;
    }

    public EntityType<X> getEntityType() {
        return entityType;
    }

    public EntityType<X> getModel() {
        return getEntityType();
    }

    @Override
    protected FromImplementor<X, X> createCorrelationDelegate() {
        return new RootImpl<X>( criteriaBuilder(), getEntityType() );
    }

    @Override
    public RootImpl<X> correlateTo(CriteriaSubqueryImpl subquery) {
        return (RootImpl<X>) super.correlateTo( subquery );
    }

    @Override
    protected boolean canBeJoinSource() {
        return true;
    }

    public String renderTableExpression(CriteriaQueryCompiler.RenderingContext renderingContext) {
        prepareAlias( renderingContext );
        return getModel().getName() + " as " + getAlias();
    }
}

```

```

@Override
public String getPathIdentifier() {
    return getAlias();
}

@Override
public String render(CriteriaQueryCompiler.RenderingContext renderingContext) {
    prepareAlias( renderingContext );
    return getAlias();
}

@Override
public String renderProjection(CriteriaQueryCompiler.RenderingContext renderingContext) {
    return render( renderingContext );
}
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria.path;

import java.io.Serializable;
import javax.persistence.criteria.From;
import javax.persistence.criteria.JoinType;
import javax.persistence.metamodel.Attribute;

import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;

```

```

import org.hibernate.ejb.criteria.CriteriaSubqueryImpl;
import org.hibernate.ejb.criteria.FromImplementor;
import org.hibernate.ejb.criteria.JoinImplementor;
import org.hibernate.ejb.criteria.PathSource;

/**
 * TODO : javadoc
 *
 * @author Steve Ebersole
 */
public abstract class AbstractJoinImpl<Z, X>
    extends AbstractFromImpl<Z, X>
    implements JoinImplementor<Z,X>, Serializable {

    private final Attribute<? super Z, ?> joinAttribute;
    private final JoinType joinType;

    public AbstractJoinImpl(
        CriteriaBuilderImpl criteriaBuilder,
        PathSource<Z> pathSource,
        Attribute<? super Z, X> joinAttribute,
        JoinType joinType) {
        this( criteriaBuilder, joinAttribute.getJavaType(), pathSource, joinAttribute, joinType );
    }

    public AbstractJoinImpl(
        CriteriaBuilderImpl criteriaBuilder,
        Class<X> javaType,
        PathSource<Z> pathSource,
        Attribute<? super Z, ?> joinAttribute,
        JoinType joinType) {
        super( criteriaBuilder, javaType, pathSource );
        this.joinAttribute = joinAttribute;
        this.joinType = joinType;
    }

    /**
     * {@inheritDoc}
     */
    public Attribute<? super Z, ?> getAttribute() {
        return joinAttribute;
    }

    /**
     * {@inheritDoc}
     */
    public JoinType getJoinType() {
        return joinType;
    }

```

```

}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public From<?, Z> getParent() {
    // this cast should be ok by virtue of our constructors...
    return (From<?, Z>) getPathSource();
}

public String renderTableExpression(CriteriaQueryCompiler.RenderingContext renderingContext) {
    prepareAlias( renderingContext );
    ( (FromImplementor) getParent() ).prepareAlias( renderingContext );
    return getParent().getAlias() + ' ' + getAttribute().getName() + " as " + getAlias();
}

public JoinImplementor<Z, X> correlateTo(CriteriaSubqueryImpl subquery) {
    return (JoinImplementor<Z, X>) super.correlateTo( subquery );
}
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria.path;

import java.io.Serializable;

```

```

import java.util.Collection;
import java.util.HashMap;
import java.util.Map;
import javax.persistence.criteria.Expression;
import javax.persistence.criteria.Path;
import javax.persistence.metamodel.Attribute;
import javax.persistence.metamodel.MapAttribute;
import javax.persistence.metamodel.PluralAttribute;
import javax.persistence.metamodel.SingularAttribute;

import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.ParameterRegistry;
import org.hibernate.ejb.criteria.PathImplementor;
import org.hibernate.ejb.criteria.PathSource;
import org.hibernate.ejb.criteria.expression.ExpressionImpl;
import org.hibernate.ejb.criteria.expression.PathTypeExpression;

/**
 * Convenience base class for various { @link Path } implementors.
 *
 * @author Steve Ebersole
 */
public abstract class AbstractPathImpl<X>
    extends ExpressionImpl<X>
    implements Path<X>, PathImplementor<X>, Serializable {

    private final PathSource pathSource;
    private final Expression<Class<? extends X>> typeExpression;
    private Map<String,Path> attributePathRegistry;

    /**
     * Constructs a basic path instance.
     *
     * @param criteriaBuilder The criteria builder
     * @param javaType The java type of this path
     * @param pathSource The source (or origin) from which this path originates
     */
    @SuppressWarnings({ "unchecked" })
    public AbstractPathImpl(
        CriteriaBuilderImpl criteriaBuilder,
        Class<X> javaType,
        PathSource pathSource) {
        super( criteriaBuilder, javaType );
        this.pathSource = pathSource;
        this.typeExpression = new PathTypeExpression( criteriaBuilder(), getJavaType(), this );
    }
}

```

```

public PathSource getPathSource() {
    return pathSource;
}

/**
 * {@inheritDoc}
 */
@Override
public PathSource<?> getParentPath() {
    return getPathSource();
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public Expression<Class<? extends X>> type() {
    return typeExpression;
}

/**
 * {@inheritDoc}
 */
@Override
public String getPathIdentifier() {
    return getPathSource().getPathIdentifier() + "." + getAttribute().getName();
}

protected abstract boolean canBeDereferenced();

protected final RuntimeException illegalDereference() {
    String message = "Illegal attempt to dereference path source";
    PathSource<?> source = getPathSource();
    if ( source != null ) {
        message += " [" + getPathSource().getPathIdentifier() + "];"
    }
    return new IllegalArgumentException(message);
}

protected final RuntimeException unknownAttribute(String attributeName) {
    String message = "Unable to resolve attribute [" + attributeName + "] against path";
    PathSource<?> source = getPathSource();
    if ( source != null ) {
        message += " [" + source.getPathIdentifier() + "];"
    }
    return new IllegalArgumentException(message);
}

```

```

protected final Path resolveCachedAttributePath(String attributeName) {
    return attributePathRegistry == null
        ? null
        : attributePathRegistry.get( attributeName );
}

protected final void registerAttributePath(String attributeName, Path path) {
    if ( attributePathRegistry == null ) {
        attributePathRegistry = new HashMap<String,Path>();
    }
    attributePathRegistry.put( attributeName, path );
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
@Override
public <Y> Path<Y> get(SingularAttribute<? super X, Y> attribute) {
    if ( ! canBeDereferenced() ) {
        throw illegalDereference();
    }

    SingularAttributePath<Y> path = (SingularAttributePath<Y>) resolveCachedAttributePath( attribute.getName() );
    if ( path == null ) {
        path = new SingularAttributePath<Y>( criteriaBuilder(), attribute.getJavaType(), this, attribute );
        registerAttributePath( attribute.getName(), path );
    }
    return path;
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
@Override
public <E, C extends Collection<E>> Expression<C> get(PluralAttribute<X, C, E> attribute) {
    if ( ! canBeDereferenced() ) {
        throw illegalDereference();
    }
}

PluralAttributePath<C> path = (PluralAttributePath<C>) resolveCachedAttributePath( attribute.getName() );
if ( path == null ) {
    path = new PluralAttributePath<C>( criteriaBuilder(), this, attribute );
    registerAttributePath( attribute.getName(), path );
}
return path;
}

```

```

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
@Override
public <K, V, M extends Map<K, V>> Expression<M> get(MapAttribute<X, K, V> attribute) {
    if ( ! canBeDereferenced() ) {
        throw illegalDereference();
    }

    PluralAttributePath path = (PluralAttributePath) resolveCachedAttributePath( attribute.getName() );
    if ( path == null ) {
        path = new PluralAttributePath( criteriaBuilder(), this, attribute );
        registerAttributePath( attribute.getName(), path );
    }
    return path;
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
@Override
public <Y> Path<Y> get(String attributeName) {
    if ( ! canBeDereferenced() ) {
        throw illegalDereference();
    }
}

final Attribute attribute = locateAttribute( attributeName );

if ( attribute.isCollection() ) {
    final PluralAttribute<X,Y,?> pluralAttribute = (PluralAttribute<X,Y,?>) attribute;
    if ( PluralAttribute.CollectionType.MAP.equals( pluralAttribute.getCollectionType() ) ) {
        return (PluralAttributePath<Y>) this.<Object,Object,Map<Object, Object>>get( (MapAttribute) pluralAttribute );
    }
    else {
        return (PluralAttributePath<Y>) this.get( (PluralAttribute) pluralAttribute );
    }
}
else {
    return get( (SingularAttribute<X,Y>) attribute );
}
}

/**
 * Get the attribute by name from the underlying model. This allows subclasses to
 * define exactly how the attribute is derived.

```



```

*
* @param attributeName The name of the attribute to locate
*
* @return The attribute; should never return null.
*
* @throws IllegalArgumentException If no such attribute exists
*/
protected final Attribute locateAttribute(String attributeName) {
    final Attribute attribute = locateAttributeInternal( attributeName );
    if ( attribute == null ) {
        throw unknownAttribute( attributeName );
    }
    return attribute;
}

/**
* Get the attribute by name from the underlying model. This allows subclasses to
* define exactly how the attribute is derived. Called from {@link #locateAttribute}
* which also applies nullness checking for proper error reporting.
*
* @param attributeName The name of the attribute to locate
*
* @return The attribute; may be null.
*
* @throws IllegalArgumentException If no such attribute exists
*/
protected abstract Attribute locateAttributeInternal(String attributeName);

/**
* {@inheritDoc}
*/
@Override
public void registerParameters(ParameterRegistry registry) {
    // none to register
}

@Override
public void prepareAlias(CriteriaQueryCompiler.RenderingContext renderingContext) {
    // Make sure we delegate up to our source (eventually up to the path root) to
    // prepare the path properly.
    PathSource<?> source = getPathSource();
    if ( source != null ) {
        source.prepareAlias( renderingContext );
    }
}

/**
* {@inheritDoc}
*/

```

```

@Override
public String render(CriteriaQueryCompiler.RenderingContext renderingContext) {
    PathSource<?> source = getPathSource();
    if ( source != null ) {
        source.prepareAlias( renderingContext );
        return source.getPathIdentifier() + "." + getAttribute().getName();
    } else {
        return getAttribute().getName();
    }
}

/**
 * {@inheritDoc}
 */
@Override
public String renderProjection(CriteriaQueryCompiler.RenderingContext renderingContext) {
    return render( renderingContext );
}
}
/*
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 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria.path;

import java.io.Serializable;
import java.util.Collections;
import java.util.LinkedHashSet;
import java.util.Set;

```

```

import javax.persistence.criteria.CollectionJoin;
import javax.persistence.criteria.Fetch;
import javax.persistence.criteria.From;
import javax.persistence.criteria.Join;
import javax.persistence.criteria.JoinType;
import javax.persistence.criteria.ListJoin;
import javax.persistence.criteria.MapJoin;
import javax.persistence.criteria.SetJoin;
import javax.persistence.metamodel.Attribute;
import javax.persistence.metamodel.CollectionAttribute;
import javax.persistence.metamodel.ListAttribute;
import javax.persistence.metamodel.ManagedType;
import javax.persistence.metamodel.MapAttribute;
import javax.persistence.metamodel.PluralAttribute;
import javax.persistence.metamodel.SetAttribute;
import javax.persistence.metamodel.SingularAttribute;
import javax.persistence.metamodel.Type;

import org.hibernate.ejb.criteria.BasicPathUsageException;
import org.hibernate.ejb.criteria.CollectionJoinImplementor;
import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.CriteriaSubqueryImpl;
import org.hibernate.ejb.criteria.FromImplementor;
import org.hibernate.ejb.criteria.JoinImplementor;
import org.hibernate.ejb.criteria.ListJoinImplementor;
import org.hibernate.ejb.criteria.MapJoinImplementor;
import org.hibernate.ejb.criteria.PathSource;
import org.hibernate.ejb.criteria.SetJoinImplementor;

/**
 * Convenience base class for various { @link javax.persistence.criteria.From } implementors.
 *
 * @author Steve Ebersole
 */
public abstract class AbstractFromImpl<Z,X>
    extends AbstractPathImpl<X>
    implements From<Z,X>, FromImplementor<Z,X>, Serializable {

    public static final JoinType DEFAULT_JOIN_TYPE = JoinType.INNER;

    private Set<Join<X, ?>> joins;
    private Set<Fetch<X, ?>> fetches;

    public AbstractFromImpl(CriteriaBuilderImpl criteriaBuilder, Class<X> javaType) {
        this( criteriaBuilder, javaType, null );
    }
}

```

```

public AbstractFromImpl(CriteriaBuilderImpl criteriaBuilder, Class<X> javaType, PathSource pathSource) {
    super( criteriaBuilder, javaType, pathSource );
}

@Override
@SuppressWarnings({ "unchecked" })
public PathSource<Z> getPathSource() {
    return super.getPathSource();
}

@Override
public String getPathIdentifier() {
    return getAlias();
}

@Override
protected boolean canBeDereferenced() {
    return true;
}

@Override
public void prepareAlias(CriteriaQueryCompiler.RenderingContext renderingContext) {
    if ( getAlias() == null ) {
        if ( isCorrelated() ) {
            setAlias( getCorrelationParent().getAlias() );
        }
        else {
            setAlias( renderingContext.generateAlias() );
        }
    }
}

@Override
public String renderProjection(CriteriaQueryCompiler.RenderingContext renderingContext) {
    prepareAlias( renderingContext );
    return getAlias();
}

@Override
public String render(CriteriaQueryCompiler.RenderingContext renderingContext) {
    return renderProjection( renderingContext );
}

@Override
public Attribute<?, ?> getAttribute() {
    return null;
}

```

```

public From<?, Z> getParent() {
    return null;
}

@Override
@SuppressWarnings({ "unchecked" })
protected Attribute<X, ?> locateAttributeInternal(String name) {
    return (Attribute<X, ?>) locateManagedType().getAttribute( name );
}

@SuppressWarnings({ "unchecked" })
protected ManagedType<? super X> locateManagedType() {
    // by default, this should be the model
    return (ManagedType<? super X>) getModel();
}

// CORRELATION
~~~~~

// IMPL NOTE : another means from handling correlations is to create a series of
// specialized From implementations that represent the correlation roots. While
// that may be cleaner code-wise, it is certainly means creating a lot of "extra"
// classes since we'd need one for each Subquery#correlate method

private FromImplementor<Z,X> correlationParent;

private JoinScope<X> joinScope = new BasicJoinScope();

/**
 * Helper contract used to define who/what keeps track of joins and fetches made from this <tt>FROM</tt>.
 */
public static interface JoinScope<X> extends Serializable {
    public void addJoin(Join<X, ?> join);
    public void addFetch(Fetch<X, ?> fetch);
}

protected class BasicJoinScope implements JoinScope<X> {
    @Override
    public void addJoin(Join<X, ?> join) {
        if ( joins == null ) {
            joins = new LinkedHashSet<Join<X, ?>>();
        }
        joins.add( join );
    }

    @Override

```

```

public void addFetch(Fetch<X, ?> fetch) {
    if ( fetches == null ) {
        fetches = new LinkedHashSet<Fetch<X, ?>>();
    }
    fetches.add( fetch );
}

}

protected class CorrelationJoinScope implements JoinScope<X> {
    @Override
    public void addJoin(Join<X, ?> join) {
        if ( joins == null ) {
            joins = new LinkedHashSet<Join<X, ?>>();
        }
        joins.add( join );
    }

    @Override
    public void addFetch(Fetch<X, ?> fetch) {
        throw new UnsupportedOperationException( "Cannot define fetch from a subquery correlation" );
    }
}

@Override
public boolean isCorrelated() {
    return getCorrelationParent() != null;
}

@Override
public FromImplementor<Z, X> getCorrelationParent() {
    return correlationParent;
}

@Override
@Override
@SuppressWarnings({ "unchecked" })
public FromImplementor<Z, X> correlateTo(CriteriaSubqueryImpl subquery) {
    final FromImplementor<Z, X> correlationDelegate = createCorrelationDelegate();
    correlationDelegate.prepareCorrelationDelegate( this );
    return correlationDelegate;
}

protected abstract FromImplementor<Z, X> createCorrelationDelegate();

@Override
public void prepareCorrelationDelegate(FromImplementor<Z, X> parent) {
    this.joinScope = new CorrelationJoinScope();
    this.correlationParent = parent;
}
}

```

```

@Override
public String getAlias() {
    return isCorrelated() ? getCorrelationParent().getAlias() : super.getAlias();
}

// JOINS
~~~~~

protected abstract boolean canBeJoinSource();

private RuntimeException illegalJoin() {
    return new IllegalArgumentException(
        "Collection of values [" + getPathIdentifier() + "] cannot be source of a join"
    );
}

@Override
@SuppressWarnings({ "unchecked" })
public Set<Join<X, ?>> getJoins() {
    return joins == null
        ? Collections.EMPTY_SET
        : joins;
}

@Override
public <Y> Join<X, Y> join(SingularAttribute<? super X, Y> singularAttribute) {
    return join( singularAttribute, DEFAULT_JOIN_TYPE );
}

@Override
public <Y> Join<X, Y> join(SingularAttribute<? super X, Y> attribute, JoinType jt) {
    if ( ! canBeJoinSource() ) {
        throw illegalJoin();
    }

    Join<X, Y> join = constructJoin( attribute, jt );
    joinScope.addJoin( join );
    return join;
}

private <Y> JoinImplementor<X, Y> constructJoin(SingularAttribute<? super X, Y> attribute, JoinType jt) {
    if ( Type.PersistenceType.BASIC.equals( attribute.getType().getPersistenceType() ) ) {
        throw new BasicPathUsageException( "Cannot join to attribute of basic type", attribute );
    }
}

// TODO : runtime check that the attribute in fact belongs to this From's model/bindable

```

```

if ( jt.equals( JoinType.RIGHT ) ) {
    throw new UnsupportedOperationException( "RIGHT JOIN not supported" );
}

final Class<Y> attributeType = attribute.getBindableJavaType();
return new SingularAttributeJoin<X,Y>(
    criteriaBuilder(),
    attributeType,
    this,
    attribute,
    jt
);
}

@Override
public <Y> CollectionJoin<X, Y> join(CollectionAttribute<? super X, Y> collection) {
    return join( collection, DEFAULT_JOIN_TYPE );
}

@Override
public <Y> CollectionJoin<X, Y> join(CollectionAttribute<? super X, Y> collection, JoinType jt) {
    if ( ! canBeJoinSource() ) {
        throw illegalJoin();
    }

    final CollectionJoin<X, Y> join = constructJoin( collection, jt );
    joinScope.addJoin( join );
    return join;
}

private <Y> CollectionJoinImplementor<X, Y> constructJoin(CollectionAttribute<? super X, Y> collection,
JoinType jt) {
    if ( jt.equals( JoinType.RIGHT ) ) {
        throw new UnsupportedOperationException( "RIGHT JOIN not supported" );
    }

    // TODO : runtime check that the attribute in fact belongs to this From's model/bindable

    final Class<Y> attributeType = collection.getBindableJavaType();
    return new CollectionAttributeJoin<X, Y>(
        criteriaBuilder(),
        attributeType,
        this,
        collection,
        jt
    );
}

```



```

@Override
public <Y> SetJoin<X, Y> join(SetAttribute<? super X, Y> set) {
    return join( set, DEFAULT_JOIN_TYPE );
}

@Override
public <Y> SetJoin<X, Y> join(SetAttribute<? super X, Y> set, JoinType jt) {
    if ( ! canBeJoinSource() ) {
        throw illegalJoin();
    }

    final SetJoin<X, Y> join = constructJoin( set, jt );
    joinScope.addJoin( join );
    return join;
}

private <Y> SetJoinImplementor<X, Y> constructJoin(SetAttribute<? super X, Y> set, JoinType jt) {
    if ( jt.equals( JoinType.RIGHT ) ) {
        throw new UnsupportedOperationException( "RIGHT JOIN not supported" );
    }

    // TODO : runtime check that the attribute in fact belongs to this From's model/bindable

    final Class<Y> attributeType = set.getBindableJavaType();
    return new SetAttributeJoin<X,Y>( criteriaBuilder(), attributeType, this, set, jt );
}

@Override
public <Y> ListJoin<X, Y> join(ListAttribute<? super X, Y> list) {
    return join( list, DEFAULT_JOIN_TYPE );
}

@Override
public <Y> ListJoin<X, Y> join(ListAttribute<? super X, Y> list, JoinType jt) {
    if ( ! canBeJoinSource() ) {
        throw illegalJoin();
    }

    final ListJoin<X, Y> join = constructJoin( list, jt );
    joinScope.addJoin( join );
    return join;
}

private <Y> ListJoinImplementor<X, Y> constructJoin(ListAttribute<? super X, Y> list, JoinType jt) {
    if ( jt.equals( JoinType.RIGHT ) ) {
        throw new UnsupportedOperationException( "RIGHT JOIN not supported" );
    }
}

```

```

// TODO : runtime check that the attribute in fact belongs to this From's model/bindable

final Class<Y> attributeType = list.getBindableJavaType();
return new ListAttributeJoin<X,Y>( criteriaBuilder(), attributeType, this, list, jt );
}

@Override
public <K, V> MapJoin<X, K, V> join(MapAttribute<? super X, K, V> map) {
    return join( map, DEFAULT_JOIN_TYPE );
}

@Override
public <K, V> MapJoin<X, K, V> join(MapAttribute<? super X, K, V> map, JoinType jt) {
    if ( ! canBeJoinSource() ) {
        throw illegalJoin();
    }

    final MapJoin<X, K, V> join = constructJoin( map, jt );
    joinScope.addJoin( join );
    return join;
}

private <K, V> MapJoinImplementor<X, K, V> constructJoin(MapAttribute<? super X, K, V> map, JoinType jt) {
    if ( jt.equals( JoinType.RIGHT ) ) {
        throw new UnsupportedOperationException( "RIGHT JOIN not supported" );
    }

    // TODO : runtime check that the attribute in fact belongs to this From's model/bindable

    final Class<V> attributeType = map.getBindableJavaType();
    return new MapAttributeJoin<X, K, V>( criteriaBuilder(), attributeType, this, map, jt );
}

@Override
public <X,Y> Join<X, Y> join(String attributeName) {
    return join( attributeName, DEFAULT_JOIN_TYPE );
}

@Override
@SuppressWarnings({ "unchecked" })
public <X,Y> Join<X, Y> join(String attributeName, JoinType jt) {
    if ( ! canBeJoinSource() ) {
        throw illegalJoin();
    }

    if ( jt.equals( JoinType.RIGHT ) ) {
        throw new UnsupportedOperationException( "RIGHT JOIN not supported" );
    }
}

```

```

}

final Attribute<X,?> attribute = (Attribute<X, ?>) locateAttribute( attributeName );
if ( attribute.isCollection() ) {
    final PluralAttribute pluralAttribute = ( PluralAttribute ) attribute;
    if ( PluralAttribute.CollectionType.COLLECTION.equals( pluralAttribute.getCollectionType() ) ) {
        return (Join<X,Y>) join( (CollectionAttribute) attribute, jt );
    }
    else if ( PluralAttribute.CollectionType.LIST.equals( pluralAttribute.getCollectionType() ) ) {
        return (Join<X,Y>) join( (ListAttribute) attribute, jt );
    }
    else if ( PluralAttribute.CollectionType.SET.equals( pluralAttribute.getCollectionType() ) ) {
        return (Join<X,Y>) join( (SetAttribute) attribute, jt );
    }
    else {
        return (Join<X,Y>) join( (MapAttribute) attribute, jt );
    }
}
else {
    return (Join<X,Y>) join( (SingularAttribute)attribute, jt );
}
}

@Override
public <X,Y> CollectionJoin<X, Y> joinCollection(String attributeName) {
    return joinCollection( attributeName, DEFAULT_JOIN_TYPE );
}

@Override
@SuppressWarnings({ "unchecked" })
public <X,Y> CollectionJoin<X, Y> joinCollection(String attributeName, JoinType jt) {
    final Attribute<X,?> attribute = (Attribute<X, ?>) locateAttribute( attributeName );
    if ( ! attribute.isCollection() ) {
        throw new IllegalArgumentException( "Requested attribute was not a collection" );
    }

    final PluralAttribute pluralAttribute = ( PluralAttribute ) attribute;
    if ( ! PluralAttribute.CollectionType.COLLECTION.equals( pluralAttribute.getCollectionType() ) ) {
        throw new IllegalArgumentException( "Requested attribute was not a collection" );
    }

    return (CollectionJoin<X,Y>) join( (CollectionAttribute) attribute, jt );
}

@Override
public <X,Y> SetJoin<X, Y> joinSet(String attributeName) {
    return joinSet( attributeName, DEFAULT_JOIN_TYPE );
}
}

```

```

@Override
@SuppressWarnings({ "unchecked" })
public <X,Y> SetJoin<X, Y> joinSet(String attributeName, JoinType jt) {
    final Attribute<X,?> attribute = (Attribute<X, ?>) locateAttribute( attributeName );
    if ( ! attribute.isCollection() ) {
        throw new IllegalArgumentException( "Requested attribute was not a set" );
    }

    final PluralAttribute pluralAttribute = ( PluralAttribute ) attribute;
    if ( ! PluralAttribute.CollectionType.SET.equals( pluralAttribute.getCollectionType() ) ) {
        throw new IllegalArgumentException( "Requested attribute was not a set" );
    }

    return (SetJoin<X,Y>) join( (SetAttribute) attribute, jt );
}

```

```

@Override
public <X,Y> ListJoin<X, Y> joinList(String attributeName) {
    return joinList( attributeName, DEFAULT_JOIN_TYPE );
}

```

```

@Override
@SuppressWarnings({ "unchecked" })
public <X,Y> ListJoin<X, Y> joinList(String attributeName, JoinType jt) {
    final Attribute<X,?> attribute = (Attribute<X, ?>) locateAttribute( attributeName );
    if ( ! attribute.isCollection() ) {
        throw new IllegalArgumentException( "Requested attribute was not a list" );
    }

    final PluralAttribute pluralAttribute = ( PluralAttribute ) attribute;
    if ( ! PluralAttribute.CollectionType.LIST.equals( pluralAttribute.getCollectionType() ) ) {
        throw new IllegalArgumentException( "Requested attribute was not a list" );
    }

    return (ListJoin<X,Y>) join( (ListAttribute) attribute, jt );
}

```

```

@Override
public <X, K, V> MapJoin<X, K, V> joinMap(String attributeName) {
    return joinMap( attributeName, DEFAULT_JOIN_TYPE );
}

```

```

@Override
@SuppressWarnings({ "unchecked" })
public <X, K, V> MapJoin<X, K, V> joinMap(String attributeName, JoinType jt) {
    final Attribute<X,?> attribute = (Attribute<X, ?>) locateAttribute( attributeName );
    if ( ! attribute.isCollection() ) {

```

```

        throw new IllegalArgumentException( "Requested attribute was not a map" );
    }

    final PluralAttribute pluralAttribute = ( PluralAttribute ) attribute;
    if ( ! PluralAttribute.CollectionType.MAP.equals( pluralAttribute.getCollectionType() ) ) {
        throw new IllegalArgumentException( "Requested attribute was not a map" );
    }

    return ( MapJoin<X,K,V> ) join( ( MapAttribute ) attribute, jt );
}

```

```
// FETCHES
```

```

~~~~~
~~~~~

```

```

protected boolean canBeFetchSource() {
    // the conditions should be the same...
    return canBeJoinSource();
}

```

```

private RuntimeException illegalFetch() {
    return new IllegalArgumentException(
        "Collection of values [" + getPathIdentifier() + "] cannot be source of a fetch"
    );
}

```

```

@Override
@SuppressWarnings({ "unchecked" })
public Set<Fetch<X, ?>> getFetches() {
    return fetches == null
        ? Collections.EMPTY_SET
        : fetches;
}

```

```

@Override
public <Y> Fetch<X, Y> fetch(SingularAttribute<? super X, Y> singularAttribute) {
    return fetch( singularAttribute, DEFAULT_JOIN_TYPE );
}

```

```

@Override
public <Y> Fetch<X, Y> fetch(SingularAttribute<? super X, Y> attribute, JoinType jt) {
    if ( ! canBeFetchSource() ) {
        throw illegalFetch();
    }
}

```

```

Fetch<X, Y> fetch = constructJoin( attribute, jt );
joinScope.addFetch( fetch );

```

```

return fetch;
}

@Override
public <Y> Fetch<X, Y> fetch(PluralAttribute<? super X, ?, Y> pluralAttribute) {
    return fetch( pluralAttribute, DEFAULT_JOIN_TYPE );
}

@Override
public <Y> Fetch<X, Y> fetch(PluralAttribute<? super X, ?, Y> pluralAttribute, JoinType jt) {
    if ( ! canBeFetchSource() ) {
        throw illegalFetch();
    }

    final Fetch<X, Y> fetch;
    // TODO : combine Fetch and Join hierarchies (JoinImplementor extends Join,Fetch???)
    if ( PluralAttribute.CollectionType.COLLECTION.equals( pluralAttribute.getCollectionType() ) ) {
        fetch = constructJoin( (CollectionAttribute<X,Y>) pluralAttribute, jt );
    }
    else if ( PluralAttribute.CollectionType.LIST.equals( pluralAttribute.getCollectionType() ) ) {
        fetch = constructJoin( (ListAttribute<X,Y>) pluralAttribute, jt );
    }
    else if ( PluralAttribute.CollectionType.SET.equals( pluralAttribute.getCollectionType() ) ) {
        fetch = constructJoin( (SetAttribute<X,Y>) pluralAttribute, jt );
    }
    else {
        fetch = constructJoin( (MapAttribute<X,?,Y>) pluralAttribute, jt );
    }
    joinScope.addFetch( fetch );
    return fetch;
}

@Override
public <X,Y> Fetch<X, Y> fetch(String attributeName) {
    return fetch( attributeName, DEFAULT_JOIN_TYPE );
}

@Override
@SuppressWarnings({ "unchecked" })
public <X,Y> Fetch<X, Y> fetch(String attributeName, JoinType jt) {
    if ( ! canBeFetchSource() ) {
        throw illegalFetch();
    }

    Attribute<X,?> attribute = (Attribute<X, ?>) locateAttribute( attributeName );
    if ( attribute.isCollection() ) {
        return (Fetch<X, Y>) fetch( (PluralAttribute) attribute, jt );
    }
}

```

```

else {
    return (Fetch<X, Y>) fetch( (SingularAttribute) attribute, jt );
}
}
}
/*
* Hibernate, Relational Persistence for Idiomatic Java
*
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* along with this distribution; if not, write to:
* Free Software Foundation, Inc.
* 51 Franklin Street, Fifth Floor
* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb.criteria.expression;

import java.io.Serializable;
import java.util.ArrayList;
import java.util.List;
import javax.persistence.Tuple;
import javax.persistence.criteria.CompoundSelection;
import javax.persistence.criteria.Selection;

import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.ParameterRegistry;
import org.hibernate.ejb.criteria.Renderable;
import org.hibernate.ejb.criteria.TupleElementImplementor;
import org.hibernate.ejb.criteria.ValueHandlerFactory;

/**
* The Hibernate implementation of the JPA {@link CompoundSelection}
* contract.
*

```

```

* @author Steve Ebersole
*/
public class CompoundSelectionImpl<X>
    extends SelectionImpl<X>
    implements CompoundSelection<X>, Renderable, Serializable {
    private final boolean isConstructor;
    private List<Selection<?>> selectionItems;

    public CompoundSelectionImpl(
        CriteriaBuilderImpl criteriaBuilder,
        Class<X> javaType,
        List<Selection<?>> selectionItems) {
        super( criteriaBuilder, javaType );
        this.isConstructor = !javaType.isArray() && !Tuple.class.isAssignableFrom( javaType );
        this.selectionItems = selectionItems;
    }

    @Override
    public boolean isCompoundSelection() {
        return true;
    }

    @Override
    public List<Selection<?>> getCompoundSelectionItems() {
        return selectionItems;
    }

    @Override
    public List<ValueHandlerFactory.ValueHandler> getValueHandlers() {
        if ( isConstructor ) {
            return null;
        }
        boolean foundHandlers = false;
        ArrayList<ValueHandlerFactory.ValueHandler> valueHandlers = new
        ArrayList<ValueHandlerFactory.ValueHandler>();
        for ( Selection selection : getCompoundSelectionItems() ) {
            ValueHandlerFactory.ValueHandler valueHandler = ( (TupleElementImplementor) selection ).getValueHandler();
            valueHandlers.add( valueHandler );
            foundHandlers = foundHandlers || valueHandler != null;
        }
        return foundHandlers ? null : valueHandlers;
    }

    public void registerParameters(ParameterRegistry registry) {
        for ( Selection selectionItem : getCompoundSelectionItems() ) {
            Helper.possibleParameter(selectionItem, registry);
        }
    }
}

```



```

public String render(CriteriaQueryCompiler.RenderingContext renderingContext) {
    StringBuilder buff = new StringBuilder();
    if ( isConstructor ) {
        buff.append( "new " ).append( getJavaType().getName() ).append( '(' );
    }
    String sep = "";
    for ( Selection selection : selectionItems ) {
        buff.append( sep )
            .append( ( (Renderable) selection ).renderProjection( renderingContext ) );
        sep = ", ";
    }
    if ( isConstructor ) {
        buff.append( ')' );
    }
    return buff.toString();
}

public String renderProjection(CriteriaQueryCompiler.RenderingContext renderingContext) {
    return render( renderingContext );
}
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
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 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria.expression;

import java.io.Serializable;

```

```

import java.math.BigDecimal;
import java.math.BigInteger;
import java.util.Collection;
import javax.persistence.criteria.Expression;
import javax.persistence.criteria.Predicate;

import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.ExpressionImplementor;
import org.hibernate.ejb.criteria.expression.function.CastFunction;

/**
 * Models an expression in the criteria query language.
 *
 * @author Steve Ebersole
 */
public abstract class ExpressionImpl<T>
    extends SelectionImpl<T>
    implements ExpressionImplementor<T>, Serializable {
    public ExpressionImpl(CriteriaBuilderImpl criteriaBuilder, Class<T> javaType) {
        super( criteriaBuilder, javaType );
    }

    /**
     * {@inheritDoc}
     */
    @SuppressWarnings({ "unchecked" })
    public <X> Expression<X> as(Class<X> type) {
        return type.equals( getJavaType() )
            ? (Expression<X>) this
            : new CastFunction<X, T>( criteriaBuilder(), type, this );
    }

    /**
     * {@inheritDoc}
     */
    public Predicate isNull() {
        return criteriaBuilder().isNull( this );
    }

    /**
     * {@inheritDoc}
     */
    public Predicate isNotNull() {
        return criteriaBuilder().isNotNull( this );
    }

    /**
     * {@inheritDoc}
     */

```

```

*/
    public Predicate in(Object... values) {
        return criteriaBuilder().in( this, values );
    }

/**
 * {@inheritDoc}
 */
public Predicate in(Expression<?>... values) {
    return criteriaBuilder().in( this, values );
}

/**
 * {@inheritDoc}
 */
public Predicate in(Collection<?> values) {
    return criteriaBuilder().in( this, values.toArray() );
}

/**
 * {@inheritDoc}
 */
public Predicate in(Expression<Collection<?>> values) {
    return criteriaBuilder().in( this, values );
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public ExpressionImplementor<Long> asLong() {
    resetJavaType( Long.class );
    return (ExpressionImplementor<Long>) this;
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public ExpressionImplementor<Integer> asInteger() {
    resetJavaType( Integer.class );
    return (ExpressionImplementor<Integer>) this;
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })

```

```

public ExpressionImplementor<Float> asFloat() {
    resetJavaType( Float.class );
    return (ExpressionImplementor<Float>) this;
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public ExpressionImplementor<Double> asDouble() {
    resetJavaType( Double.class );
    return (ExpressionImplementor<Double>) this;
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public ExpressionImplementor<BigDecimal> asBigDecimal() {
    resetJavaType( BigDecimal.class );
    return (ExpressionImplementor<BigDecimal>) this;
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public ExpressionImplementor<BigInteger> asBigInteger() {
    resetJavaType( BigInteger.class );
    return (ExpressionImplementor<BigInteger>) this;
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public ExpressionImplementor<String> asString() {
    resetJavaType( String.class );
    return (ExpressionImplementor<String>) this;
}
}
/*
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```

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 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA

*/

```
package org.hibernate.ejb.criteria.expression;
```

```
import java.io.Serializable;
import java.util.ArrayList;
import java.util.List;
import javax.persistence.criteria.CriteriaBuilder.SimpleCase;
import javax.persistence.criteria.Expression;
```

```
import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.ParameterRegistry;
import org.hibernate.ejb.criteria.Renderable;
```

/**

* Models what ANSI SQL terms a simple case statement. This is a <tt>CASE</tt> expression in the form<pre>
 * CASE [expression]
 * WHEN [firstCondition] THEN [firstResult]
 * WHEN [secondCondition] THEN [secondResult]
 * ELSE [defaultResult]
 * END
 * </pre>

*

* @author Steve Ebersole

*/

```
public class SimpleCaseExpression<C,R>
  extends ExpressionImpl<R>
  implements SimpleCase<C,R>, Serializable {
  private Class<R> javaType;
  private final Expression<? extends C> expression;
  private List<WhenClause> whenClauses = new ArrayList<WhenClause>();
  private Expression<? extends R> otherwiseResult;
```

```

public class WhenClause {
    private final C condition;
    private final Expression<? extends R> result;

    public WhenClause(C condition, Expression<? extends R> result) {
        this.condition = condition;
        this.result = result;
    }

    public C getCondition() {
        return condition;
    }

    public Expression<? extends R> getResult() {
        return result;
    }

}

public SimpleCaseExpression(
    CriteriaBuilderImpl criteriaBuilder,
    Class<R> javaType,
    Expression<? extends C> expression) {
    super( criteriaBuilder, javaType);
    this.javaType = javaType;
    this.expression = expression;
}

@SuppressWarnings({ "unchecked" })
public Expression<C> getExpression() {
    return (Expression<C>) expression;
}

public SimpleCase<C, R> when(C condition, R result) {
    return when( condition, buildLiteral(result) );
}

@SuppressWarnings({ "unchecked" })
private LiteralExpression<R> buildLiteral(R result) {
    final Class<R> type = result != null
        ? (Class<R>) result.getClass()
        : getJavaType();
    return new LiteralExpression<R>( criteriaBuilder(), type, result );
}

public SimpleCase<C, R> when(C condition, Expression<? extends R> result) {
    WhenClause whenClause = new WhenClause( condition, result );
    whenClauses.add( whenClause );
}

```

```

adjustJavaType( result );
return this;
}

@SuppressWarnings({ "unchecked" })
private void adjustJavaType(Expression<? extends R> exp) {
    if ( javaType == null ) {
        javaType = (Class<R>) exp.getJavaType();
    }
}

public Expression<R> otherwise(R result) {
    return otherwise( buildLiteral(result) );
}

public Expression<R> otherwise(Expression<? extends R> result) {
    this.otherwiseResult = result;
    adjustJavaType( result );
    return this;
}

public Expression<? extends R> getOtherwiseResult() {
    return otherwiseResult;
}

public List<WhenClause> getWhenClauses() {
    return whenClauses;
}

public void registerParameters(ParameterRegistry registry) {
    Helper.possibleParameter( getExpression(), registry );
    for ( WhenClause whenClause : getWhenClauses() ) {
        Helper.possibleParameter( whenClause.getResult(), registry );
    }
    Helper.possibleParameter( getOtherwiseResult(), registry );
}

public String render(CriteriaQueryCompiler.RenderingContext renderingContext) {
    StringBuilder caseExpr = new StringBuilder();
    caseExpr.append( "case " )
        .append( ( (Renderable) getExpression() ).render( renderingContext ) )
        .append( ' ' );
    for ( WhenClause whenClause : getWhenClauses() ) {
        caseExpr.append( ( (Renderable) whenClause.getCondition() ).render( renderingContext ) )
            .append( " then " )
            .append( ( (Renderable) whenClause.getResult() ).render( renderingContext ) );
    }
    caseExpr.append( " else " )

```

```

        .append( ( (Renderable) getOtherwiseResult() ).render( renderingContext ) )
        .append( " end" );
return caseExpr.toString();
}

public String renderProjection(CriteriaQueryCompiler.RenderingContext renderingContext) {
    return render( renderingContext );
}
}
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* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb.criteria.expression;

import java.io.Serializable;
import java.util.Collections;
import java.util.List;
import javax.persistence.criteria.Selection;

import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.ParameterContainer;
import org.hibernate.ejb.criteria.SelectionImplementor;
import org.hibernate.ejb.criteria.ValueHandlerFactory;

/**
* The Hibernate implementation of the JPA { @link Selection }
* contract.
*

```



```

* @author Steve Ebersole
*/
public abstract class SelectionImpl<X>
    extends AbstractTupleElement<X>
    implements SelectionImplementor<X>, ParameterContainer, Serializable {
    public SelectionImpl(CriteriaBuilderImpl criteriaBuilder, Class<X> javaType) {
        super( criteriaBuilder, javaType );
    }

    public Selection<X> alias(String alias) {
        setAlias( alias );
        return this;
    }

    public boolean isCompoundSelection() {
        return false;
    }

    public List<ValueHandlerFactory.ValueHandler> getValueHandlers() {
        return getValueHandler() == null
            ? null
            : Collections.singletonList( (ValueHandlerFactory.ValueHandler) getValueHandler() );
    }

    public List<Selection<?>> getCompoundSelectionItems() {
        throw new IllegalStateException( "Not a compound selection" );
    }
}
/*
* Hibernate, Relational Persistence for Idiomatic Java
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```

```

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* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb.criteria.expression;

import java.io.Serializable;
import javax.persistence.criteria.ParameterExpression;

import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.ParameterRegistry;

/**
 * Defines a parameter specification, or the information about a parameter (where it occurs, what is
 * its type, etc).
 *
 * @author Steve Ebersole
 */
public class ParameterExpressionImpl<T>
    extends ExpressionImpl<T>
    implements ParameterExpression<T>, Serializable {
    private final String name;
    private final Integer position;

    public ParameterExpressionImpl(
        CriteriaBuilderImpl criteriaBuilder,
        Class<T> javaType,
        String name) {
        super( criteriaBuilder, javaType );
        this.name = name;
        this.position = null;
    }

    public ParameterExpressionImpl(
        CriteriaBuilderImpl criteriaBuilder,
        Class<T> javaType,
        Integer position) {
        super( criteriaBuilder, javaType );
        this.name = null;
        this.position = position;
    }

    public ParameterExpressionImpl(
        CriteriaBuilderImpl criteriaBuilder,
        Class<T> javaType) {
        super( criteriaBuilder, javaType );
        this.name = null;
        this.position = null;
    }

```

```

}

public String getName() {
    return name;
}

public Integer getPosition() {
    return position;
}

public Class<T> getParameterType() {
    return getJavaType();
}

public void registerParameters(ParameterRegistry registry) {
    registry.registerParameter( this );
}

public String render(CriteriaQueryCompiler.RenderingContext renderingContext) {
    final String jpaqlParamName = renderingContext.registerExplicitParameter( this );
    return ':' + jpaqlParamName;
}

public String renderProjection(CriteriaQueryCompiler.RenderingContext renderingContext) {
    return render( renderingContext );
}
}
}
/*
* Hibernate, Relational Persistence for Idiomatic Java
*
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```

```

* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb.criteria.predicate;

import java.io.Serializable;
import java.util.List;
import javax.persistence.criteria.Predicate;
import javax.persistence.criteria.Selection;

import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.expression.ExpressionImpl;

/**
 * Basic template support for { @link Predicate } implementors providing
 * expression handling, negation and conjunction/disjunction handling.
 *
 * @author Steve Ebersole
 */
public abstract class AbstractPredicateImpl
    extends ExpressionImpl<Boolean>
    implements Predicate, Serializable {
    private boolean negated;

    protected AbstractPredicateImpl(CriteriaBuilderImpl criteriaBuilder) {
        super( criteriaBuilder, Boolean.class );
    }

    public boolean isNegated() {
        return negated;
    }

    public Predicate not() {
        negated = !negated;
        return this;
    }

    // Selection ~~~~~

    @Override
    public final boolean isCompoundSelection() {
        // Should always be false for predicates
        return super.isCompoundSelection();
    }

    @Override
    public final List<Selection<?>> getCompoundSelectionItems() {
        // Should never have sub selection items for predicates

```

```

return super.getCompoundSelectionItems();
}

}

/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 */
package org.hibernate.ejb.criteria.predicate;

import java.io.Serializable;
import java.util.Collections;
import java.util.List;
import javax.persistence.criteria.Expression;

import org.hibernate.ejb.criteria.CriteriaBuilderImpl;

/**
 * TODO : javadoc
 *
 * @author Steve Ebersole
 */
public abstract class AbstractSimplePredicate
    extends AbstractPredicateImpl
    implements Serializable {
    private static final List<Expression<Boolean>> NO_EXPRESSIONS = Collections.emptyList();

    public AbstractSimplePredicate(CriteriaBuilderImpl criteriaBuilder) {
        super( criteriaBuilder );
    }

```

```

}

public BooleanOperator getOperator() {
    return BooleanOperator.AND;
}

public final List<Expression<Boolean>> getExpressions() {
    return NO_EXPRESSIONS;
}

}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 */
package org.hibernate.ejb.criteria.predicate;

import java.math.BigDecimal;
import java.math.BigInteger;

/**
 * @author Steve Ebersole
 */
public class ImplicitNumericExpressionTypeDeterminer {
    /**
     * Determine the appropriate runtime result type for a numeric expression according to
     * section "6.5.7.1 Result Types of Expressions" of the JPA spec.
     * <p/>
     * Note that it is expected that the caveats about quotient handling have already been handled.
     */

```

```

*
* @param types The argument/expression types
*
* @return The appropriate numeric result type.
*/
public static Class<? extends Number> determineResultType(Class<? extends Number>... types) {
    Class<? extends Number> result = Number.class;

    for ( Class<? extends Number> type : types ) {
        if ( Double.class.equals( type ) ) {
            result = Double.class;
        }
        else if ( Float.class.equals( type ) ) {
            result = Float.class;
        }
        else if ( BigDecimal.class.equals( type ) ) {
            result = BigDecimal.class;
        }
        else if ( BigInteger.class.equals( type ) ) {
            result = BigInteger.class;
        }
        else if ( Long.class.equals( type ) ) {
            result = Long.class;
        }
        else if ( isIntegralType( type ) ) {
            result = Integer.class;
        }
    }

    return result;
}

private static boolean isIntegralType(Class<? extends Number> type) {
    return Integer.class.equals( type ) ||
        Short.class.equals( type );
}
}
}
/*
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*/

```
package org.hibernate.ejb.metamodel;
```

```
import org.hibernate.engine.spi.SessionFactoryImplementor;  
import org.hibernate.internal.util.collections.CollectionHelper;  
import org.hibernate.mapping.MappedSuperclass;  
import org.hibernate.mapping.PersistentClass;
```

```
import java.io.Serializable;  
import java.util.HashSet;  
import java.util.Iterator;  
import java.util.Map;  
import java.util.Set;  
import javax.persistence.metamodel.*;
```

```
/**
```

```
* Hibernate implementation of the JPA { @link Metamodel } contract.
```

```
*
```

```
* @author Steve Ebersole
```

```
* @author Emmanuel Bernard
```

```
*/
```

```
public class MetamodelImpl implements Metamodel, Serializable {  
    private final Map<Class<?>, EntityTypeImpl<?>> entities;  
    private final Map<Class<?>, EmbeddableTypeImpl<?>> embeddables;  
    private final Map<Class<?>, MappedSuperclassType<?>> mappedSuperclassTypeMap;  
    private final Map<String, EntityTypeImpl<?>> entityTypesByEntityName;
```

```
/**
```

```
* Build the metamodel using the information from the collection of Hibernate
```

```
* { @link PersistentClass } models as well as the Hibernate { @link org.hibernate.SessionFactory }.
```

```
*
```

```
* @param persistentClasses Iterator over the Hibernate (config-time) metamodel
```

```
* @param sessionFactory The Hibernate session factory.
```

```
* @return The built metamodel
```

```
*
```

```
* @deprecated use { @link
```

```
#buildMetamodel(java.util.Iterator,org.hibernate.engine.spi.SessionFactoryImplementor,boolean)} instead
```

```
*/
```



```

@Deprecated
public static MetamodelImpl buildMetamodel(
    Iterator<PersistentClass> persistentClasses,
    SessionFactoryImplementor sessionFactory) {
    return buildMetamodel(persistentClasses, sessionFactory, false);
}

/**
 * Build the metamodel using the information from the collection of Hibernate
 * { @link PersistentClass } models as well as the Hibernate { @link org.hibernate.SessionFactory }.
 *
 * @param persistentClasses Iterator over the Hibernate (config-time) metamodel
 * @param sessionFactory The Hibernate session factory.
 * @param ignoreUnsupported ignore unsupported/unknown annotations (like @Any)
 * @return The built metamodel
 */
public static MetamodelImpl buildMetamodel(
    Iterator<PersistentClass> persistentClasses,
    SessionFactoryImplementor sessionFactory,
    boolean ignoreUnsupported) {
    MetadataContext context = new MetadataContext( sessionFactory, ignoreUnsupported );
    while ( persistentClasses.hasNext() ) {
        PersistentClass pc = persistentClasses.next();
        locateOrBuildEntityType( pc, context );
    }
    context.wrapUp();
    return new MetamodelImpl( context.getEntityTypeMap(), context.getEmbeddableTypeMap(),
    context.getMappedSuperclassTypeMap(), context.getEntityTypesByEntityName() );
}

private static EntityTypeImpl<?> locateOrBuildEntityType(PersistentClass persistentClass, MetadataContext
context) {
    EntityTypeImpl<?> entityType = context.locateEntityType( persistentClass );
    if ( entityType == null ) {
        entityType = buildEntityType( persistentClass, context );
    }
    return entityType;
}

//TODO remove / reduce @SW scope
@SuppressWarnings( "unchecked" )
private static EntityTypeImpl<?> buildEntityType(PersistentClass persistentClass, MetadataContext context) {
    final Class javaType = persistentClass.getMappedClass();
    context.pushEntityWorkedOn(persistentClass);
    final MappedSuperclass superMappedSuperclass = persistentClass.getSuperMappedSuperclass();
    AbstractIdentifiableType<?> superType = superMappedSuperclass == null
    ? null
    : locateOrBuildMappedsuperclassType( superMappedSuperclass, context );
}

```

```

//no mappedSuperclass, check for a super entity
if (superType == null) {
    final PersistentClass superPersistentClass = persistentClass.getSuperclass();
    superType = superPersistentClass == null
        ? null
        : locateOrBuildEntityType( superPersistentClass, context );
}
EntityTypeImpl entityType = new EntityTypeImpl(
    javaType,
    superType,
    persistentClass.getJpaEntityName(),
    persistentClass.hasIdentifierProperty(),
    persistentClass.isVersioned()
);

    entityType.setTypeNames(persistentClass.getEntityName());

    context.registerEntityType( persistentClass, entityType );
context.popEntityWorkedOn(persistentClass);
return entityType;
}

private static MappedSuperclassTypeImpl<?> locateOrBuildMappedsuperclassType(
    MappedSuperclass mappedSuperclass, MetadataContext context) {
    MappedSuperclassTypeImpl<?> mappedSuperclassType = context.locateMappedSuperclassType(
mappedSuperclass );
    if ( mappedSuperclassType == null ) {
        mappedSuperclassType = buildMappedSuperclassType(mappedSuperclass, context);
    }
    return mappedSuperclassType;
}

//TODO remove / reduce @SW scope
@SuppressWarnings( "unchecked" )
private static MappedSuperclassTypeImpl<?> buildMappedSuperclassType(MappedSuperclass mappedSuperclass,
    MetadataContext context) {
    final MappedSuperclass superMappedSuperclass = mappedSuperclass.getSuperMappedSuperclass();
    AbstractIdentifiableType<?> superType = superMappedSuperclass == null
        ? null
        : locateOrBuildMappedsuperclassType( superMappedSuperclass, context );
//no mappedSuperclass, check for a super entity
if (superType == null) {
    final PersistentClass superPersistentClass = mappedSuperclass.getSuperPersistentClass();
    superType = superPersistentClass == null
        ? null
        : locateOrBuildEntityType( superPersistentClass, context );
}
    final Class javaType = mappedSuperclass.getMappedClass();

```

```

MappedSuperclassTypeImpl mappedSuperclassType = new MappedSuperclassTypeImpl(
    javaType,
    superType,
    mappedSuperclass.hasIdentifierProperty(),
    mappedSuperclass.isVersioned()
);
context.registerMappedSuperclassType( mappedSuperclass, mappedSuperclassType );
return mappedSuperclassType;
}

/**
 * Instantiate the metamodel.
 *
 * @param entities The entity mappings.
 * @param embeddables The embeddable (component) mappings.
 * @param mappedSuperclassTypeMap The { @link javax.persistence.MappedSuperclass } mappings
 */
private MetamodelImpl(
    Map<Class<?>, EntityTypeImpl<?>> entities,
    Map<Class<?>, EmbeddableTypeImpl<?>> embeddables,
    Map<Class<?>, MappedSuperclassType<?>> mappedSuperclassTypeMap,
    Map<String, EntityTypeImpl<?>> entityTypesByEntityName) {
    this.entities = entities;
    this.embeddables = embeddables;
    this.mappedSuperclassTypeMap = mappedSuperclassTypeMap;
    this.entityTypesByEntityName = entityTypesByEntityName;
}

@Override
@SuppressWarnings({ "unchecked" })
public <X> EntityType<X> entity(Class<X> cls) {
    final EntityType<?> entityType = entities.get( cls );
    if ( entityType == null ) {
        throw new IllegalArgumentException( "Not an entity: " + cls );
    }
    return (EntityType<X>) entityType;
}

@Override
@SuppressWarnings({ "unchecked" })
public <X> ManagedType<X> managedType(Class<X> cls) {
    ManagedType<?> type = entities.get( cls );
    if ( type == null ) {
        type = mappedSuperclassTypeMap.get( cls );
    }
    if ( type == null ) {
        type = embeddables.get( cls );
    }
}

```

```

if ( type == null ) {
    throw new IllegalArgumentException( "Not an managed type: " + cls );
}
return (ManagedType<X>) type;
}

@Override
@SuppressWarnings({ "unchecked" })
public <X> EmbeddableType<X> embeddable(Class<X> cls) {
    final EmbeddableType<?> embeddableType = embeddables.get( cls );
    if ( embeddableType == null ) {
        throw new IllegalArgumentException( "Not an embeddable: " + cls );
    }
    return (EmbeddableType<X>) embeddableType;
}

@Override
public Set<ManagedType<?>> getManagedTypes() {
    final int setSize = CollectionHelper.determineProperSizing(
        entities.size() + mappedSuperclassTypeMap.size() + embeddables.size()
    );
    final Set<ManagedType<?>> managedTypes = new HashSet<ManagedType<?>>( setSize );
    managedTypes.addAll( entities.values() );
    managedTypes.addAll( mappedSuperclassTypeMap.values() );
    managedTypes.addAll( embeddables.values() );
    return managedTypes;
}

@Override
public Set<EntityType<?>> getEntities() {
    return new HashSet<EntityType<?>>( entityTypeByName.values() );
}

@Override
public Set<EmbeddableType<?>> getEmbeddables() {
    return new HashSet<EmbeddableType<?>>( embeddables.values() );
}
}
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*/

```
package org.hibernate.ejb.metamodel;  
import java.io.Serializable;  
import javax.persistence.metamodel.BasicType;
```

```
/**
```

```
 * @author Emmanuel Bernard
```

```
*/
```

```
public class BasicTypeImpl<X> implements BasicType<X>, Serializable {  
    private final Class<X> clazz;  
    private PersistenceType persistenceType;
```

```
    public PersistenceType getPersistenceType() {  
        return persistenceType;  
    }
```

```
    public Class<X> getJavaType() {  
        return clazz;  
    }
```

```
    public BasicTypeImpl(Class<X> clazz, PersistenceType persistenceType) {  
        this.clazz = clazz;  
        this.persistenceType = persistenceType;  
    }  
}
```

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```

package org.apache.thrift;

```
/**
```

```

* Utility methods for use when encoding/decoding raw data as byte arrays.
*/
public class EncodingUtils {

/**
 * Encode integer as a series of 4 bytes into buf
 * starting at position 0 within that buffer.
 *
 * @param integer
 *     The integer to encode.
 * @param buf
 *     The buffer to write to.
 */
public static final void encodeBigEndian(final int integer, final byte[] buf) {
    encodeBigEndian(integer, buf, 0);
}

/**
 * Encode integer as a series of 4 bytes into buf
 * starting at position offset.
 *
 * @param integer
 *     The integer to encode.
 * @param buf
 *     The buffer to write to.
 * @param offset
 *     The offset within buf to start the encoding.
 */
public static final void encodeBigEndian(final int integer, final byte[] buf, int offset) {
    buf[offset] = (byte) (0xff & (integer >> 24));
    buf[offset + 1] = (byte) (0xff & (integer >> 16));
    buf[offset + 2] = (byte) (0xff & (integer >> 8));
    buf[offset + 3] = (byte) (0xff & (integer));
}

/**
 * Decode a series of 4 bytes from buf, starting at position 0,
 * and interpret them as an integer.
 *
 * @param buf
 *     The buffer to read from.
 * @return An integer, as read from the buffer.
 */
public static final int decodeBigEndian(final byte[] buf) {
    return decodeBigEndian(buf, 0);
}

/**

```

```

* Decode a series of 4 bytes from <code>buf</code>, start at
* <code>offset</code>, and interpret them as an integer.
*
* @param buf
*     The buffer to read from.
* @param offset
*     The offset with <code>buf</code> to start the decoding.
* @return An integer, as read from the buffer.
*/
public static final int decodeBigEndian(final byte[] buf, int offset) {
    return ((buf[offset] & 0xff) << 24) | ((buf[offset + 1] & 0xff) << 16)
        | ((buf[offset + 2] & 0xff) << 8) | ((buf[offset + 3] & 0xff));
}
}

```

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<http://svn.jackson.codehaus.org/browse/jackson/trunk/README.txt?hb=true>

== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found

from:

<http://jackson.codehaus.org/>

which also has links to support forums such as mailing lists, as well

as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

- * Reading (parsing) and writing (generation) of Json content
- * Data-binding (data-mapping, [de-]serialization) support to allow for converting between Json and Java objects
- * Support for converting to/from other data formats and access APIs, to improve interoperability.

=== Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made to support other non-standard platforms as well.

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1.59 Data Mapper for Jackson 1.9.12

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v 1.2

<http://developer.apple.com/samplecode/AppleJavaExtensions/AppleJavaExtensions.html>

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AppleJavaExtensions
v 1.2

This is a pluggable jar of stub classes representing the new Apple eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these stubs is to allow for compilation of eAWT- or eIO-referencing code on platforms other than Mac OS X. The jar file is enclosed in a zip archive for easy expansion on other platforms.

These stubs are not intended for the runtime classpath on non-Mac platforms. Please see the OSXAdapter sample for how to write cross-platform code that uses eAWT.

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1.68 geronimo-jms_1.1_spec 1.1.1

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1.69 governor-annotations 1.10.4

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1.70 Gson 2.3.1

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```
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 */
```

```
package com.google.gson.internal;
```

```
import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
```

```
/**
 * Contains static utility methods pertaining to primitive types and their
 * corresponding wrapper types.
 *
 * @author Kevin Bourrillion
 */
```

```
public final class Primitives {
    private Primitives() {}
```

```
/** A map from primitive types to their corresponding wrapper types. */
    private static final Map<Class<?>, Class<?>> PRIMITIVE_TO_WRAPPER_TYPE;
```

```
/** A map from wrapper types to their corresponding primitive types. */
```

```

private static final Map<Class<?>, Class<?>> WRAPPER_TO_PRIMITIVE_TYPE;

// Sad that we can't use a BiMap. :(

static {
    Map<Class<?>, Class<?>> primToWrap = new HashMap<Class<?>, Class<?>>(16);
    Map<Class<?>, Class<?>> wrapToPrim = new HashMap<Class<?>, Class<?>>(16);

    add(primToWrap, wrapToPrim, boolean.class, Boolean.class);
    add(primToWrap, wrapToPrim, byte.class, Byte.class);
    add(primToWrap, wrapToPrim, char.class, Character.class);
    add(primToWrap, wrapToPrim, double.class, Double.class);
    add(primToWrap, wrapToPrim, float.class, Float.class);
    add(primToWrap, wrapToPrim, int.class, Integer.class);
    add(primToWrap, wrapToPrim, long.class, Long.class);
    add(primToWrap, wrapToPrim, short.class, Short.class);
    add(primToWrap, wrapToPrim, void.class, Void.class);

    PRIMITIVE_TO_WRAPPER_TYPE = Collections.unmodifiableMap(primToWrap);
    WRAPPER_TO_PRIMITIVE_TYPE = Collections.unmodifiableMap(wrapToPrim);
}

private static void add(Map<Class<?>, Class<?>> forward,
    Map<Class<?>, Class<?>> backward, Class<?> key, Class<?> value) {
    forward.put(key, value);
    backward.put(value, key);
}

/**
 * Returns true if this type is a primitive.
 */
public static boolean isPrimitive(Type type) {
    return PRIMITIVE_TO_WRAPPER_TYPE.containsKey(type);
}

/**
 * Returns { @code true } if { @code type } is one of the nine
 * primitive-wrapper types, such as { @link Integer }.
 *
 * @see Class#isPrimitive
 */
public static boolean isWrapperType(Type type) {
    return WRAPPER_TO_PRIMITIVE_TYPE.containsKey(
        $Gson$Preconditions.checkNotNull(type));
}

/**
 * Returns the corresponding wrapper type of { @code type } if it is a primitive

```

```

* type; otherwise returns {@code type} itself. Idempotent.
* <pre>
*   wrap(int.class) == Integer.class
*   wrap(Integer.class) == Integer.class
*   wrap(String.class) == String.class
* </pre>
*/
public static <T> Class<T> wrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> wrapped = (Class<T>) PRIMITIVE_TO_WRAPPER_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (wrapped == null) ? type : wrapped;
}

/**
* Returns the corresponding primitive type of {@code type} if it is a
* wrapper type; otherwise returns {@code type} itself. Idempotent.
* <pre>
*   unwrap(Integer.class) == int.class
*   unwrap(int.class) == int.class
*   unwrap(String.class) == String.class
* </pre>
*/
public static <T> Class<T> unwrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> unwrapped = (Class<T>) WRAPPER_TO_PRIMITIVE_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (unwrapped == null) ? type : unwrapped;
}
}
}

```

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1.76 Guava: Google Core Libraries for Java 16.0.1

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1.77 guice 4.0

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1.82 hornetq-core 2.2.21.Final

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1.114 jackson-datatype-joda 2.5.2

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1.115 Jackson-JAXRS-base 2.2.2

1.116 Jackson-JAXRS-JSON 2.2.2

1.117 Jackson-module-JAXB-annotations 2.2.2

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1.118 Java 1.5 Parser and AST 1.0.8

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1.1

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1.1

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1.9.2

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== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found from:

<http://jackson.codehaus.org/>

which also has links to support forums such as mailing lists, as well as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

- * Reading (parsing) and writing (generation) of Json content
- * Data-binding (data-mapping, [de-]serialization) support to allow for converting between Json and Java objects
- * Support for converting to/from other data formats and access APIs, to improve interoperability.

=== Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made to support other non-standard platforms as well.

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```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
```

```
<!DOCTYPE html
```

```
  PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml"><head><title xmlns:d="http://docbook.org/ns/docbook"
xmlns:rf="java.org.jboss.highlight.XhtmlRendererFactory">Chapter2.License</title><link rel="stylesheet"
href="css/jbossorg.css" type="text/css"/><meta xmlns:d="http://docbook.org/ns/docbook"
```

```
xmlns:rf="java.org.jboss.highlight.XhtmlRendererFactory" name="generator" content="DocBook XSL-NS
Stylesheets V1.74.0"/><meta xmlns:d="http://docbook.org/ns/docbook"
```

```
xmlns:rf="java.org.jboss.highlight.XhtmlRendererFactory" http-equiv="Content-Type" content="text/html;
charset=UTF-8"/><link rel="home" href="index.html" title="REStEasy JAX-RS"/><link rel="up"
```

```
href="index.html" title="REStEasy JAX-RS"/><link rel="prev" href="Overview.html"
```

```
title="Chapter1.Overview"/><link rel="next" href="Installation_Configuration.html"
```

```
title="Chapter3.Installation/Configuration"/></head><body><p xmlns:d="http://docbook.org/ns/docbook"
```

```
id="title"><a href="http://www.jboss.org" class="site_href"><strong>JBoss.org</strong></a><a
```

```
href="http://docs.jboss.org/" class="doc_href"><strong>Community Documentation</strong></a></p><ul
```

```
xmlns:d="http://docbook.org/ns/docbook" class="docnav"><li class="previous"><a accesskey="p"
```

```
href="Overview.html"><strong>Prev</strong></a></li><li class="next"><a accesskey="n"
```

```
href="Installation_Configuration.html"><strong>Next</strong></a></li></ul><div class="chapter" lang="en-
```

```
US"><div class="titlepage"><div><div><h2 class="title"><a
```

```
id="license"/>Chapter2.License</h2></div></div></div>
```

```
<p>REStEasy is distributed under the ASL 2.0 license. It does not distribute any thirdparty libraries that are
```

```
  GPL. It does ship thirdparty libraries licensed under
```

```
  Apache ASL 2.0 and LGPL.
```

```
</p>
```

```
</div><ul xmlns:d="http://docbook.org/ns/docbook" class="docnav"><li class="previous"><a accesskey="p"
```

```
href="Overview.html"><strong>Prev</strong>Chapter1.Overview</a></li><li class="up"><a accesskey="u"
```

```
href="#"><strong>Top of page</strong></a></li><li class="home"><a accesskey="h"
```

```
href="index.html"><strong>Front page</strong></a></li><li class="next"><a accesskey="n"
```

```
href="Installation_Configuration.html"><strong>Next</strong>Chapter3.Installation/Configuration</a></li></ul><
```

```
/body></html>
```

1.133 jboss-jms-api_2.0_spec 1.0.0.Final

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```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

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```
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```

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1.135 jboss-logging-spi 2.1.2.GA

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1.186 jumi-actors 0.1.196

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Refactored SqlBuilder class (SQL, AbstractSQL)

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1.204 netflix-infix 0.1.2

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1.205 Netty 3.2.6.Final

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1.208 netty-all 4.0.13.Final

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 */
```

```
package io.netty.util.internal.chmv8;
```

```
import java.util.concurrent.RecursiveAction;
```

```
/**
 * A {@link ForkJoinTask} with a completion action performed when
 * triggered and there are no remaining pending actions.
 * CountedCompleters are in general more robust in the
 * presence of subtask stalls and blockage than are other forms of
 * ForkJoinTasks, but are less intuitive to program. Uses of
 * CountedCompleter are similar to those of other completion based
 * components (such as {@link java.nio.channels.CompletionHandler})
 * except that multiple pending completions may be necessary
 * to trigger the completion action {@link #onCompletion(CountedCompleter)},
 * not just one.
 * Unless initialized otherwise, the {@linkplain #getPendingCount pending
 * count} starts at zero, but may be (atomically) changed using
 * methods {@link #setPendingCount}, {@link #addToPendingCount}, and
 * {@link #compareAndSetPendingCount}. Upon invocation of {@link
 * #tryComplete}, if the pending action count is nonzero, it is
 * decremented; otherwise, the completion action is performed, and if
 * this completer itself has a completer, the process is continued
 * with its completer. As is the case with related synchronization
 * components such as {@link java.util.concurrent.Phaser Phaser} and
 * {@link java.util.concurrent.Semaphore Semaphore}, these methods
```

* affect only internal counts; they do not establish any further
* internal bookkeeping. In particular, the identities of pending
* tasks are not maintained. As illustrated below, you can create
* subclasses that do record some or all pending tasks or their
* results when needed. As illustrated below, utility methods
* supporting customization of completion traversals are also
* provided. However, because CountedCompleters provide only basic
* synchronization mechanisms, it may be useful to create further
* abstract subclasses that maintain linkages, fields, and additional
* support methods appropriate for a set of related usages.

*
* <p>A concrete CountedCompleter class must define method { @link
* #compute }, that should in most cases (as illustrated below), invoke
* { @code tryComplete() } once before returning. The class may also
* optionally override method { @link #onCompletion(CountedCompleter) }
* to perform an action upon normal completion, and method
* { @link #onExceptionalCompletion(Throwable, CountedCompleter) } to
* perform an action upon any exception.

*
* <p>CountedCompleters most often do not bear results, in which case
* they are normally declared as { @code CountedCompleter<Void> }, and
* will always return { @code null } as a result value. In other cases,
* you should override method { @link #getRawResult } to provide a
* result from { @code join(), invoke() }, and related methods. In
* general, this method should return the value of a field (or a
* function of one or more fields) of the CountedCompleter object that
* holds the result upon completion. Method { @link #setRawResult } by
* default plays no role in CountedCompleters. It is possible, but
* rarely applicable, to override this method to maintain other
* objects or fields holding result data.

*
* <p>A CountedCompleter that does not itself have a completer (i.e.,
* one for which { @link #getCompleter } returns { @code null }) can be
* used as a regular ForkJoinTask with this added functionality.
* However, any completer that in turn has another completer serves
* only as an internal helper for other computations, so its own task
* status (as reported in methods such as { @link ForkJoinTask#isDone })
* is arbitrary; this status changes only upon explicit invocations of
* { @link #complete }, { @link ForkJoinTask#cancel },
* { @link ForkJoinTask#completeExceptionally(Throwable) } or upon
* exceptional completion of method { @code compute }. Upon any
* exceptional completion, the exception may be relayed to a task's
* completer (and its completer, and so on), if one exists and it has
* not otherwise already completed. Similarly, cancelling an internal
* CountedCompleter has only a local effect on that completer, so is
* not often useful.

*
* <p>Sample Usages.</p>

*
 * **Parallel recursive decomposition.** CountedCompleters may
 * be arranged in trees similar to those often used with { @link
 * RecursiveAction}s, although the constructions involved in setting
 * them up typically vary. Here, the completer of each task is its
 * parent in the computation tree. Even though they entail a bit more
 * bookkeeping, CountedCompleters may be better choices when applying
 * a possibly time-consuming operation (that cannot be further
 * subdivided) to each element of an array or collection; especially
 * when the operation takes a significantly different amount of time
 * to complete for some elements than others, either because of
 * intrinsic variation (for example I/O) or auxiliary effects such as
 * garbage collection. Because CountedCompleters provide their own
 * continuations, other threads need not block waiting to perform
 * them.

*
 * For example, here is an initial version of a class that uses
 * divide-by-two recursive decomposition to divide work into single
 * pieces (leaf tasks). Even when work is split into individual calls,
 * tree-based techniques are usually preferable to directly forking
 * leaf tasks, because they reduce inter-thread communication and
 * improve load balancing. In the recursive case, the second of each
 * pair of subtasks to finish triggers completion of its parent
 * (because no result combination is performed, the default no-op
 * implementation of method { @code onCompletion} is not overridden).
 * A static utility method sets up the base task and invokes it
 * (here, implicitly using the { @link ForkJoinPool#commonPool()}).

```
* <pre> { @code
* class MyOperation<E> { void apply(E e) { ... } }
*
* class ForEach<E> extends CountedCompleter<Void> {
*
*   public static <E> void forEach(E[] array, MyOperation<E> op) {
*     new ForEach<E>(null, array, op, 0, array.length).invoke();
*   }
*
*   final E[] array; final MyOperation<E> op; final int lo, hi;
*   ForEach(CountedCompleter<?> p, E[] array, MyOperation<E> op, int lo, int hi) {
*     super(p);
*     this.array = array; this.op = op; this.lo = lo; this.hi = hi;
*   }
*
*   public void compute() { // version 1
*     if (hi - lo >= 2) {
*       int mid = (lo + hi) >>> 1;
*       setPendingCount(2); // must set pending count before fork
*       new ForEach(this, array, op, mid, hi).fork(); // right child
```

```

*   new ForEach(this, array, op, lo, mid).fork(); // left child
*   }
*   else if (hi > lo)
*     op.apply(array[lo]);
*   tryComplete();
*   }
* }</pre>

```

* This design can be improved by noticing that in the recursive case,
 * the task has nothing to do after forking its right task, so can
 * directly invoke its left task before returning. (This is an analog
 * of tail recursion removal.) Also, because the task returns upon
 * executing its left task (rather than falling through to invoke
 * {`tryComplete()`} the pending count is set to one:

```

* <pre> { @code
* class ForEach<E> ...
*   public void compute() { // version 2
*     if (hi - lo >= 2) {
*       int mid = (lo + hi) >>> 1;
*       setPendingCount(1); // only one pending
*       new ForEach(this, array, op, mid, hi).fork(); // right child
*       new ForEach(this, array, op, lo, mid).compute(); // direct invoke
*     }
*     else {
*       if (hi > lo)
*         op.apply(array[lo]);
*       tryComplete();
*     }
*   }
* }</pre>

```

* As a further improvement, notice that the left task need not even exist.
 * Instead of creating a new one, we can iterate using the original task,
 * and add a pending count for each fork. Additionally, because no task
 * in this tree implements an {[onCompletion\(CountedCompleter\)](#)} method,
 * {`tryComplete()`} can be replaced with {[propagateCompletion](#)}.

```

* <pre> { @code
* class ForEach<E> ...
*   public void compute() { // version 3
*     int l = lo, h = hi;
*     while (h - l >= 2) {
*       int mid = (l + h) >>> 1;
*       addToPendingCount(1);
*       new ForEach(this, array, op, mid, h).fork(); // right child
*       h = mid;
*     }

```

```

*   if (h > 1)
*       op.apply(array[l]);
*   propagateCompletion();
*   }
* }</pre>
*
* Additional improvements of such classes might entail precomputing
* pending counts so that they can be established in constructors,
* specializing classes for leaf steps, subdividing by say, four,
* instead of two per iteration, and using an adaptive threshold
* instead of always subdividing down to single elements.
*
* <p><b>Searching.</b> A tree of CountedCompleters can search for a
* value or property in different parts of a data structure, and
* report a result in an { @link
* java.util.concurrent.atomic.AtomicReference AtomicReference } as
* soon as one is found. The others can poll the result to avoid
* unnecessary work. (You could additionally { @linkplain #cancel
* cancel } other tasks, but it is usually simpler and more efficient
* to just let them notice that the result is set and if so skip
* further processing.) Illustrating again with an array using full
* partitioning (again, in practice, leaf tasks will almost always
* process more than one element):
*
* <pre> { @code
* class Searcher<E> extends CountedCompleter<E> {
*     final E[] array; final AtomicReference<E> result; final int lo, hi;
*     Searcher(CountedCompleter<?> p, E[] array, AtomicReference<E> result, int lo, int hi) {
*         super(p);
*         this.array = array; this.result = result; this.lo = lo; this.hi = hi;
*     }
*     public E getRawResult() { return result.get(); }
*     public void compute() { // similar to ForEach version 3
*         int l = lo, h = hi;
*         while (result.get() == null && h >= l) {
*             if (h - l >= 2) {
*                 int mid = (l + h) >>> 1;
*                 addToPendingCount(1);
*                 new Searcher(this, array, result, mid, h).fork();
*                 h = mid;
*             }
*             else {
*                 E x = array[l];
*                 if (matches(x) && result.compareAndSet(null, x))
*                     quietlyCompleteRoot(); // root task is now joinable
*                 break;
*             }
*         }
*     }
* }

```



```

* tryComplete(); // normally complete whether or not found
* }
* boolean matches(E e) { ... } // return true if found
*
* public static <E> E search(E[] array) {
*     return new Searcher<E>(null, array, new AtomicReference<E>(), 0, array.length).invoke();
* }
* }</pre>

```

* In this example, as well as others in which tasks have no other effects except to compareAndSet a common result, the trailing unconditional invocation of { @code tryComplete } could be made conditional ({ @code if (result.get() == null) tryComplete(); }) because no further bookkeeping is required to manage completions once the root task completes.

* **Recording subtasks.** CountedCompleter tasks that combine results of multiple subtasks usually need to access these results in method { @link #onCompletion(CountedCompleter) }. As illustrated in the following class (that performs a simplified form of map-reduce where mappings and reductions are all of type { @code E }), one way to do this in divide and conquer designs is to have each subtask record its sibling, so that it can be accessed in method { @code onCompletion }. This technique applies to reductions in which the order of combining left and right results does not matter; ordered reductions require explicit left/right designations. Variants of other streamlinings seen in the above examples may also apply.

```

* <pre> { @code
* class MyMapper<E> { E apply(E v) { ... } }
* class MyReducer<E> { E apply(E x, E y) { ... } }
* class MapReducer<E> extends CountedCompleter<E> {
*     final E[] array; final MyMapper<E> mapper;
*     final MyReducer<E> reducer; final int lo, hi;
*     MapReducer<E> sibling;
*     E result;
*     MapReducer(CountedCompleter<?> p, E[] array, MyMapper<E> mapper,
*         MyReducer<E> reducer, int lo, int hi) {
*         super(p);
*         this.array = array; this.mapper = mapper;
*         this.reducer = reducer; this.lo = lo; this.hi = hi;
*     }
*     public void compute() {
*         if (hi - lo >= 2) {
*             int mid = (lo + hi) >>> 1;
*             MapReducer<E> left = new MapReducer(this, array, mapper, reducer, lo, mid);
*             MapReducer<E> right = new MapReducer(this, array, mapper, reducer, mid, hi);
*             left.sibling = right;

```

```

*   right.sibling = left;
*   setPendingCount(1); // only right is pending
*   right.fork();
*   left.compute();    // directly execute left
* }
* else {
*   if (hi > lo)
*     result = mapper.apply(array[lo]);
*   tryComplete();
* }
* }
* public void onCompletion(CountedCompleter<?> caller) {
*   if (caller != this) {
*     MapReducer<E> child = (MapReducer<E>)caller;
*     MapReducer<E> sib = child.sibling;
*     if (sib == null || sib.result == null)
*       result = child.result;
*     else
*       result = reducer.apply(child.result, sib.result);
*   }
* }
* public E getRawResult() { return result; }
*
* public static <E> E mapReduce(E[] array, MyMapper<E> mapper, MyReducer<E> reducer) {
*   return new MapReducer<E>(null, array, mapper, reducer,
*     0, array.length).invoke();
* }
* }</pre>

```

Here, method `onCompletion` takes a form common to many completion designs that combine results. This callback-style method is triggered once per task, in either of the two different contexts in which the pending count is, or becomes, zero: (1) by a task itself, if its pending count is zero upon invocation of `tryComplete`, or (2) by any of its subtasks when they complete and decrement the pending count to zero. The `caller` argument distinguishes cases. Most often, when the caller is `this`, no action is necessary. Otherwise the caller argument can be used (usually via a cast) to supply a value (and/or links to other values) to be combined. Assuming proper use of pending counts, the actions inside `onCompletion` occur (once) upon completion of a task and its subtasks. No additional synchronization is required within this method to ensure thread safety of accesses to fields of this task or other completed tasks.

Completion Traversals. If using `onCompletion` to process completions is inapplicable or inconvenient, you can use methods `firstComplete` and `nextComplete` to create

* custom traversals. For example, to define a MapReducer that only

* splits out right-hand tasks in the form of the third ForEach

* example, the completions must cooperatively reduce along

* unexhausted subtask links, which can be done as follows:

```

* <pre> { @code
* class MapReducer<E> extends CountedCompleter<E> { // version 2
*   final E[] array; final MyMapper<E> mapper;
*   final MyReducer<E> reducer; final int lo, hi;
*   MapReducer<E> forks, next; // record subtask forks in list
*   E result;
*   MapReducer(CountedCompleter<?> p, E[] array, MyMapper<E> mapper,
*     MyReducer<E> reducer, int lo, int hi, MapReducer<E> next) {
*     super(p);
*     this.array = array; this.mapper = mapper;
*     this.reducer = reducer; this.lo = lo; this.hi = hi;
*     this.next = next;
*   }
*   public void compute() {
*     int l = lo, h = hi;
*     while (h - l >= 2) {
*       int mid = (l + h) >>> 1;
*       addToPendingCount(1);
*       (forks = new MapReducer(this, array, mapper, reducer, mid, h, forks)).fork();
*       h = mid;
*     }
*     if (h > 1)
*       result = mapper.apply(array[l]);
*     // process completions by reducing along and advancing subtask links
*     for (CountedCompleter<?> c = firstComplete(); c != null; c = c.nextComplete()) {
*       for (MapReducer t = (MapReducer)c, s = t.forks; s != null; s = t.forks = s.next)
*         t.result = reducer.apply(t.result, s.result);
*     }
*   }
*   public E getRawResult() { return result; }
*
*   public static <E> E mapReduce(E[] array, MyMapper<E> mapper, MyReducer<E> reducer) {
*     return new MapReducer<E>(null, array, mapper, reducer,
*       0, array.length, null).invoke();
*   }
* }</pre>
*
* <p><b>Triggers.</b> Some CountedCompleters are themselves never
* forked, but instead serve as bits of plumbing in other designs;
* including those in which the completion of one or more async tasks
* triggers another async task. For example:
*
* <pre> { @code

```

```

* class HeaderBuilder extends CountedCompleter<...> { ... }
* class BodyBuilder extends CountedCompleter<...> { ... }
* class PacketSender extends CountedCompleter<...> {
*   PacketSender(...) { super(null, 1); ... } // trigger on second completion
*   public void compute() { } // never called
*   public void onCompletion(CountedCompleter<?> caller) { sendPacket(); }
* }
* // sample use:
* PacketSender p = new PacketSender();
* new HeaderBuilder(p, ...).fork();
* new BodyBuilder(p, ...).fork();
* }</pre>
*
* @since 1.8
* @author Doug Lea
*/
@SuppressWarnings("all")
public abstract class CountedCompleter<T> extends ForkJoinTask<T> {
    private static final long serialVersionUID = 5232453752276485070L;

    /** This task's completer, or null if none */
    final CountedCompleter<?> completer;
    /** The number of pending tasks until completion */
    volatile int pending;

    /**
     * Creates a new CountedCompleter with the given completer
     * and initial pending count.
     *
     * @param completer this task's completer, or {@code null} if none
     * @param initialPendingCount the initial pending count
     */
    protected CountedCompleter(CountedCompleter<?> completer,
                               int initialPendingCount) {
        this.completer = completer;
        this.pending = initialPendingCount;
    }

    /**
     * Creates a new CountedCompleter with the given completer
     * and an initial pending count of zero.
     *
     * @param completer this task's completer, or {@code null} if none
     */
    protected CountedCompleter(CountedCompleter<?> completer) {
        this.completer = completer;
    }
}

```

```

/**
 * Creates a new CountedCompleter with no completer
 * and an initial pending count of zero.
 */
protected CountedCompleter() {
    this.completer = null;
}

/**
 * The main computation performed by this task.
 */
public abstract void compute();

/**
 * Performs an action when method {@link #tryComplete} is invoked
 * and the pending count is zero, or when the unconditional
 * method {@link #complete} is invoked. By default, this method
 * does nothing. You can distinguish cases by checking the
 * identity of the given caller argument. If not equal to {@code
 * this}, then it is typically a subtask that may contain results
 * (and/or links to other results) to combine.
 *
 * @param caller the task invoking this method (which may
 * be this task itself)
 */
public void onCompletion(CountedCompleter<?> caller) {
}

/**
 * Performs an action when method {@link
 * #completeExceptionally(Throwable)} is invoked or method {@link
 * #compute} throws an exception, and this task has not already
 * otherwise completed normally. On entry to this method, this task
 * {@link ForkJoinTask#isCompletedAbnormally}. The return value
 * of this method controls further propagation: If {@code true}
 * and this task has a completer that has not completed, then that
 * completer is also completed exceptionally, with the same
 * exception as this completer. The default implementation of
 * this method does nothing except return {@code true}.
 *
 * @param ex the exception
 * @param caller the task invoking this method (which may
 * be this task itself)
 * @return {@code true} if this exception should be propagated to this
 * task's completer, if one exists
 */
public boolean onExceptionalCompletion(Throwable ex, CountedCompleter<?> caller) {
    return true;
}

```

```

}

/**
 * Returns the completer established in this task's constructor,
 * or { @code null } if none.
 *
 * @return the completer
 */
public final CountedCompleter<?> getCompleter() {
    return completer;
}

/**
 * Returns the current pending count.
 *
 * @return the current pending count
 */
public final int getPendingCount() {
    return pending;
}

/**
 * Sets the pending count to the given value.
 *
 * @param count the count
 */
public final void setPendingCount(int count) {
    pending = count;
}

/**
 * Adds (atomically) the given value to the pending count.
 *
 * @param delta the value to add
 */
public final void addToPendingCount(int delta) {
    int c;
    do {} while (!U.compareAndSwapInt(this, PENDING, c = pending, c+delta));
}

/**
 * Sets (atomically) the pending count to the given count only if
 * it currently holds the given expected value.
 *
 * @param expected the expected value
 * @param count the new value
 * @return { @code true } if successful
 */

```

```

public final boolean compareAndSetPendingCount(int expected, int count) {
    return U.compareAndSwapInt(this, PENDING, expected, count);
}

/**
 * If the pending count is nonzero, (atomically) decrements it.
 *
 * @return the initial (undecremented) pending count holding on entry
 * to this method
 */
public final int decrementPendingCountUnlessZero() {
    int c;
    do {} while ((c = pending) != 0 &&
        !U.compareAndSwapInt(this, PENDING, c, c - 1));
    return c;
}

/**
 * Returns the root of the current computation; i.e., this
 * task if it has no completer, else its completer's root.
 *
 * @return the root of the current computation
 */
public final CountedCompleter<?> getRoot() {
    CountedCompleter<?> a = this, p;
    while ((p = a.completer) != null)
        a = p;
    return a;
}

/**
 * If the pending count is nonzero, decrements the count;
 * otherwise invokes {@link #onCompletion(CountedCompleter)}
 * and then similarly tries to complete this task's completer,
 * if one exists, else marks this task as complete.
 */
public final void tryComplete() {
    CountedCompleter<?> a = this, s = a;
    for (int c;;) {
        if ((c = a.pending) == 0) {
            a.onCompletion(s);
            if ((a = (s = a).completer) == null) {
                s.quietlyComplete();
                return;
            }
        }
        else if (U.compareAndSwapInt(a, PENDING, c, c - 1))
            return;
    }
}

```

```

    }
}

/**
 * Equivalent to {@link #tryComplete} but does not invoke {@link
 * #onCompletion(CountedCompleter)} along the completion path:
 * If the pending count is nonzero, decrements the count;
 * otherwise, similarly tries to complete this task's completer, if
 * one exists, else marks this task as complete. This method may be
 * useful in cases where {@code onCompletion} should not, or need
 * not, be invoked for each completer in a computation.
 */
public final void propagateCompletion() {
    CountedCompleter<?> a = this, s = a;
    for (int c;;) {
        if ((c = a.pending) == 0) {
            if ((a = (s = a).completer) == null) {
                s.quietlyComplete();
                return;
            }
        }
        else if (U.compareAndSwapInt(a, PENDING, c, c - 1))
            return;
    }
}

/**
 * Regardless of pending count, invokes
 * {@link #onCompletion(CountedCompleter)}, marks this task as
 * complete and further triggers {@link #tryComplete} on this
 * task's completer, if one exists. The given rawResult is
 * used as an argument to {@link #setRawResult} before invoking
 * {@link #onCompletion(CountedCompleter)} or marking this task
 * as complete; its value is meaningful only for classes
 * overriding {@code setRawResult}. This method does not modify
 * the pending count.
 *
 * <p>This method may be useful when forcing completion as soon as
 * any one (versus all) of several subtask results are obtained.
 * However, in the common (and recommended) case in which {@code
 * setRawResult} is not overridden, this effect can be obtained
 * more simply using {@code quietlyCompleteRoot();}.
 *
 * @param rawResult the raw result
 */
public void complete(T rawResult) {
    CountedCompleter<?> p;
    setRawResult(rawResult);
}

```



```

    onCompletion(this);
    quietlyComplete();
    if ((p = completer) != null)
        p.tryComplete();
}

/**
 * If this task's pending count is zero, returns this task;
 * otherwise decrements its pending count and returns {@code
 * null}. This method is designed to be used with {@link
 * #nextComplete} in completion traversal loops.
 *
 * @return this task, if pending count was zero, else {@code null}
 */
public final CountedCompleter<?> firstComplete() {
    for (int c;;) {
        if ((c = pending) == 0)
            return this;
        else if (U.compareAndSwapInt(this, PENDING, c, c - 1))
            return null;
    }
}

/**
 * If this task does not have a completer, invokes {@link
 * ForkJoinTask#quietlyComplete} and returns {@code null}. Or, if
 * the completer's pending count is non-zero, decrements that
 * pending count and returns {@code null}. Otherwise, returns the
 * completer. This method can be used as part of a completion
 * traversal loop for homogeneous task hierarchies:
 *
 * <pre> { @code
 * for (CountedCompleter<?> c = firstComplete();
 *     c != null;
 *     c = c.nextComplete()) {
 * // ... process c ...
 * } }</pre>
 *
 * @return the completer, or {@code null} if none
 */
public final CountedCompleter<?> nextComplete() {
    CountedCompleter<?> p;
    if ((p = completer) != null)
        return p.firstComplete();
    else {
        quietlyComplete();
        return null;
    }
}

```

```

    }
}

/**
 * Equivalent to {@code getRoot().quietlyComplete()}.
 */
public final void quietlyCompleteRoot() {
    for (CountedCompleter<?> a = this, p;;) {
        if ((p = a.completer) == null) {
            a.quietlyComplete();
            return;
        }
        a = p;
    }
}

/**
 * Supports ForkJoinTask exception propagation.
 */
void internalPropagateException(Throwable ex) {
    CountedCompleter<?> a = this, s = a;
    while (a.onExceptionalCompletion(ex, s) &&
        (a = (s = a).completer) != null && a.status >= 0 &&
        a.recordExceptionalCompletion(ex) == EXCEPTIONAL)
        ;
}

/**
 * Implements execution conventions for CountedCompleters.
 */
protected final boolean exec() {
    compute();
    return false;
}

/**
 * Returns the result of the computation. By default
 * returns {@code null}, which is appropriate for {@code Void}
 * actions, but in other cases should be overridden, almost
 * always to return a field or function of a field that
 * holds the result upon completion.
 *
 * @return the result of the computation
 */
public T getRawResult() { return null; }

/**
 * A method that result-bearing CountedCompleters may optionally

```

```

* use to help maintain result data. By default, does nothing.
* Overrides are not recommended. However, if this method is
* overridden to update existing objects or fields, then it must
* in general be defined to be thread-safe.
*/
protected void setRawResult(T t) { }

// Unsafe mechanics
private static final sun.misc.Unsafe U;
private static final long PENDING;
static {
    try {
        U = getUnsafe();
        PENDING = U.objectFieldOffset
            (CountedCompleter.class.getDeclaredField("pending"));
    } catch (Exception e) {
        throw new Error(e);
    }
}

/**
 * Returns a sun.misc.Unsafe. Suitable for use in a 3rd party package.
 * Replace with a simple call to Unsafe.getUnsafe when integrating
 * into a jdk.
 *
 * @return a sun.misc.Unsafe
 */
private static sun.misc.Unsafe getUnsafe() {
    try {
        return sun.misc.Unsafe.getUnsafe();
    } catch (SecurityException tryReflectionInstead) {}
    try {
        return java.security.AccessController.doPrivileged
            (new java.security.PrivilegedExceptionAction<sun.misc.Unsafe>() {
                public sun.misc.Unsafe run() throws Exception {
                    Class<sun.misc.Unsafe> k = sun.misc.Unsafe.class;
                    for (java.lang.reflect.Field f : k.getDeclaredFields()) {
                        f.setAccessible(true);
                        Object x = f.get(null);
                        if (k.isInstance(x))
                            return k.cast(x);
                    }
                    throw new NoSuchFieldError("the Unsafe");
                }
            });
    } catch (java.security.PrivilegedActionException e) {
        throw new RuntimeException("Could not initialize intrinsics",
            e.getCause());
    }
}

```

```

    }
}
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 * under the License.
 */

package io.netty.util.concurrent;

import java.util.concurrent.TimeUnit;

/**
 * A skeletal {@link Future} implementation which represents a {@link Future} which has been completed already.
 */
public abstract class CompleteFuture<V> extends AbstractFuture<V> {

    private final EventExecutor executor;

    /**
     * Creates a new instance.
     *
     * @param executor the {@link EventExecutor} associated with this future
     */
    protected CompleteFuture(EventExecutor executor) {
        this.executor = executor;
    }

    /**
     * Return the {@link EventExecutor} which is used by this {@link CompleteFuture}.
     */
    protected EventExecutor executor() {
        return executor;
    }

    @Override
    public Future<V> addListener(GenericFutureListener<? extends Future<? super V>> listener) {
        if (listener == null) {

```

```

        throw new NullPointerException("listener");
    }
    DefaultPromise.notifyListener(executor(), this, listener);
    return this;
}

@Override
public Future<V> addListeners(GenericFutureListener<? extends Future<? super V>>... listeners) {
    if (listeners == null) {
        throw new NullPointerException("listeners");
    }
    for (GenericFutureListener<? extends Future<? super V>> l: listeners) {
        if (l == null) {
            break;
        }
        DefaultPromise.notifyListener(executor(), this, l);
    }
    return this;
}

@Override
public Future<V> removeListener(GenericFutureListener<? extends Future<? super V>> listener) {
    // NOOP
    return this;
}

@Override
public Future<V> removeListeners(GenericFutureListener<? extends Future<? super V>>... listeners) {
    // NOOP
    return this;
}

@Override
public Future<V> await() throws InterruptedException {
    if (Thread.interrupted()) {
        throw new InterruptedException();
    }
    return this;
}

@Override
public boolean await(long timeout, TimeUnit unit) throws InterruptedException {
    if (Thread.interrupted()) {
        throw new InterruptedException();
    }
    return true;
}

```

```

@Override
public Future<V> sync() throws InterruptedException {
    return this;
}

@Override
public Future<V> syncUninterruptibly() {
    return this;
}

@Override
public boolean await(long timeoutMillis) throws InterruptedException {
    if (Thread.interrupted()) {
        throw new InterruptedException();
    }
    return true;
}

@Override
public Future<V> awaitUninterruptibly() {
    return this;
}

@Override
public boolean awaitUninterruptibly(long timeout, TimeUnit unit) {
    return true;
}

@Override
public boolean awaitUninterruptibly(long timeoutMillis) {
    return true;
}

@Override
public boolean isDone() {
    return true;
}

@Override
public boolean isCancellable() {
    return false;
}

@Override
public boolean isCancelled() {
    return false;
}

```

```

@Override
public boolean cancel(boolean mayInterruptIfRunning) {
    return false;
}
}
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 * under the License.
 */

package io.netty.util;

/**
 * An {@link IllegalStateException} which is raised when a user attempts to access a {@link ReferenceCounted}
 * whose
 * reference count has been decreased to 0 (and consequently freed).
 */
public class IllegalReferenceCountException extends IllegalStateException {

    private static final long serialVersionUID = -2507492394288153468L;

    public IllegalReferenceCountException() { }

    public IllegalReferenceCountException(int refCnt) {
        this("refCnt: " + refCnt);
    }

    public IllegalReferenceCountException(int refCnt, int increment) {
        this("refCnt: " + refCnt + ", " + (increment > 0 ? "increment: " + increment : "decrement: " + -increment));
    }

    public IllegalReferenceCountException(String message) {
        super(message);
    }

    public IllegalReferenceCountException(String message, Throwable cause) {
        super(message, cause);
    }

```

```

    }

    public IllegalReferenceCountException(Throwable cause) {
        super(cause);
    }
}
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 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
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 * under the License.
 */
package io.netty.channel;

import io.netty.util.ReferenceCountUtil;
import io.netty.util.internal.TypeParameterMatcher;

/**
 * {@link ChannelInboundHandlerAdapter} which allows to explicit only handle a specific type of messages.
 *
 * For example here is an implementation which only handle {@link String} messages.
 *
 * <pre>
 * public class StringHandler extends
 *     {@link SimpleChannelInboundHandler}&lt;{@link String}&gt; {
 *
 *     {@code @Override}
 *     protected void channelRead0({@link ChannelHandlerContext} ctx, {@link String} message)
 *         throws {@link Exception} {
 *         System.out.println(message);
 *     }
 * }
 * </pre>
 *
 * Be aware that depending of the constructor parameters it will release all handled messages.
 *
 * <h3>Forward compatibility notice</h3>
 * <p>
 * Please keep in mind that {@link #channelRead0(ChannelHandlerContext, Object)} will be renamed to

```



```

* {@code messageReceived(ChannelHandlerContext, I)} in 5.0.
* </p>
*/
public abstract class SimpleChannelInboundHandler<I> extends ChannelInboundHandlerAdapter {

    private final TypeParameterMatcher matcher;
    private final boolean autoRelease;

    /**
     * @see {@link #SimpleChannelInboundHandler(boolean)} with {@code true} as boolean parameter.
     */
    protected SimpleChannelInboundHandler() {
        this(true);
    }

    /**
     * Create a new instance which will try to detect the types to match out of the type parameter of the class.
     *
     * @param autoRelease {@code true} if handled messages should be released automatically by pass them to
     *     {@link ReferenceCountUtil#release(Object)}.
     */
    protected SimpleChannelInboundHandler(boolean autoRelease) {
        matcher = TypeParameterMatcher.find(this, SimpleChannelInboundHandler.class, "I");
        this.autoRelease = autoRelease;
    }

    /**
     * @see {@link #SimpleChannelInboundHandler(Class, boolean)} with {@code true} as boolean value.
     */
    protected SimpleChannelInboundHandler(Class<? extends I> inboundMessageType) {
        this(inboundMessageType, true);
    }

    /**
     * Create a new instance
     *
     * @param inboundMessageType The type of messages to match
     * @param autoRelease {@code true} if handled messages should be released automatically by pass them to
     *     {@link ReferenceCountUtil#release(Object)}.
     */
    protected SimpleChannelInboundHandler(Class<? extends I> inboundMessageType, boolean autoRelease) {
        matcher = TypeParameterMatcher.get(inboundMessageType);
        this.autoRelease = autoRelease;
    }

    /**
     * Returns {@code true} if the given message should be handled. If {@code false} it will be passed to the next
     * {@link ChannelInboundHandler} in the {@link ChannelPipeline}.

```

```

*/
public boolean acceptInboundMessage(Object msg) throws Exception {
    return matcher.match(msg);
}

@Override
public void channelRead(ChannelHandlerContext ctx, Object msg) throws Exception {
    boolean release = true;
    try {
        if (acceptInboundMessage(msg)) {
            @SuppressWarnings("unchecked")
            I imsg = (I) msg;
            channelRead0(ctx, imsg);
        } else {
            release = false;
            ctx.fireChannelRead(msg);
        }
    } finally {
        if (autoRelease && release) {
            ReferenceCountUtil.release(msg);
        }
    }
}

/**
 * <strong>Please keep in mind that this method will be renamed to
 * { @code messageReceived(ChannelHandlerContext, I) } in 5.0.</strong>
 *
 * Is called for each message of type { @link I}.
 *
 * @param ctx      the { @link ChannelHandlerContext } which this { @link SimpleChannelInboundHandler }
 *                  belongs to
 * @param msg      the message to handle
 * @throws Exception is thrown if an error occurred
 */
protected abstract void channelRead0(ChannelHandlerContext ctx, I msg) throws Exception;
}

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```

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* under the License.
*/

```
package io.netty.channel;
```

```
import io.netty.util.concurrent.CompleteFuture;  
import io.netty.util.concurrent.EventExecutor;  
import io.netty.util.concurrent.Future;  
import io.netty.util.concurrent.GenericFutureListener;
```

```
/**
```

```
* A skeletal {@link ChannelFuture} implementation which represents a  
* {@link ChannelFuture} which has been completed already.
```

```
*/
```

```
abstract class CompleteChannelFuture extends CompleteFuture<Void> implements ChannelFuture {
```

```
    private final Channel channel;
```

```
    /**
```

```
     * Creates a new instance.
```

```
     *
```

```
     * @param channel the {@link Channel} associated with this future
```

```
     */
```

```
    protected CompleteChannelFuture(Channel channel, EventExecutor executor) {
```

```
        super(executor);
```

```
        if (channel == null) {
```

```
            throw new NullPointerException("channel");
```

```
        }
```

```
        this.channel = channel;
```

```
    }
```

```
    @Override
```

```
    protected EventExecutor executor() {
```

```
        EventExecutor e = super.executor();
```

```
        if (e == null) {
```

```
            return channel().eventLoop();
```

```
        } else {
```

```
            return e;
```

```
        }
```

```
    }
```

```
    @Override
```

```
    public ChannelFuture addListener(GenericFutureListener<? extends Future<? super Void>> listener) {
```

```
        super.addListener(listener);
```

```
        return this;
```

```
    }
```

```

@Override
public ChannelFuture addListeners(GenericFutureListener<? extends Future<? super Void>>... listeners) {
    super.addListeners(listeners);
    return this;
}

@Override
public ChannelFuture removeListener(GenericFutureListener<? extends Future<? super Void>> listener) {
    super.removeListener(listener);
    return this;
}

@Override
public ChannelFuture removeListeners(GenericFutureListener<? extends Future<? super Void>>... listeners) {
    super.removeListeners(listeners);
    return this;
}

@Override
public ChannelFuture syncUninterruptibly() {
    return this;
}

@Override
public ChannelFuture sync() throws InterruptedException {
    return this;
}

@Override
public ChannelFuture await() throws InterruptedException {
    return this;
}

@Override
public ChannelFuture awaitUninterruptibly() {
    return this;
}

@Override
public Channel channel() {
    return channel;
}

@Override
public Void getNow() {
    return null;
}
}

```

```

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 */
package io.netty.buffer;

```

```

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;

```

```

/**
 * A derived buffer which simply forwards all data access requests to its
 * parent. It is recommended to use { @link ByteBuffer#duplicate() } instead
 * of calling the constructor explicitly.
 */
public class DuplicatedByteBuffer extends AbstractDerivedByteBuffer {

```

```

    private final ByteBuffer buffer;

    public DuplicatedByteBuffer(ByteBuffer buffer) {
        super(buffer.maxCapacity());

        if (buffer instanceof DuplicatedByteBuffer) {
            this.buffer = ((DuplicatedByteBuffer) buffer).buffer;
        } else {
            this.buffer = buffer;
        }

        setIndex(buffer.readerIndex(), buffer.writerIndex());
    }

```

```

    @Override

```

```

public ByteBuf unwrap() {
    return buffer;
}

@Override
public ByteBufAllocator alloc() {
    return buffer.alloc();
}

@Override
public ByteOrder order() {
    return buffer.order();
}

@Override
public boolean isDirect() {
    return buffer.isDirect();
}

@Override
public int capacity() {
    return buffer.capacity();
}

@Override
public ByteBuf capacity(int newCapacity) {
    buffer.capacity(newCapacity);
    return this;
}

@Override
public boolean hasArray() {
    return buffer.hasArray();
}

@Override
public byte[] array() {
    return buffer.array();
}

@Override
public int arrayOffset() {
    return buffer.arrayOffset();
}

@Override
public boolean hasMemoryAddress() {
    return buffer.hasMemoryAddress();
}

```

```

}

@Override
public long memoryAddress() {
    return buffer.memoryAddress();
}

@Override
public byte getByte(int index) {
    return _getByte(index);
}

@Override
protected byte _getByte(int index) {
    return buffer.getByte(index);
}

@Override
public short getShort(int index) {
    return _getShort(index);
}

@Override
protected short _getShort(int index) {
    return buffer.getShort(index);
}

@Override
public int getUnsignedMedium(int index) {
    return _getUnsignedMedium(index);
}

@Override
protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index);
}

@Override
public int getInt(int index) {
    return _getInt(index);
}

@Override
protected int _getInt(int index) {
    return buffer.getInt(index);
}

@Override

```

```

public long getLong(int index) {
    return _getLong(index);
}

@Override
protected long _getLong(int index) {
    return buffer.getLong(index);
}

@Override
public ByteBuf copy(int index, int length) {
    return buffer.copy(index, length);
}

@Override
public ByteBuf slice(int index, int length) {
    return buffer.slice(index, length);
}

@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
    buffer.getBytes(index, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
    buffer.getBytes(index, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, ByteBuffer dst) {
    buffer.getBytes(index, dst);
    return this;
}

@Override
public ByteBuf setByte(int index, int value) {
    _setByte(index, value);
    return this;
}

@Override
protected void _setByte(int index, int value) {
    buffer.setByte(index, value);
}

```



```

@Override
public ByteBuffer setShort(int index, int value) {
    _setShort(index, value);
    return this;
}

@Override
protected void _setShort(int index, int value) {
    buffer.setShort(index, value);
}

@Override
public ByteBuffer setMedium(int index, int value) {
    _setMedium(index, value);
    return this;
}

@Override
protected void _setMedium(int index, int value) {
    buffer.setMedium(index, value);
}

@Override
public ByteBuffer setInt(int index, int value) {
    _setInt(index, value);
    return this;
}

@Override
protected void _setInt(int index, int value) {
    buffer.setInt(index, value);
}

@Override
public ByteBuffer setLong(int index, long value) {
    _setLong(index, value);
    return this;
}

@Override
protected void _setLong(int index, long value) {
    buffer.setLong(index, value);
}

@Override
public ByteBuffer setBytes(int index, byte[] src, int srcIndex, int length) {
    buffer.setBytes(index, src, srcIndex, length);
    return this;
}

```

```

}

@Override
public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
    buffer.setBytes(index, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuffer src) {
    buffer.setBytes(index, src);
    return this;
}

@Override
public ByteBuf getBytes(int index, OutputStream out, int length)
    throws IOException {
    buffer.getBytes(index, out, length);
    return this;
}

@Override
public int getBytes(int index, GatheringByteChannel out, int length)
    throws IOException {
    return buffer.getBytes(index, out, length);
}

@Override
public int setBytes(int index, InputStream in, int length)
    throws IOException {
    return buffer.setBytes(index, in, length);
}

@Override
public int setBytes(int index, ScatteringByteChannel in, int length)
    throws IOException {
    return buffer.setBytes(index, in, length);
}

@Override
public int.nioBufferCount() {
    return buffer.nioBufferCount();
}

@Override
public ByteBuffer[] nioBuffers(int index, int length) {
    return buffer.nioBuffers(index, length);
}

```

```

@Override
public ByteBuffer internalNioBuffer(int index, int length) {
    return nioBuffer(index, length);
}

@Override
public int forEachByte(int index, int length, ByteBufProcessor processor) {
    return buffer.forEachByte(index, length, processor);
}

@Override
public int forEachByteDesc(int index, int length, ByteBufProcessor processor) {
    return buffer.forEachByteDesc(index, length, processor);
}
}
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 */
package io.netty.buffer;

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;

/**
 * A derived buffer which exposes its parent's sub-region only. It is
 * recommended to use {@link ByteBuf#slice()} and
 * {@link ByteBuf#slice(int, int)} instead of calling the constructor
 * explicitly.
 */

```

```

public class SlicedByteBuf extends AbstractDerivedByteBuf {

    private final ByteBuf buffer;
    private final int adjustment;
    private final int length;

    public SlicedByteBuf(ByteBuf buffer, int index, int length) {
        super(length);
        if (index < 0 || index > buffer.capacity() - length) {
            throw new IndexOutOfBoundsException(buffer.toString() + ".slice(" + index + ", " + length + ')');
        }

        if (buffer instanceof SlicedByteBuf) {
            this.buffer = ((SlicedByteBuf) buffer).buffer;
            adjustment = ((SlicedByteBuf) buffer).adjustment + index;
        } else if (buffer instanceof DuplicatedByteBuf) {
            this.buffer = buffer.unwrap();
            adjustment = index;
        } else {
            this.buffer = buffer;
            adjustment = index;
        }
        this.length = length;

        writerIndex(length);
    }

    @Override
    public ByteBuf unwrap() {
        return buffer;
    }

    @Override
    public ByteBufAllocator alloc() {
        return buffer.alloc();
    }

    @Override
    public ByteOrder order() {
        return buffer.order();
    }

    @Override
    public boolean isDirect() {
        return buffer.isDirect();
    }

    @Override

```

```

public int capacity() {
    return length;
}

@Override
public ByteBuf capacity(int newCapacity) {
    throw new UnsupportedOperationException("sliced buffer");
}

@Override
public boolean hasArray() {
    return buffer.hasArray();
}

@Override
public byte[] array() {
    return buffer.array();
}

@Override
public int arrayOffset() {
    return buffer.arrayOffset() + adjustment;
}

@Override
public boolean hasMemoryAddress() {
    return buffer.hasMemoryAddress();
}

@Override
public long memoryAddress() {
    return buffer.memoryAddress() + adjustment;
}

@Override
protected byte _getBytes(int index) {
    return buffer.getBytes(index + adjustment);
}

@Override
protected short _getShort(int index) {
    return buffer.getShort(index + adjustment);
}

@Override
protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index + adjustment);
}

```

```

@Override
protected int _getInt(int index) {
    return buffer.getInt(index + adjustment);
}

@Override
protected long _getLong(int index) {
    return buffer.getLong(index + adjustment);
}

@Override
public ByteBuf duplicate() {
    ByteBuf duplicate = buffer.slice(adjustment, length);
    duplicate.setIndex(readerIndex(), writerIndex());
    return duplicate;
}

@Override
public ByteBuf copy(int index, int length) {
    checkIndex(index, length);
    return buffer.copy(index + adjustment, length);
}

@Override
public ByteBuf slice(int index, int length) {
    checkIndex(index, length);
    if (length == 0) {
        return Unpooled.EMPTY_BUFFER;
    }
    return buffer.slice(index + adjustment, length);
}

@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, dst, dstIndex, length);
    return this;
}

@Override

```

```

public ByteBuf getBytes(int index, ByteBuffer dst) {
    checkIndex(index, dst.remaining());
    buffer.getBytes(index + adjustment, dst);
    return this;
}

@Override
protected void _setByte(int index, int value) {
    buffer.setByte(index + adjustment, value);
}

@Override
protected void _setShort(int index, int value) {
    buffer.setShort(index + adjustment, value);
}

@Override
protected void _setMedium(int index, int value) {
    buffer.setMedium(index + adjustment, value);
}

@Override
protected void _setInt(int index, int value) {
    buffer.setInt(index + adjustment, value);
}

@Override
protected void _setLong(int index, long value) {
    buffer.setLong(index + adjustment, value);
}

@Override
public ByteBuf setBytes(int index, byte[] src, int srcIndex, int length) {
    checkIndex(index, length);
    buffer.setBytes(index + adjustment, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
    checkIndex(index, length);
    buffer.setBytes(index + adjustment, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuffer src) {
    checkIndex(index, src.remaining());

```

```

    buffer.setBytes(index + adjustment, src);
    return this;
}

@Override
public ByteBuffer getBytes(int index, OutputStream out, int length) throws IOException {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, out, length);
    return this;
}

@Override
public int getBytes(int index, GatheringByteChannel out, int length) throws IOException {
    checkIndex(index, length);
    return buffer.getBytes(index + adjustment, out, length);
}

@Override
public int setBytes(int index, InputStream in, int length) throws IOException {
    checkIndex(index, length);
    return buffer.setBytes(index + adjustment, in, length);
}

@Override
public int setBytes(int index, ScatteringByteChannel in, int length) throws IOException {
    checkIndex(index, length);
    return buffer.setBytes(index + adjustment, in, length);
}

@Override
public int.nioBufferCount() {
    return buffer.nioBufferCount();
}

@Override
public ByteBuffer.nioBuffer(int index, int length) {
    checkIndex(index, length);
    return buffer.nioBuffer(index + adjustment, length);
}

@Override
public ByteBuffer[].nioBuffers(int index, int length) {
    checkIndex(index, length);
    return buffer.nioBuffers(index + adjustment, length);
}

@Override
public ByteBuffer.internalNioBuffer(int index, int length) {

```



```

        checkIndex(index, length);
        return nioBuffer(index, length);
    }

    @Override
    public int forEachByte(int index, int length, ByteBufProcessor processor) {
        int ret = buffer.forEachByte(index + adjustment, length, processor);
        if (ret >= adjustment) {
            return ret - adjustment;
        } else {
            return -1;
        }
    }

    @Override
    public int forEachByteDesc(int index, int length, ByteBufProcessor processor) {
        int ret = buffer.forEachByteDesc(index + adjustment, length, processor);
        if (ret >= adjustment) {
            return ret - adjustment;
        } else {
            return -1;
        }
    }
}

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 */
package io.netty.handler.codec.marshalling;

import org.jboss.marshalling.ByteInput;

import java.io.IOException;

/**
 * {@link ByteInput} implementation which wraps another {@link ByteInput} and throws a {@link
 * TooBigObjectException}

```

```

* if the read limit was reached.
*/
class LimitingByteInput implements ByteInput {

    // Use a static instance here to remove the overhead of fillStackTrace
    private static final TooBigObjectException EXCEPTION = new TooBigObjectException();

    private final ByteInput input;
    private final long limit;
    private long read;

    public LimitingByteInput(ByteInput input, long limit) {
        if (limit <= 0) {
            throw new IllegalArgumentException("The limit MUST be > 0");
        }
        this.input = input;
        this.limit = limit;
    }

    @Override
    public void close() throws IOException {
        // Nothing to do
    }

    @Override
    public int available() throws IOException {
        return readable(input.available());
    }

    @Override
    public int read() throws IOException {
        int readable = readable(1);
        if (readable > 0) {
            int b = input.read();
            read++;
            return b;
        } else {
            throw EXCEPTION;
        }
    }

    @Override
    public int read(byte[] array) throws IOException {
        return read(array, 0, array.length);
    }

    @Override
    public int read(byte[] array, int offset, int length) throws IOException {

```

```

int readable = readable(length);
if (readable > 0) {
    int i = input.read(array, offset, readable);
    read += i;
    return i;
} else {
    throw EXCEPTION;
}
}

@Override
public long skip(long bytes) throws IOException {
    int readable = readable((int) bytes);
    if (readable > 0) {
        long i = input.skip(readable);
        read += i;
        return i;
    } else {
        throw EXCEPTION;
    }
}

private int readable(int length) {
    return (int) Math.min(length, limit - read);
}

/**
 * Exception that will get thrown if the {@link Object} is too big to unmarshall
 *
 */
static final class TooBigObjectException extends IOException {
    private static final long serialVersionUID = 1L;
}

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```

```

*/

package io.netty.handler.codec.sctp;

import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;
import io.netty.channel.ChannelHandlerContext;
import io.netty.channel.ChannelInboundHandler;
import io.netty.channel.sctp.SctpMessage;
import io.netty.handler.codec.MessageToMessageDecoder;

import java.util.HashMap;
import java.util.List;
import java.util.Map;

/**
 * {@link MessageToMessageDecoder} which will take care of handle fragmented {@link SctpMessage}s, so
 * only <strong>complete</strong> {@link SctpMessage}s will be forwarded to the next
 * {@link ChannelInboundHandler}.
 */
public class SctpMessageCompletionHandler extends MessageToMessageDecoder<SctpMessage> {
    private final Map<Integer, ByteBuf> fragments = new HashMap<Integer, ByteBuf>();

    @Override
    protected void decode(ChannelHandlerContext ctx, SctpMessage msg, List<Object> out) throws Exception {
        final ByteBuf byteBuf = msg.content();
        final int protocolIdentifier = msg.protocolIdentifier();
        final int streamIdentifier = msg.streamIdentifier();
        final boolean isComplete = msg.isComplete();

        ByteBuf frag;
        if (fragments.containsKey(streamIdentifier)) {
            frag = fragments.remove(streamIdentifier);
        } else {
            frag = Unpooled.EMPTY_BUFFER;
        }

        if (isComplete && !frag.isReadable()) {
            //data chunk is not fragmented
            out.add(msg);
        } else if (!isComplete && frag.isReadable()) {
            //more message to complete
            fragments.put(streamIdentifier, Unpooled.wrappedBuffer(frag, byteBuf));
        } else if (isComplete && frag.isReadable()) {
            //last message to complete
            fragments.remove(streamIdentifier);
            SctpMessage assembledMsg = new SctpMessage(
                protocolIdentifier,

```

```

        streamIdentifier,
        Unpooled.wrappedBuffer(frag, byteBuf));
    out.add(assembledMsg);
} else {
    //first incomplete message
    fragments.put(streamIdentifier, byteBuf);
}
byteBuf.retain();
}
}
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 * under the License.
 */
package io.netty.handler.codec;

import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;

/**
 * A set of commonly used delimiters for {@link DelimiterBasedFrameDecoder}.
 */
public final class Delimiters {

    /**
     * Returns a {@code NUL (0x00)} delimiter, which could be used for
     * Flash XML socket or any similar protocols.
     */
    public static ByteBuf[] nulDelimiter() {
        return new ByteBuf[] {
            Unpooled.wrappedBuffer(new byte[] { 0 }) };
    }

    /**
     * Returns {@code CR ('\r')} and {@code LF ('\n')} delimiters, which could
     * be used for text-based line protocols.
     */

```

```

public static ByteBuf[] lineDelimiter() {
    return new ByteBuf[] {
        Unpooled.wrappedBuffer(new byte[] { '\r', '\n' }),
        Unpooled.wrappedBuffer(new byte[] { '\n' }),
    };
}

private Delimiters() {
    // Unused
}
}
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 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */
package io.netty.handler.codec;

import io.netty.buffer.ByteBuf;
import io.netty.channel.ChannelHandlerContext;

import java.util.List;

/**
 * A decoder that splits the received {@link ByteBuf}s by one or more
 * delimiters. It is particularly useful for decoding the frames which ends
 * with a delimiter such as {@link Delimiters#nulDelimiter() NUL} or
 * {@link Delimiters#lineDelimiter() newline characters}.
 *
 * 

### Predefined delimiters


 *
 * 

{@link Delimiters} defines frequently used delimiters for convenience' sake.


 *
 * 

### Specifying more than one delimiter


 *
 * 

{@link DelimiterBasedFrameDecoder} allows you to specify more than one
 * delimiter. If more than one delimiter is found in the buffer, it chooses
 * the delimiter which produces the shortest frame. For example, if you have


```

```

* the following data in the buffer:
* <pre>
* +-----+
* | ABC\nDEF\r\n |
* +-----+
* </pre>
* a { @link DelimiterBasedFrameDecoder}({ @link Delimiters#lineDelimiter() Delimiters.lineDelimiter()})
* will choose { @code '\n' } as the first delimiter and produce two frames:
* <pre>
* +-----+
* | ABC | DEF |
* +-----+
* </pre>
* rather than incorrectly choosing { @code '\r\n' } as the first delimiter:
* <pre>
* +-----+
* | ABC\nDEF |
* +-----+
* </pre>
*/

```

```

public class DelimiterBasedFrameDecoder extends ByteToMessageDecoder {

    private final ByteBuf[] delimiters;
    private final int maxFrameLength;
    private final boolean stripDelimiter;
    private final boolean failFast;
    private boolean discardingTooLongFrame;
    private int tooLongFrameLength;
    /** Set only when decoding with "\n" and "\r\n" as the delimiter. */
    private final LineBasedFrameDecoder lineBasedDecoder;

    /**
     * Creates a new instance.
     *
     * @param maxFrameLength the maximum length of the decoded frame.
     *                        A { @link TooLongFrameException } is thrown if
     *                        the length of the frame exceeds this value.
     * @param delimiter the delimiter
     */
    public DelimiterBasedFrameDecoder(int maxFrameLength, ByteBuf delimiter) {
        this(maxFrameLength, true, delimiter);
    }

    /**
     * Creates a new instance.
     *
     * @param maxFrameLength the maximum length of the decoded frame.
     *                        A { @link TooLongFrameException } is thrown if
     */

```

```

*         the length of the frame exceeds this value.
* @param stripDelimiter whether the decoded frame should strip out the
*         delimiter or not
* @param delimiter the delimiter
*/
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, ByteBuf delimiter) {
    this(maxFrameLength, stripDelimiter, true, delimiter);
}

/**
 * Creates a new instance.
 *
 * @param maxFrameLength the maximum length of the decoded frame.
 *         A { @link TooLongFrameException } is thrown if
 *         the length of the frame exceeds this value.
 * @param stripDelimiter whether the decoded frame should strip out the
 *         delimiter or not
 * @param failFast If <tt>true</tt>, a { @link TooLongFrameException } is
 *         thrown as soon as the decoder notices the length of the
 *         frame will exceed <tt>maxFrameLength</tt> regardless of
 *         whether the entire frame has been read.
 *         If <tt>false</tt>, a { @link TooLongFrameException } is
 *         thrown after the entire frame that exceeds
 *         <tt>maxFrameLength</tt> has been read.
 * @param delimiter the delimiter
 */
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, boolean failFast,
    ByteBuf delimiter) {
    this(maxFrameLength, stripDelimiter, failFast, new ByteBuf[] {
        delimiter.slice(delimiter.readerIndex(), delimiter.readableBytes())});
}

/**
 * Creates a new instance.
 *
 * @param maxFrameLength the maximum length of the decoded frame.
 *         A { @link TooLongFrameException } is thrown if
 *         the length of the frame exceeds this value.
 * @param delimiters the delimiters
 */
public DelimiterBasedFrameDecoder(int maxFrameLength, ByteBuf... delimiters) {
    this(maxFrameLength, true, delimiters);
}

/**
 * Creates a new instance.

```



```

*
* @param maxFrameLength the maximum length of the decoded frame.
*     A { @link TooLongFrameException } is thrown if
*     the length of the frame exceeds this value.
* @param stripDelimiter whether the decoded frame should strip out the
*     delimiter or not
* @param delimiters the delimiters
*/
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, ByteBuf... delimiters) {
    this(maxFrameLength, stripDelimiter, true, delimiters);
}

/**
* Creates a new instance.
*
* @param maxFrameLength the maximum length of the decoded frame.
*     A { @link TooLongFrameException } is thrown if
*     the length of the frame exceeds this value.
* @param stripDelimiter whether the decoded frame should strip out the
*     delimiter or not
* @param failFast If <tt>true</tt>, a { @link TooLongFrameException } is
*     thrown as soon as the decoder notices the length of the
*     frame will exceed <tt>maxFrameLength</tt> regardless of
*     whether the entire frame has been read.
*     If <tt>>false</tt>, a { @link TooLongFrameException } is
*     thrown after the entire frame that exceeds
*     <tt>maxFrameLength</tt> has been read.
* @param delimiters the delimiters
*/
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, boolean failFast, ByteBuf... delimiters) {
    validateMaxFrameLength(maxFrameLength);
    if (delimiters == null) {
        throw new NullPointerException("delimiters");
    }
    if (delimiters.length == 0) {
        throw new IllegalArgumentException("empty delimiters");
    }

    if (isLineBased(delimiters) && !isSubclass()) {
        lineBasedDecoder = new LineBasedFrameDecoder(maxFrameLength, stripDelimiter, failFast);
        this.delimiters = null;
    } else {
        this.delimiters = new ByteBuf[delimiters.length];
        for (int i = 0; i < delimiters.length; i++) {
            ByteBuf d = delimiters[i];
            validateDelimiter(d);
        }
    }
}

```

```

        this.delimiters[i] = d.slice(d.readerIndex(), d.readableBytes());
    }
    lineBasedDecoder = null;
}
this.maxFrameLength = maxFrameLength;
this.stripDelimiter = stripDelimiter;
this.failFast = failFast;
}

/** Returns true if the delimiters are "\n" and "\r\n". */
private static boolean isLineBased(final ByteBuf[] delimiters) {
    if (delimiters.length != 2) {
        return false;
    }
    ByteBuf a = delimiters[0];
    ByteBuf b = delimiters[1];
    if (a.capacity() < b.capacity()) {
        a = delimiters[1];
        b = delimiters[0];
    }
    return a.capacity() == 2 && b.capacity() == 1
        && a.getBytes(0) == '\r' && a.getBytes(1) == '\n'
        && b.getBytes(0) == '\n';
}

/**
 * Return { @code true } if the current instance is a subclass of DelimiterBasedFrameDecoder
 */
private boolean isSubclass() {
    return getClass() != DelimiterBasedFrameDecoder.class;
}

@Override
protected final void decode(ChannelHandlerContext ctx, ByteBuf in, List<Object> out) throws Exception {
    Object decoded = decode(ctx, in);
    if (decoded != null) {
        out.add(decoded);
    }
}

/**
 * Create a frame out of the { @link ByteBuf } and return it.
 *
 * @param ctx the { @link ChannelHandlerContext } which this { @link ByteToMessageDecoder }
belongs to
 * @param buffer the { @link ByteBuf } from which to read data
 * @return frame the { @link ByteBuf } which represent the frame or { @code null } if no frame could
 * be created.

```

```

*/
protected Object decode(ChannelHandlerContext ctx, ByteBuf buffer) throws Exception {
    if (lineBasedDecoder != null) {
        return lineBasedDecoder.decode(ctx, buffer);
    }
    // Try all delimiters and choose the delimiter which yields the shortest frame.
    int minFrameLength = Integer.MAX_VALUE;
    ByteBuf minDelim = null;
    for (ByteBuf delim: delimiters) {
        int frameLength = indexOf(buffer, delim);
        if (frameLength >= 0 && frameLength < minFrameLength) {
            minFrameLength = frameLength;
            minDelim = delim;
        }
    }

    if (minDelim != null) {
        int minDelimLength = minDelim.capacity();
        ByteBuf frame;

        if (discardingTooLongFrame) {
            // We've just finished discarding a very large frame.
            // Go back to the initial state.
            discardingTooLongFrame = false;
            buffer.skipBytes(minFrameLength + minDelimLength);

            int tooLongFrameLength = this.tooLongFrameLength;
            this.tooLongFrameLength = 0;
            if (!failFast) {
                fail(ctx, tooLongFrameLength);
            }
            return null;
        }

        if (minFrameLength > maxFrameLength) {
            // Discard read frame.
            buffer.skipBytes(minFrameLength + minDelimLength);
            fail(ctx, minFrameLength);
            return null;
        }

        if (stripDelimiter) {
            frame = buffer.readBytes(minFrameLength);
            buffer.skipBytes(minDelimLength);
        } else {
            frame = buffer.readBytes(minFrameLength + minDelimLength);
        }
    }
}

```

```

    return frame;
} else {
    if (!discardingTooLongFrame) {
        if (buffer.readableBytes() > maxFrameLength) {
            // Discard the content of the buffer until a delimiter is found.
            tooLongFrameLength = buffer.readableBytes();
            buffer.skipBytes(buffer.readableBytes());
            discardingTooLongFrame = true;
            if (failFast) {
                fail(ctx, tooLongFrameLength);
            }
        }
    } else {
        // Still discarding the buffer since a delimiter is not found.
        tooLongFrameLength += buffer.readableBytes();
        buffer.skipBytes(buffer.readableBytes());
    }
    return null;
}
}

private void fail(ChannelHandlerContext ctx, long frameLength) {
    if (frameLength > 0) {
        ctx.fireExceptionCaught(
            new TooLongFrameException(
                "frame length exceeds " + maxFrameLength +
                ": " + frameLength + " - discarded"));
    } else {
        ctx.fireExceptionCaught(
            new TooLongFrameException(
                "frame length exceeds " + maxFrameLength +
                " - discarding"));
    }
}

/**
 * Returns the number of bytes between the readerIndex of the haystack and
 * the first needle found in the haystack. -1 is returned if no needle is
 * found in the haystack.
 */
private static int indexOf(ByteBuf haystack, ByteBuf needle) {
    for (int i = haystack.readerIndex(); i < haystack.writerIndex(); i++) {
        int haystackIndex = i;
        int needleIndex;
        for (needleIndex = 0; needleIndex < needle.capacity(); needleIndex++) {
            if (haystack.getBytes(haystackIndex) != needle.getBytes(needleIndex)) {
                break;
            } else {

```

```

        haystackIndex++;
        if (haystackIndex == haystack.writerIndex() &&
            needleIndex != needle.capacity() - 1) {
            return -1;
        }
    }
}

if (needleIndex == needle.capacity()) {
    // Found the needle from the haystack!
    return i - haystack.readerIndex();
}
}
return -1;
}

private static void validateDelimiter(ByteBuf delimiter) {
    if (delimiter == null) {
        throw new NullPointerException("delimiter");
    }
    if (!delimiter.isReadable()) {
        throw new IllegalArgumentException("empty delimiter");
    }
}

private static void validateMaxFrameLength(int maxFrameLength) {
    if (maxFrameLength <= 0) {
        throw new IllegalArgumentException(
            "maxFrameLength must be a positive integer: " +
            maxFrameLength);
    }
}
}
}
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 */

```

```

package io.netty.handler.ssl;

/**
 * Event that is fired once the SSL handshake is complete, which may be because it was successful or there
 * was an error.
 */
public final class SslHandshakeCompletionEvent {

    public static final SslHandshakeCompletionEvent SUCCESS = new SslHandshakeCompletionEvent();

    private final Throwable cause;

    /**
     * Creates a new event that indicates a successful handshake.
     */
    private SslHandshakeCompletionEvent() {
        cause = null;
    }

    /**
     * Creates a new event that indicates an unsuccessful handshake.
     * Use { @link #SUCCESS } to indicate a successful handshake.
     */
    public SslHandshakeCompletionEvent(Throwable cause) {
        if (cause == null) {
            throw new NullPointerException("cause");
        }
        this.cause = cause;
    }

    /**
     * Return { @code true } if the handshake was successful
     */
    public boolean isSuccess() {
        return cause == null;
    }

    /**
     * Return the { @link Throwable } if { @link #isSuccess() } returns { @code false }
     * and so the handshake failed.
     */
    public Throwable cause() {
        return cause;
    }
}

```

1.209 nm-mercury-data-objects 4.2.0-1

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1.210 notification-feedback 4.65.0-0

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1.211 null 1.8

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1.212 null 1.2.4

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1.215 oasm-mercury-data-objects 1.9.0-2

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1.216 offercacher-application 3.58.0-2

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1.218 plexus-utils 3.0.9 :9.e17

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 */
```

```
package org.springframework.jdbc.core.simple;
```

```
import java.util.Arrays;
import java.util.HashSet;
import java.util.Map;
import javax.sql.DataSource;
```

```
import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.jdbc.core.RowMapper;
import org.springframework.jdbc.core.SqlParameter;
import org.springframework.jdbc.core.namedparam.SqlParameterSource;
```

```
/**
```

```
 * A SimpleJdbcCall is a multi-threaded, reusable object representing a call
```

- * to a stored procedure or a stored function. It provides meta data processing
- * to simplify the code needed to access basic stored procedures/functions.
- * All you need to provide is the name of the procedure/function and a Map
- * containing the parameters when you execute the call. The names of the
- * supplied parameters will be matched up with in and out parameters declared
- * when the stored procedure was created.

*

- * <p>The meta data processing is based on the DatabaseMetaData provided by
- * the JDBC driver. Since we rely on the JDBC driver, this "auto-detection"
- * can only be used for databases that are known to provide accurate meta data.
- * These currently include Derby, MySQL, Microsoft SQL Server, Oracle, DB2,
- * Sybase and PostgreSQL. For any other databases you are required to declare all
- * parameters explicitly. You can of course declare all parameters explicitly even
- * if the database provides the necessary meta data. In that case your declared
- * parameters will take precedence. You can also turn off any meta data processing
- * if you want to use parameter names that do not match what is declared during
- * the stored procedure compilation.

*

- * <p>The actual insert is being handled using Spring's
- * { @link org.springframework.jdbc.core.JdbcTemplate}.

*

- * <p>Many of the configuration methods return the current instance of the SimpleJdbcCall
- * to provide the ability to chain multiple ones together in a "fluent" interface style.

*

- * @author Thomas Risberg
- * @since 2.5
- * @see java.sql.DatabaseMetaData
- * @see org.springframework.jdbc.core.JdbcTemplate

*/

```
public class SimpleJdbcCall extends AbstractJdbcCall implements SimpleJdbcCallOperations {
```

```
/**
```

```
 * Constructor that takes one parameter with the JDBC DataSource to use when creating the
 * JdbcTemplate.
```

```
 * @param dataSource the { @code DataSource } to use
 * @see org.springframework.jdbc.core.JdbcTemplate#setDataSource
```

```
*/
```

```
public SimpleJdbcCall(DataSource dataSource) {
    super(dataSource);
}
```

```
/**
```

```
 * Alternative Constructor that takes one parameter with the JdbcTemplate to be used.
```

```
 * @param jdbcTemplate the { @code JdbcTemplate } to use
 * @see org.springframework.jdbc.core.JdbcTemplate#setDataSource
```

```
*/
```

```
public SimpleJdbcCall(JdbcTemplate jdbcTemplate) {
    super(jdbcTemplate);
```

```
}
```

```
@Override  
public SimpleJdbcCall withProcedureName(String procedureName) {  
    setProcedureName(procedureName);  
    setFunction(false);  
    return this;  
}
```

```
@Override  
public SimpleJdbcCall withFunctionName(String functionName) {  
    setProcedureName(functionName);  
    setFunction(true);  
    return this;  
}
```

```
@Override  
public SimpleJdbcCall withSchemaName(String schemaName) {  
    setSchemaName(schemaName);  
    return this;  
}
```

```
@Override  
public SimpleJdbcCall withCatalogName(String catalogName) {  
    setCatalogName(catalogName);  
    return this;  
}
```

```
@Override  
public SimpleJdbcCall withReturnValue() {  
    setReturnValueRequired(true);  
    return this;  
}
```

```
@Override  
public SimpleJdbcCall declareParameters(SqlParameter... sqlParameters) {  
    for (SqlParameter sqlParameter : sqlParameters) {  
        if (sqlParameter != null) {  
            addDeclaredParameter(sqlParameter);  
        }  
    }  
    return this;  
}
```

```
@Override  
public SimpleJdbcCall useInParameterNames(String... inParameterNames) {  
    setInParameterNames(new HashSet<String>(Arrays.asList(inParameterNames)));  
}
```

```

return this;
}

@Override
public SimpleJdbcCall returningResultSet(String parameterName, RowMapper<?> rowMapper) {
    addDeclaredRowMapper(parameterName, rowMapper);
    return this;
}

@Override
public SimpleJdbcCall withoutProcedureColumnMetaDataAccess() {
    setAccessCallParameterMetaData(false);
    return this;
}

@Override
@SuppressWarnings("unchecked")
public <T> T executeFunction(Class<T> returnType, Object... args) {
    return (T) doExecute(args).get(getScalarOutParameterName());
}

@Override
@SuppressWarnings("unchecked")
public <T> T executeFunction(Class<T> returnType, Map<String, ?> args) {
    return (T) doExecute(args).get(getScalarOutParameterName());
}

@Override
@SuppressWarnings("unchecked")
public <T> T executeFunction(Class<T> returnType, SqlParameterSource args) {
    return (T) doExecute(args).get(getScalarOutParameterName());
}

@Override
@SuppressWarnings("unchecked")
public <T> T executeObject(Class<T> returnType, Object... args) {
    return (T) doExecute(args).get(getScalarOutParameterName());
}

@Override
@SuppressWarnings("unchecked")
public <T> T executeObject(Class<T> returnType, Map<String, ?> args) {
    return (T) doExecute(args).get(getScalarOutParameterName());
}

@Override
@SuppressWarnings("unchecked")
public <T> T executeObject(Class<T> returnType, SqlParameterSource args) {

```

```

return (T) doExecute(args).get(getScalarOutParameterName());
}

@Override
public Map<String, Object> execute(Object... args) {
return doExecute(args);
}

@Override
public Map<String, Object> execute(Map<String, ?> args) {
return doExecute(args);
}

@Override
public Map<String, Object> execute(SqlParameterSource parameterSource) {
return doExecute(parameterSource);
}

}
/*
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* limitations under the License.
*/

package org.springframework.jdbc.core.simple;

import java.util.List;
import java.util.Map;

import org.springframework.dao.DataAccessException;
import org.springframework.jdbc.core.JdbcOperations;
import org.springframework.jdbc.core.RowMapper;
import org.springframework.jdbc.core.namedparam.NamedParameterJdbcOperations;
import org.springframework.jdbc.core.namedparam.SqlParameterSource;

/**
* JDBC operations interface usable on Java 5 and above, exposing a

```

```

* set of common JDBC operations, whose interface is simplified
* through the use of varargs and autoboxing.
*
* @author Rod Johnson
* @author Rob Harrop
* @author Thomas Risberg
* @since 2.0
* @see org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate
* @see SimpleJdbcTemplate
* @see org.springframework.jdbc.core.JdbcOperations
* @deprecated since Spring 3.1 in favor of { @link org.springframework.jdbc.core.JdbcOperations } and
* { @link org.springframework.jdbc.core.namedparam.NamedParameterJdbcOperations }. The JdbcTemplate and
* NamedParameterJdbcTemplate now provide all the functionality of the SimpleJdbcTemplate.
*/
@Deprecated
public interface SimpleJdbcOperations {

    /**
     * Expose the classic Spring JdbcTemplate to allow invocation of less
     * commonly used methods.
     */
    JdbcOperations getJdbcOperations();

    /**
     * Expose the Spring NamedParameterJdbcTemplate to allow invocation of less
     * commonly used methods.
     */
    NamedParameterJdbcOperations getNamedParameterJdbcOperations();

    /**
     * Query for an { @code int } passing in a SQL query
     * using the named parameter support provided by the
     * { @link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate }
     * and a map containing the arguments.
     * @param sql the SQL query to run.
     * @param args the map containing the arguments for the query
     */
    int queryForInt(String sql, Map<String, ?> args) throws DataAccessException;

    /**
     * Query for an { @code int } passing in a SQL query
     * using the named parameter support provided by the
     * { @link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate }
     * and a { @code SqlParameterSource } containing the arguments.
     * @param sql the SQL query to run.
     * @param args the { @code SqlParameterSource } containing the arguments for the query.
     */

```

```

int queryForInt(String sql, SqlParameterSource args) throws DataAccessException;

/**
 * Query for an {@code int} passing in a SQL query
 * using the standard '?' placeholders for parameters
 * and a variable number of arguments.
 * @param sql the SQL query to run.
 * @param args the variable number of arguments for the query
 */
int queryForInt(String sql, Object... args) throws DataAccessException;

/**
 * Query for an {@code long} passing in a SQL query
 * using the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * and a map containing the arguments.
 * @param sql the SQL query to run.
 * @param args the map containing the arguments for the query
 */
long queryForLong(String sql, Map<String, ?> args) throws DataAccessException;

/**
 * Query for an {@code long} passing in a SQL query
 * using the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * and a {@code SqlParameterSource} containing the arguments.
 * @param sql the SQL query to run.
 * @param args the {@code SqlParameterSource} containing the arguments for the query
 */
long queryForLong(String sql, SqlParameterSource args) throws DataAccessException;

/**
 * Query for an {@code long} passing in a SQL query
 * using the standard '?' placeholders for parameters
 * and a variable number of arguments.
 * @param sql the SQL query to run.
 * @param args the variable number of arguments for the query
 */
long queryForLong(String sql, Object... args) throws DataAccessException;

/**
 * Query for an object of type {@code T} identified by the supplied {@link Class}.
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param requiredType the required type of the return value
 * @param args the map containing the arguments for the query
 * @see JdbcOperations#queryForObject(String, Class)

```



```

* @see JdbcOperations#queryForObject(String, Object[], Class)
*/
<T> T queryForObject(String sql, Class<T> requiredType, Map<String, ?> args)
    throws DataAccessException;

/**
 * Query for an object of type {@code T} identified by the supplied {@code Class}.
 * Uses sql with the named parameter support provided by the
 * {@code org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param requiredType the required type of the return value
 * @param args the {@code SqlParameterSource} containing the arguments for the query
 * @see JdbcOperations#queryForObject(String, Class)
 * @see JdbcOperations#queryForObject(String, Object[], Class)
 */
<T> T queryForObject(String sql, Class<T> requiredType, SqlParameterSource args)
    throws DataAccessException;

/**
 * Query for an object of type {@code T} identified by the supplied {@code Class}.
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL query to run
 * @param requiredType the required type of the return value
 * @param args the variable number of arguments for the query
 * @see JdbcOperations#queryForObject(String, Class)
 * @see JdbcOperations#queryForObject(String, Object[], Class)
 */
<T> T queryForObject(String sql, Class<T> requiredType, Object... args)
    throws DataAccessException;

/**
 * Query for an object of type {@code T} using the supplied
 * {@code RowMapper} to the query results to the object.
 * Uses sql with the named parameter support provided by the
 * {@code org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param rm the {@code RowMapper} to use for result mapping
 * @param args the map containing the arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 */
<T> T queryForObject(String sql, RowMapper<T> rm, Map<String, ?> args)
    throws DataAccessException;

/**
 * Query for an object of type {@code T} using the supplied
 * {@code ParameterizedRowMapper} to the query results to the object.
 * Uses sql with the named parameter support provided by the

```

```

* { @link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate }
* @param sql the SQL query to run
* @param rm the @ { @link ParameterizedRowMapper } to use for result mapping
* @param args the map containing the arguments for the query
* @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
* @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
* @deprecated as of Spring 3.0: Use the method using the newly genericized RowMapper interface
* instead since the RowMapper and ParameterizedRowMapper interfaces are equivalent now.
*/
@Deprecated
<T> T queryForObject(String sql, ParameterizedRowMapper<T> rm, Map<String, ?> args)
    throws DataAccessException;

/**
* Query for an object of type { @code T } using the supplied
* { @link RowMapper } to the query results to the object.
* Uses sql with the named parameter support provided by the
* { @link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate }
* @param sql the SQL query to run
* @param rm the @ { @link RowMapper } to use for result mapping
* @param args the { @code SqlParameterSource } containing the arguments for the query
* @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
* @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
*/
<T> T queryForObject(String sql, RowMapper<T> rm, SqlParameterSource args)
    throws DataAccessException;

/**
* Query for an object of type { @code T } using the supplied
* { @link ParameterizedRowMapper } to the query results to the object.
* Uses sql with the named parameter support provided by the
* { @link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate }
* @param sql the SQL query to run
* @param rm the @ { @link ParameterizedRowMapper } to use for result mapping
* @param args the { @code SqlParameterSource } containing the arguments for the query
* @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
* @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
* @deprecated as of Spring 3.0: Use the method using the newly genericized RowMapper interface
* instead since the RowMapper and ParameterizedRowMapper interfaces are equivalent now.
*/
@Deprecated
<T> T queryForObject(String sql, ParameterizedRowMapper<T> rm, SqlParameterSource args)
    throws DataAccessException;

/**
* Query for an object of type { @code T } using the supplied
* { @link RowMapper } to the query results to the object.
* Uses sql with the standard '?' placeholders for parameters

```

```

* @param sql the SQL query to run
* @param rm the {@link RowMapper} to use for result mapping
* @param args the variable number of arguments for the query
* @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
* @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
*/
<T> T queryForObject(String sql, RowMapper<T> rm, Object... args)
    throws DataAccessException;

/**
 * Query for an object of type {@code T} using the supplied
 * {@link ParameterizedRowMapper} to the query results to the object.
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL query to run
 * @param rm the {@link ParameterizedRowMapper} to use for result mapping
 * @param args the variable number of arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 * @deprecated as of Spring 3.0: Use the method using the newly genericized RowMapper interface
 * instead since the RowMapper and ParameterizedRowMapper interfaces are equivalent now.
 */
@Deprecated
<T> T queryForObject(String sql, ParameterizedRowMapper<T> rm, Object... args)
    throws DataAccessException;

/**
 * Query for a {@link List} of {@code Objects} of type {@code T} using
 * the supplied {@link RowMapper} to the query results to the object.
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param rm the {@link RowMapper} to use for result mapping
 * @param args the map containing the arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 */
<T> List<T> query(String sql, RowMapper<T> rm, Map<String, ?> args)
    throws DataAccessException;

/**
 * Query for a {@link List} of {@code Objects} of type {@code T} using
 * the supplied {@link ParameterizedRowMapper} to the query results to the object.
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param rm the {@link ParameterizedRowMapper} to use for result mapping
 * @param args the map containing the arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)

```

```

* @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
* @deprecated as of Spring 3.0: Use the method using the newly genericized RowMapper interface
* instead since the RowMapper and ParameterizedRowMapper interfaces are equivalent now.
*/
@Deprecated
<T> List<T> query(String sql, ParameterizedRowMapper<T> rm, Map<String, ?> args)
    throws DataAccessException;

/**
 * Query for a {@link List} of {@code Objects} of type {@code T} using
 * the supplied {@link RowMapper} to the query results to the object.
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param rm the {@link RowMapper} to use for result mapping
 * @param args the {@code SqlParameterSource} containing the arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 */
<T> List<T> query(String sql, RowMapper<T> rm, SqlParameterSource args)
    throws DataAccessException;

/**
 * Query for a {@link List} of {@code Objects} of type {@code T} using
 * the supplied {@link ParameterizedRowMapper} to the query results to the object.
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param rm the {@link ParameterizedRowMapper} to use for result mapping
 * @param args the {@code SqlParameterSource} containing the arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 * @deprecated as of Spring 3.0: Use the method using the newly genericized RowMapper interface
 * instead since the RowMapper and ParameterizedRowMapper interfaces are equivalent now.
 */
@Deprecated
<T> List<T> query(String sql, ParameterizedRowMapper<T> rm, SqlParameterSource args)
    throws DataAccessException;

/**
 * Query for a {@link List} of {@code Objects} of type {@code T} using
 * the supplied {@link RowMapper} to the query results to the object.
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL query to run
 * @param rm the {@link RowMapper} to use for result mapping
 * @param args the variable number of arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)

```

```

*/
<T> List<T> query(String sql, RowMapper<T> rm, Object... args)
    throws DataAccessException;

/**
 * Query for a {@link List} of {@code Objects} of type {@code T} using
 * the supplied {@link ParameterizedRowMapper} to the query results to the object.
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL query to run
 * @param rm the {@link ParameterizedRowMapper} to use for result mapping
 * @param args the variable number of arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 * @deprecated as of Spring 3.0: Use the method using the newly genericized RowMapper interface
 * instead since the RowMapper and ParameterizedRowMapper interfaces are equivalent now.
 */
@Deprecated
<T> List<T> query(String sql, ParameterizedRowMapper<T> rm, Object... args)
    throws DataAccessException;

/**
 * Execute the supplied query with the supplied arguments.
 * <p>The query is expected to be a single row query; the result row will be
 * mapped to a Map<String, Object> (one entry for each column, using the column name as the key).
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param args the map containing the arguments for the query
 * @see JdbcOperations#queryForMap(String)
 * @see JdbcOperations#queryForMap(String, Object[])
 */
Map<String, Object> queryForMap(String sql, Map<String, ?> args)
    throws DataAccessException;

/**
 * Execute the supplied query with the supplied arguments.
 * <p>The query is expected to be a single row query; the result row will be
 * mapped to a Map<String, Object> (one entry for each column, using the column name as the key).
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param args the {@code SqlParameterSource} containing the arguments for the query
 * @see JdbcOperations#queryForMap(String)
 * @see JdbcOperations#queryForMap(String, Object[])
 */
Map<String, Object> queryForMap(String sql, SqlParameterSource args)
    throws DataAccessException;

```

```

/**
 * Execute the supplied query with the (optional) supplied arguments.
 * <p>The query is expected to be a single row query; the result row will be
 * mapped to a Map<String, Object> (one entry for each column, using the column name as the key).
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL query to run
 * @param args the variable number of arguments for the query
 * @see JdbcOperations#queryForMap(String)
 * @see JdbcOperations#queryForMap(String, Object[])
 */
Map<String, Object> queryForMap(String sql, Object... args)
    throws DataAccessException;

```

```

/**
 * Execute the supplied query with the supplied arguments.
 * <p>Each element in the returned {@link List} is constructed as a {@link Map}
 * as described in {@link #queryForMap}
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param args the map containing the arguments for the query
 * @see JdbcOperations#queryForList(String)
 * @see JdbcOperations#queryForList(String, Object[])
 */
List<Map<String, Object>> queryForList(String sql, Map<String, ?> args)
    throws DataAccessException;

```

```

/**
 * Execute the supplied query with the supplied arguments.
 * <p>Each element in the returned {@link List} is constructed as a {@link Map}
 * as described in {@link #queryForMap}
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param args the {@code SqlParameterSource} containing the arguments for the query
 * @see JdbcOperations#queryForList(String)
 * @see JdbcOperations#queryForList(String, Object[])
 */
List<Map<String, Object>> queryForList(String sql, SqlParameterSource args)
    throws DataAccessException;

```

```

/**
 * Execute the supplied query with the (optional) supplied arguments.
 * <p>Each element in the returned {@link List} is constructed as a {@link Map}
 * as described in {@link #queryForMap}
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL query to run
 * @param args the variable number of arguments for the query

```

```

* @see JdbcOperations#queryForList(String)
* @see JdbcOperations#queryForList(String, Object[])
*/
List<Map<String, Object>> queryForList(String sql, Object... args)
    throws DataAccessException;

/**
 * Execute the supplied SQL statement with (optional) supplied arguments.
 * Uses sql with the named parameter support provided by the
 * { @link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL statement to execute
 * @param args the map containing the arguments for the query
 * @return the numbers of rows affected by the update
 * @see NamedParameterJdbcOperations#update(String, Map)
 */
int update(String sql, Map<String, ?> args) throws DataAccessException;

/**
 * Execute the supplied SQL statement with supplied arguments.
 * Uses sql with the named parameter support provided by the
 * { @link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL statement to execute
 * @param args the { @code SqlParameterSource} containing the arguments for the statement
 * @return the numbers of rows affected by the update
 * @see NamedParameterJdbcOperations#update(String, SqlParameterSource)
 */
int update(String sql, SqlParameterSource args) throws DataAccessException;

/**
 * Execute the supplied SQL statement with supplied arguments.
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL statement to execute
 * @param args the variable number of arguments for the query
 * @return the numbers of rows affected by the update
 * @see JdbcOperations#update(String)
 * @see JdbcOperations#update(String, Object[])
 */
int update(String sql, Object... args) throws DataAccessException;

/**
 * Executes a batch using the supplied SQL statement with the batch of supplied arguments.
 * Uses sql with the named parameter support.
 * @param sql the SQL statement to execute
 * @param batchValues the array of Maps containing the batch of arguments for the query
 * @return an array containing the numbers of rows affected by each update in the batch
 */
public int[] batchUpdate(String sql, Map<String, ?>[] batchValues);

```

```

/**
 * Execute a batch using the supplied SQL statement with the batch of supplied arguments.
 * Uses sql with the named parameter support.
 * @param sql the SQL statement to execute
 * @param batchArgs the array of { @link SqlParameterSource } containing the batch of arguments for the query
 * @return an array containing the numbers of rows affected by each update in the batch
 */
public int[] batchUpdate(String sql, SqlParameterSource[] batchArgs);

/**
 * Execute a batch using the supplied SQL statement with the batch of supplied arguments.
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL statement to execute
 * @param batchArgs the List of Object arrays containing the batch of arguments for the query
 * @return an array containing the numbers of rows affected by each update in the batch
 */
public int[] batchUpdate(String sql, List<Object[]> batchArgs);

/**
 * Execute a batch using the supplied SQL statement with the batch of supplied arguments.
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL statement to execute.
 * @param batchArgs the List of Object arrays containing the batch of arguments for the query
 * @param argTypes SQL types of the arguments
 * (constants from { @code java.sql.Types })
 * @return an array containing the numbers of rows affected by each update in the batch
 */
public int[] batchUpdate(String sql, List<Object[]> batchArgs, int[] argTypes);

}
/*
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.springframework.jdbc.core.simple;

```



```

import java.util.List;
import java.util.Map;

import javax.sql.DataSource;

import org.springframework.dao.DataAccessException;
import org.springframework.jdbc.core.JdbcOperations;
import org.springframework.jdbc.core.RowMapper;
import org.springframework.jdbc.core.BatchUpdateUtils;
import org.springframework.jdbc.core.namedparam.NamedParameterJdbcOperations;
import org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate;
import org.springframework.jdbc.core.namedparam.SqlParameterSource;
import org.springframework.util.ObjectUtils;

/**
 * Java-5-based convenience wrapper for the classic Spring
 * { @link org.springframework.jdbc.core.JdbcTemplate },
 * taking advantage of varargs and autoboxing, and exposing only the most
 * commonly required operations in order to simplify JdbcTemplate usage.
 *
 * <p>Use the { @link #getJdbcOperations() } method (or a straight JdbcTemplate)
 * if you need to invoke less commonly used template methods. This includes
 * any methods specifying SQL types, methods using less commonly used callbacks
 * such as RowCallbackHandler, updates with PreparedStatementSetters rather than
 * argument arrays, and stored procedures as well as batch operations.
 *
 * @author Rod Johnson
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @author Thomas Risberg
 * @since 2.0
 * @see ParameterizedRowMapper
 * @see SimpleJdbcDaoSupport
 * @see org.springframework.jdbc.core.JdbcTemplate
 * @deprecated since Spring 3.1 in favor of { @link org.springframework.jdbc.core.JdbcTemplate } and
 * { @link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate }. The JdbcTemplate and
 * NamedParameterJdbcTemplate now provide all the functionality of the SimpleJdbcTemplate.
 */
@Deprecated
public class SimpleJdbcTemplate implements SimpleJdbcOperations {

    /** The NamedParameterJdbcTemplate that we are wrapping */
    private final NamedParameterJdbcOperations namedParameterJdbcOperations;

    /**
     * Create a new SimpleJdbcTemplate for the given DataSource.
     * <p>Creates a classic Spring JdbcTemplate and wraps it.

```

```

* @param dataSource the JDBC DataSource to access
*/
public SimpleJdbcTemplate(DataSource dataSource) {
    this.namedParameterJdbcOperations = new NamedParameterJdbcTemplate(dataSource);
}

/**
 * Create a new SimpleJdbcTemplate for the given classic Spring JdbcTemplate.
 * @param classicJdbcTemplate the classic Spring JdbcTemplate to wrap
 */
public SimpleJdbcTemplate(JdbcOperations classicJdbcTemplate) {
    this.namedParameterJdbcOperations = new NamedParameterJdbcTemplate(classicJdbcTemplate);
}

/**
 * Create a new SimpleJdbcTemplate for the given Spring NamedParameterJdbcTemplate.
 * @param namedParameterJdbcTemplate the Spring NamedParameterJdbcTemplate to wrap
 */
public SimpleJdbcTemplate(NamedParameterJdbcOperations namedParameterJdbcTemplate) {
    this.namedParameterJdbcOperations = namedParameterJdbcTemplate;
}

/**
 * Expose the classic Spring JdbcTemplate to allow invocation of
 * less commonly used methods.
 */
@Override
public JdbcOperations getJdbcOperations() {
    return this.namedParameterJdbcOperations.getJdbcOperations();
}

/**
 * Expose the Spring NamedParameterJdbcTemplate to allow invocation of
 * less commonly used methods.
 */
@Override
public NamedParameterJdbcOperations getNamedParameterJdbcOperations() {
    return this.namedParameterJdbcOperations;
}

@Override
public int queryForInt(String sql, Map<String, ?> args) throws DataAccessException {
    return getNamedParameterJdbcOperations().queryForInt(sql, args);
}

@Override

```

```
public int queryForInt(String sql, SqlParameterSource args) throws DataAccessException {
    return getNamedParameterJdbcOperations().queryForInt(sql, args);
}
```

@Override

```
public int queryForInt(String sql, Object... args) throws DataAccessException {
    return (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().queryForInt(sql) :
        getJdbcOperations().queryForInt(sql, getArguments(args)));
}
```

@Override

```
public long queryForLong(String sql, Map<String, ?> args) throws DataAccessException {
    return getNamedParameterJdbcOperations().queryForLong(sql, args);
}
```

@Override

```
public long queryForLong(String sql, SqlParameterSource args) throws DataAccessException {
    return getNamedParameterJdbcOperations().queryForLong(sql, args);
}
```

@Override

```
public long queryForLong(String sql, Object... args) throws DataAccessException {
    return (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().queryForLong(sql) :
        getJdbcOperations().queryForLong(sql, getArguments(args)));
}
```

@Override

```
public <T> T queryForObject(String sql, Class<T> requiredType, Map<String, ?> args) throws
DataAccessException {
    return getNamedParameterJdbcOperations().queryForObject(sql, args, requiredType);
}
```

@Override

```
public <T> T queryForObject(String sql, Class<T> requiredType, SqlParameterSource args)
throws DataAccessException {
    return getNamedParameterJdbcOperations().queryForObject(sql, args, requiredType);
}
```

@Override

```
public <T> T queryForObject(String sql, Class<T> requiredType, Object... args) throws DataAccessException {
    return (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().queryForObject(sql, requiredType) :
        getJdbcOperations().queryForObject(sql, getArguments(args), requiredType));
}
```

@Override

```
public <T> T queryForObject(String sql, RowMapper<T> rm, Map<String, ?> args) throws DataAccessException {
    return getNamedParameterJdbcOperations().queryForObject(sql, args, rm);
}
```

```
@Override
@Deprecated
public <T> T queryForObject(String sql, ParameterizedRowMapper<T> rm, Map<String, ?> args) throws
DataAccessException {
    return queryForObject(sql, (RowMapper<T>) rm, args);
}
```

```
@Override
public <T> T queryForObject(String sql, RowMapper<T> rm, SqlParameterSource args)
throws DataAccessException {
    return getNamedParameterJdbcOperations().queryForObject(sql, args, rm);
}
```

```
@Override
@Deprecated
public <T> T queryForObject(String sql, ParameterizedRowMapper<T> rm, SqlParameterSource args)
throws DataAccessException {
    return queryForObject(sql, (RowMapper<T>) rm, args);
}
```

```
@Override
public <T> T queryForObject(String sql, RowMapper<T> rm, Object... args) throws DataAccessException {
    return (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().queryForObject(sql, rm):
        getJdbcOperations().queryForObject(sql, getArguments(args), rm));
}
```

```
@Override
@Deprecated
public <T> T queryForObject(String sql, ParameterizedRowMapper<T> rm, Object... args) throws
DataAccessException {
    return queryForObject(sql, (RowMapper<T>) rm, args);
}
```

```
@Override
public <T> List<T> query(String sql, RowMapper<T> rm, Map<String, ?> args) throws DataAccessException {
    return getNamedParameterJdbcOperations().query(sql, args, rm);
}
```

```
@Override
@Deprecated
public <T> List<T> query(String sql, ParameterizedRowMapper<T> rm, Map<String, ?> args) throws
DataAccessException {
    return query(sql, (RowMapper<T>) rm, args);
}
```

```

}

@Override
public <T> List<T> query(String sql, RowMapper<T> rm, SqlParameterSource args)
    throws DataAccessException {
    return getNamedParameterJdbcOperations().query(sql, args, rm);
}

@Override
@Deprecated
public <T> List<T> query(String sql, ParameterizedRowMapper<T> rm, SqlParameterSource args)
    throws DataAccessException {
    return query(sql, (RowMapper<T>) rm, args);
}

@Override
public <T> List<T> query(String sql, RowMapper<T> rm, Object... args) throws DataAccessException {
    return (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().query(sql, rm) :
        getJdbcOperations().query(sql, getArguments(args), rm));
}

@Override
@Deprecated
public <T> List<T> query(String sql, ParameterizedRowMapper<T> rm, Object... args) throws
DataAccessException {
    return query(sql, (RowMapper<T>) rm, args);
}

@Override
public Map<String, Object> queryForMap(String sql, Map<String, ?> args) throws DataAccessException {
    return getNamedParameterJdbcOperations().queryForMap(sql, args);
}

@Override
public Map<String, Object> queryForMap(String sql, SqlParameterSource args)
    throws DataAccessException {
    return getNamedParameterJdbcOperations().queryForMap(sql, args);
}

@Override
public Map<String, Object> queryForMap(String sql, Object... args) throws DataAccessException {
    return (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().queryForMap(sql) :
        getJdbcOperations().queryForMap(sql, getArguments(args)));
}

@Override

```

```
public List<Map<String, Object>> queryForList(String sql, Map<String, ?> args) throws DataAccessException {
    return getNamedParameterJdbcOperations().queryForList(sql, args);
}
```

@Override

```
public List<Map<String, Object>> queryForList(String sql, SqlParameterSource args)
    throws DataAccessException {
    return getNamedParameterJdbcOperations().queryForList(sql, args);
}
```

@Override

```
public List<Map<String, Object>> queryForList(String sql, Object... args) throws DataAccessException {
    return (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().queryForList(sql) :
        getJdbcOperations().queryForList(sql, getArguments(args)));
}
```

@Override

```
public int update(String sql, Map<String, ?> args) throws DataAccessException {
    return getNamedParameterJdbcOperations().update(sql, args);
}
```

@Override

```
public int update(String sql, SqlParameterSource args) throws DataAccessException {
    return getNamedParameterJdbcOperations().update(sql, args);
}
```

@Override

```
public int update(String sql, Object ... args) throws DataAccessException {
    return (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().update(sql) :
        getJdbcOperations().update(sql, getArguments(args)));
}
```

@Override

```
public int[] batchUpdate(String sql, List<Object[]> batchArgs) {
    return batchUpdate(sql, batchArgs, new int[0]);
}
```

@Override

```
public int[] batchUpdate(String sql, List<Object[]> batchArgs, int[] argTypes) {
    return BatchUpdateUtils.executeBatchUpdate(sql, batchArgs, argTypes, getJdbcOperations());
}
```

@Override

```
public int[] batchUpdate(String sql, Map<String, ?>[] batchValues) {
    return getNamedParameterJdbcOperations().batchUpdate(sql, batchValues);
}
```

```

@Override
public int[] batchUpdate(String sql, SqlParameterSource[] batchArgs) {
    return getNamedParameterJdbcOperations().batchUpdate(sql, batchArgs);
}

/*
 * Considers an Object array passed into a varargs parameter as
 * collection of arguments rather than as single argument.
 */
private Object[] getArguments(Object[] varArgs) {
    if (varArgs.length == 1 && varArgs[0] instanceof Object[]) {
        return (Object[]) varArgs[0];
    }
    else {
        return varArgs;
    }
}

}

/*
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 * limitations under the License.
 */

package org.springframework.jdbc.core.simple;

import java.util.Arrays;
import java.util.Map;

import javax.sql.DataSource;

import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.jdbc.core.namedparam.SqlParameterSource;
import org.springframework.jdbc.support.KeyHolder;
import org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor;

```

```

/**
 * A SimpleJdbcInsert is a multi-threaded, reusable object providing easy insert
 * capabilities for a table. It provides meta data processing to simplify the code
 * needed to construct a basic insert statement. All you need to provide is the
 * name of the table and a Map containing the column names and the column values.
 *
 * <p>The meta data processing is based on the DatabaseMetaData provided by the
 * JDBC driver. As long as the JDBC driver can provide the names of the columns
 * for a specified table than we can rely on this auto-detection feature. If that
 * is not the case, then the column names must be specified explicitly.
 *
 * <p>The actual insert is being handled using Spring's
 * { @link org.springframework.jdbc.core.JdbcTemplate}.
 *
 * <p>Many of the configuration methods return the current instance of the SimpleJdbcInsert
 * to provide the ability to chain multiple ones together in a "fluent" interface style.
 *
 * @author Thomas Risberg
 * @since 2.5
 * @see java.sql.DatabaseMetaData
 * @see org.springframework.jdbc.core.JdbcTemplate
 */
public class SimpleJdbcInsert extends AbstractJdbcInsert implements SimpleJdbcInsertOperations {

    /**
     * Constructor that takes one parameter with the JDBC DataSource to use when creating the
     * JdbcTemplate.
     * @param dataSource the { @code DataSource } to use
     * @see org.springframework.jdbc.core.JdbcTemplate#setDataSource
     */
    public SimpleJdbcInsert(DataSource dataSource) {
        super(dataSource);
    }

    /**
     * Alternative Constructor that takes one parameter with the JdbcTemplate to be used.
     * @param jdbcTemplate the { @code JdbcTemplate } to use
     * @see org.springframework.jdbc.core.JdbcTemplate#setDataSource
     */
    public SimpleJdbcInsert(JdbcTemplate jdbcTemplate) {
        super(jdbcTemplate);
    }

    @Override
    public SimpleJdbcInsert withTableName(String tableName) {
        setTableName(tableName);
    }

```



```

return this;
}

@Override
public SimpleJdbcInsert withSchemaName(String schemaName) {
    setSchemaName(schemaName);
    return this;
}

@Override
public SimpleJdbcInsert withCatalogName(String catalogName) {
    setCatalogName(catalogName);
    return this;
}

@Override
public SimpleJdbcInsert usingColumns(String... columnNames) {
    setColumnNames(Arrays.asList(columnNames));
    return this;
}

@Override
public SimpleJdbcInsert usingGeneratedKeyColumns(String... columnNames) {
    setGeneratedKeyNames(columnNames);
    return this;
}

@Override
public SimpleJdbcInsertOperations withoutTableColumnMetaDataAccess() {
    setAccessTableColumnMetaData(false);
    return this;
}

@Override
public SimpleJdbcInsertOperations includeSynonymsForTableColumnMetaData() {
    setOverrideIncludeSynonymsDefault(true);
    return this;
}

@Override
public SimpleJdbcInsertOperations useNativeJdbcExtractorForMetaData(NativeJdbcExtractor nativeJdbcExtractor)
{
    setNativeJdbcExtractor(nativeJdbcExtractor);
    return this;
}

@Override
public int execute(Map<String, Object> args) {

```

```

return doExecute(args);
}

@Override
public int execute(SqlParameterSource parameterSource) {
return doExecute(parameterSource);
}

@Override
public Number executeAndReturnKey(Map<String, Object> args) {
return doExecuteAndReturnKey(args);
}

@Override
public Number executeAndReturnKey(SqlParameterSource parameterSource) {
return doExecuteAndReturnKey(parameterSource);
}

@Override
public KeyHolder executeAndReturnKeyHolder(Map<String, Object> args) {
return doExecuteAndReturnKeyHolder(args);
}

@Override
public KeyHolder executeAndReturnKeyHolder(SqlParameterSource parameterSource) {
return doExecuteAndReturnKeyHolder(parameterSource);
}

@Override
public int[] executeBatch(Map<String, Object>[] batch) {
return doExecuteBatch(batch);
}

@Override
public int[] executeBatch(SqlParameterSource[] batch) {
return doExecuteBatch(batch);
}
}
/*
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*
*/

```

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* limitations under the License.
*/

```
package org.springframework.jdbc.core.simple;
```

```
import java.util.Map;
```

```
import org.springframework.jdbc.core.RowMapper;  
import org.springframework.jdbc.core.SqlParameter;  
import org.springframework.jdbc.core.namedparam.SqlParameterSource;
```

```
/**
```

```
* Interface specifying the API for a Simple JDBC Call implemented by {@link SimpleJdbcCall}.  
* This interface is not often used directly, but provides the  
* option to enhance testability, as it can easily be mocked or stubbed.
```

```
*
```

```
* @author Thomas Risberg
```

```
* @since 2.5
```

```
*/
```

```
public interface SimpleJdbcCallOperations {
```

```
/**
```

```
* Specify the procedure name to be used - this implies that we will be calling a stored procedure.  
* @param procedureName the name of the stored procedure  
* @return the instance of this SimpleJdbcCall
```

```
*/
```

```
SimpleJdbcCallOperations withProcedureName(String procedureName);
```

```
/**
```

```
* Specify the procedure name to be used - this implies that we will be calling a stored function.  
* @param functionName the name of the stored function  
* @return the instance of this SimpleJdbcCall
```

```
*/
```

```
SimpleJdbcCallOperations withFunctionName(String functionName);
```

```
/**
```

```
* Optionally, specify the name of the schema that contains the stored procedure.  
* @param schemaName the name of the schema  
* @return the instance of this SimpleJdbcCall
```

```
*/
```

```
SimpleJdbcCallOperations withSchemaName(String schemaName);
```

```
/**
```

```
* Optionally, specify the name of the catalog that contains the stored procedure.
```

```

* To provide consistency with the Oracle DatabaseMetaData, this is used to specify the package name if
* the procedure is declared as part of a package.
* @param catalogName the catalog or package name
* @return the instance of this SimpleJdbcCall
*/
SimpleJdbcCallOperations withCatalogName(String catalogName);

/**
* Indicates the procedure's return value should be included in the results returned.
* @return the instance of this SimpleJdbcCall
*/
SimpleJdbcCallOperations withReturnValue();

/**
* Specify one or more parameters if desired. These parameters will be supplemented with any
* parameter information retrieved from the database meta data.
* Note that only parameters declared as { @code SqlParameter } and { @code SqlInOutParameter }
* will be used to provide input values. This is different from the { @code StoredProcedure } class
* which for backwards compatibility reasons allows input values to be provided for parameters declared
* as { @code SqlOutParameter }.
* @param sqlParameters the parameters to use
* @return the instance of this SimpleJdbcCall
*/
SimpleJdbcCallOperations declareParameters(SqlParameter... sqlParameters);

/** Not used yet */
SimpleJdbcCallOperations useInParameterNames(String... inParameterNames);

/**
* Used to specify when a ResultSet is returned by the stored procedure and you want it mapped
* by a RowMapper. The results will be returned using the parameter name specified. Multiple
* ResultSets must be declared in the correct order. If the database you are using uses ref cursors
* then the name specified must match the name of the parameter declared for the procedure in the
* database.
* @param parameterName the name of the returned results and/or the name of the ref cursor parameter
* @param rowMapper the RowMapper implementation that will map the data returned for each row
* */
SimpleJdbcCallOperations returningResultSet(String parameterName, RowMapper<?> rowMapper);

/**
* Turn off any processing of parameter meta data information obtained via JDBC.
* @return the instance of this SimpleJdbcCall
*/
SimpleJdbcCallOperations withoutProcedureColumnMetaDataAccess();

/**
* Execute the stored function and return the results obtained as an Object of the specified return type.

```

```

* @param returnType the type of the value to return
* @param args optional array containing the in parameter values to be used in the call.
* Parameter values must be provided in the same order as the parameters are defined
* for the stored procedure.
*/
<T> T executeFunction(Class<T> returnType, Object... args);

/**
* Execute the stored function and return the results obtained as an Object of the specified return type.
* @param returnType the type of the value to return
* @param args Map containing the parameter values to be used in the call.
*/
<T> T executeFunction(Class<T> returnType, Map<String, ?> args);

/**
* Execute the stored function and return the results obtained as an Object of the specified return type.
* @param returnType the type of the value to return
* @param args MapSqlParameterSource containing the parameter values to be used in the call.
*/
<T> T executeFunction(Class<T> returnType, SqlParameterSource args);

/**
* Execute the stored procedure and return the single out parameter as an Object of the specified return type.
* In the case where there are multiple out parameters, the first one is returned and additional out parameters
* are ignored.
* @param returnType the type of the value to return
* @param args optional array containing the in parameter values to be used in the call. Parameter values must
* be provided in the same order as the parameters are defined for the stored procedure.
*/
<T> T executeObject(Class<T> returnType, Object... args);

/**
* Execute the stored procedure and return the single out parameter as an Object of the specified return type.
* In the case where there are multiple out parameters, the first one is returned and additional out parameters
* are ignored.
* @param returnType the type of the value to return
* @param args Map containing the parameter values to be used in the call.
*/
<T> T executeObject(Class<T> returnType, Map<String, ?> args);

/**
* Execute the stored procedure and return the single out parameter as an Object of the specified return type.
* In the case where there are multiple out parameters, the first one is returned and additional out parameters
* are ignored.
* @param returnType the type of the value to return
* @param args MapSqlParameterSource containing the parameter values to be used in the call.
*/
<T> T executeObject(Class<T> returnType, SqlParameterSource args);

```

```

/**
 * Execute the stored procedure and return a map of output params, keyed by name as in parameter declarations.
 * @param args optional array containing the in parameter values to be used in the call. Parameter values must
 * be provided in the same order as the parameters are defined for the stored procedure.
 * @return map of output params.
 */
Map<String, Object> execute(Object... args);

/**
 * Execute the stored procedure and return a map of output params, keyed by name as in parameter declarations..
 * @param args Map containing the parameter values to be used in the call.
 * @return map of output params.
 */
Map<String, Object> execute(Map<String, ?> args);

/**
 * Execute the stored procedure and return a map of output params, keyed by name as in parameter declarations..
 * @param args SqlParameterSource containing the parameter values to be used in the call.
 * @return map of output params.
 */
Map<String, Object> execute(SqlParameterSource args);
}
/*
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 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.springframework.jdbc.core.simple;

import java.util.Map;

import org.springframework.jdbc.core.namedparam.SqlParameterSource;
import org.springframework.jdbc.support.KeyHolder;
import org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor;

```

```

/**
 * Interface specifying the API for a Simple JDBC Insert implemented by { @link SimpleJdbcInsert }.
 * This interface is not often used directly, but provides the
 * option to enhance testability, as it can easily be mocked or stubbed.
 *
 * @author Thomas Risberg
 * @since 2.5
 */
public interface SimpleJdbcInsertOperations {

    /**
     * Specify the table name to be used for the insert.
     * @param tableName the name of the stored table
     * @return the instance of this SimpleJdbcInsert
     */
    SimpleJdbcInsertOperations withTableName(String tableName);

    /**
     * Specify the schema name, if any, to be used for the insert.
     * @param schemaName the name of the schema
     * @return the instance of this SimpleJdbcInsert
     */
    SimpleJdbcInsertOperations withSchemaName(String schemaName);

    /**
     * Specify the catalog name, if any, to be used for the insert.
     * @param catalogName the name of the catalog
     * @return the instance of this SimpleJdbcInsert
     */
    SimpleJdbcInsertOperations withCatalogName(String catalogName);

    /**
     * Specify the column names that the insert statement should be limited to use.
     * @param columnNames one or more column names
     * @return the instance of this SimpleJdbcInsert
     */
    SimpleJdbcInsertOperations usingColumns(String... columnNames);

    /**
     * Specify the name of any columns that have auto generated keys.
     * @param columnNames one or more column names
     * @return the instance of this SimpleJdbcInsert
     */
    SimpleJdbcInsertOperations usingGeneratedKeyColumns(String... columnNames);

    /**
     * Turn off any processing of column meta data information obtained via JDBC.
     * @return the instance of this SimpleJdbcInsert

```

```

*/
SimpleJdbcInsertOperations withoutTableColumnMetaDataAccess();

/**
 * Include synonyms for the column meta data lookups via JDBC.
 * Note: this is only necessary to include for Oracle since other
 * databases supporting synonyms seems to include the synonyms
 * automatically.
 * @return the instance of this SimpleJdbcInsert
 */
SimpleJdbcInsertOperations includeSynonymsForTableColumnMetaData();

/**
 * Use a the provided NativeJdbcExtractor during the column meta data
 * lookups via JDBC.
 * Note: this is only necessary to include when running with a connection pool
 * that wraps the meta data connection and when using a database like Oracle
 * where it is necessary to access the native connection to include synonyms.
 * @return the instance of this SimpleJdbcInsert
 */
SimpleJdbcInsertOperations useNativeJdbcExtractorForMetaData(NativeJdbcExtractor nativeJdbcExtractor);

/**
 * Execute the insert using the values passed in.
 * @param args Map containing column names and corresponding value
 * @return the number of rows affected as returned by the JDBC driver
 */
int execute(Map<String, Object> args);

/**
 * Execute the insert using the values passed in.
 * @param parameterSource SqlParameterSource containing values to use for insert
 * @return the number of rows affected as returned by the JDBC driver
 */
int execute(SqlParameterSource parameterSource);

/**
 * Execute the insert using the values passed in and return the generated key. This requires that
 * the name of the columns with auto generated keys have been specified. This method will always
 * return a key or throw an exception if a key was not returned.
 * @param args Map containing column names and corresponding value
 * @return the generated key value
 */
Number executeAndReturnKey(Map<String, Object> args);

/**
 * Execute the insert using the values passed in and return the generated key. This requires that

```



```

* the name of the columns with auto generated keys have been specified. This method will always
* return a key or throw an exception if a key was not returned.
* @param parameterSource SqlParameterSource containing values to use for insert
* @return the generated key value.
*/
Number executeAndReturnKey(SqlParameterSource parameterSource);

/**
* Execute the insert using the values passed in and return the generated keys. This requires that
* the name of the columns with auto generated keys have been specified. This method will always return
* a KeyHolder but the caller must verify that it actually contains the generated keys.
* @param args Map containing column names and corresponding value
* @return the KeyHolder containing all generated keys
*/
KeyHolder executeAndReturnKeyHolder(Map<String, Object> args);

/**
* Execute the insert using the values passed in and return the generated keys. This requires that
* the name of the columns with auto generated keys have been specified. This method will always return
* a KeyHolder but the caller must verify that it actually contains the generated keys.
* @param parameterSource SqlParameterSource containing values to use for insert
* @return the KeyHolder containing all generated keys
*/
KeyHolder executeAndReturnKeyHolder(SqlParameterSource parameterSource);

/**
* Execute a batch insert using the batch of values passed in.
* @param batch an array of Maps containing a batch of column names and corresponding value
* @return the array of number of rows affected as returned by the JDBC driver
*/
int[] executeBatch(Map<String, Object>[] batch);

/**
* Execute a batch insert using the batch of values passed in.
* @param batch an array of SqlParameterSource containing values for the batch
* @return the array of number of rows affected as returned by the JDBC driver
*/
int[] executeBatch(SqlParameterSource[] batch);

}
/*
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```

```

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*/

package org.springframework.jdbc.core.simple;

import org.springframework.jdbc.core.support.JdbcDaoSupport;

/**
 * Extension of { @link org.springframework.jdbc.core.support.JdbcDaoSupport }
 * that exposes a { @link #getSimpleJdbcTemplate() SimpleJdbcTemplate } as well.
 * Only usable on Java 5 and above.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @since 2.0
 * @see SimpleJdbcTemplate
 * @deprecated since Spring 3.1 in favor of { @link org.springframework.jdbc.core.support.JdbcDaoSupport } and
 * { @link org.springframework.jdbc.core.namedparam.NamedParameterJdbcDaoSupport }. The JdbcTemplate and
 * NamedParameterJdbcTemplate now provide all the functionality of the SimpleJdbcTemplate.
 */
@Deprecated
public class SimpleJdbcDaoSupport extends JdbcDaoSupport {

    private SimpleJdbcTemplate simpleJdbcTemplate;

    /**
     * Create a SimpleJdbcTemplate based on the configured JdbcTemplate.
     */
    @Override
    protected void initTemplateConfig() {
        this.simpleJdbcTemplate = new SimpleJdbcTemplate(getJdbcTemplate());
    }

    /**
     * Return a SimpleJdbcTemplate wrapping the configured JdbcTemplate.
     */
    public SimpleJdbcTemplate getSimpleJdbcTemplate() {
        return this.simpleJdbcTemplate;
    }

}

```

```
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 */
```

```
package org.springframework.jdbc.core;

import java.lang.reflect.InvocationHandler;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.lang.reflect.Proxy;
import java.sql.BatchUpdateException;
import java.sql.CallableStatement;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.SQLWarning;
import java.sql.Statement;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.HashMap;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import javax.sql.DataSource;

import org.springframework.dao.DataAccessException;
import org.springframework.dao.InvalidDataAccessApiUsageException;
import org.springframework.dao.support.DataAccessUtils;
import org.springframework.jdbc.SQLWarningException;
import org.springframework.jdbc.datasource.ConnectionProxy;
import org.springframework.jdbc.datasource.DataSourceUtils;
import org.springframework.jdbc.support.JdbcAccessor;
import org.springframework.jdbc.support.JdbcUtils;
import org.springframework.jdbc.support.KeyHolder;
```

```

import org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor;
import org.springframework.jdbc.support.rowset.SqlRowSet;
import org.springframework.util.Assert;
import org.springframework.util.LinkedCaseInsensitiveMap;
import org.springframework.util.StringUtils;

/**
 * <b>This is the central class in the JDBC core package.</b>
 * It simplifies the use of JDBC and helps to avoid common errors.
 * It executes core JDBC workflow, leaving application code to provide SQL
 * and extract results. This class executes SQL queries or updates, initiating
 * iteration over ResultSets and catching JDBC exceptions and translating
 * them to the generic, more informative exception hierarchy defined in the
 * { @code org.springframework.dao } package.
 *
 * <p>Code using this class need only implement callback interfaces, giving
 * them a clearly defined contract. The { @link PreparedStatementCreator } callback
 * interface creates a prepared statement given a Connection, providing SQL and
 * any necessary parameters. The { @link ResultSetExtractor } interface extracts
 * values from a ResultSet. See also { @link PreparedStatementSetter } and
 * { @link RowMapper } for two popular alternative callback interfaces.
 *
 * <p>Can be used within a service implementation via direct instantiation
 * with a DataSource reference, or get prepared in an application context
 * and given to services as bean reference. Note: The DataSource should
 * always be configured as a bean in the application context, in the first case
 * given to the service directly, in the second case to the prepared template.
 *
 * <p>Because this class is parameterizable by the callback interfaces and
 * the { @link org.springframework.jdbc.support.SQLErrorTranslator }
 * interface, there should be no need to subclass it.
 *
 * <p>All SQL operations performed by this class are logged at debug level,
 * using "org.springframework.jdbc.core.JdbcTemplate" as log category.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @author Thomas Risberg
 * @since May 3, 2001
 * @see PreparedStatementCreator
 * @see PreparedStatementSetter
 * @see CallableStatementCreator
 * @see PreparedStatementCallback
 * @see CallableStatementCallback
 * @see ResultSetExtractor
 * @see RowCallbackHandler
 * @see RowMapper
 * @see org.springframework.jdbc.support.SQLErrorTranslator

```

```

*/
public class JdbcTemplate extends JdbcAccessor implements JdbcOperations {

private static final String RETURN_RESULT_SET_PREFIX = "#result-set-";

private static final String RETURN_UPDATE_COUNT_PREFIX = "#update-count-";

/** Custom NativeJdbcExtractor */
private NativeJdbcExtractor nativeJdbcExtractor;

/** If this variable is false, we will throw exceptions on SQL warnings */
private boolean ignoreWarnings = true;

/**
 * If this variable is set to a non-zero value, it will be used for setting the
 * fetchSize property on statements used for query processing.
 */
private int fetchSize = 0;

/**
 * If this variable is set to a non-zero value, it will be used for setting the
 * maxRows property on statements used for query processing.
 */
private int maxRows = 0;

/**
 * If this variable is set to a non-zero value, it will be used for setting the
 * queryTimeout property on statements used for query processing.
 */
private int queryTimeout = 0;

/**
 * If this variable is set to true then all results checking will be bypassed for any
 * callable statement processing. This can be used to avoid a bug in some older Oracle
 * JDBC drivers like 10.1.0.2.
 */
private boolean skipResultsProcessing = false;

/**
 * If this variable is set to true then all results from a stored procedure call
 * that don't have a corresponding SqlOutParameter declaration will be bypassed.
 * All other results processing will be take place unless the variable
 * { @code skipResultsProcessing } is set to { @code true }.
 */
private boolean skipUndeclaredResults = false;

/**

```

```

* If this variable is set to true then execution of a CallableStatement will return
* the results in a Map that uses case insensitive names for the parameters if
* Commons Collections is available on the classpath.
*/
private boolean resultsMapCaseInsensitive = false;

/**
* Construct a new JdbcTemplate for bean usage.
* <p>Note: The DataSource has to be set before using the instance.
* @see #setDataSource
*/
public JdbcTemplate() {
}

/**
* Construct a new JdbcTemplate, given a DataSource to obtain connections from.
* <p>Note: This will not trigger initialization of the exception translator.
* @param dataSource the JDBC DataSource to obtain connections from
*/
public JdbcTemplate(DataSource dataSource) {
    setDataSource(dataSource);
    afterPropertiesSet();
}

/**
* Construct a new JdbcTemplate, given a DataSource to obtain connections from.
* <p>Note: Depending on the "lazyInit" flag, initialization of the exception translator
* will be triggered.
* @param dataSource the JDBC DataSource to obtain connections from
* @param lazyInit whether to lazily initialize the SQLExceptionTranslator
*/
public JdbcTemplate(DataSource dataSource, boolean lazyInit) {
    setDataSource(dataSource);
    setLazyInit(lazyInit);
    afterPropertiesSet();
}

/**
* Set a NativeJdbcExtractor to extract native JDBC objects from wrapped handles.
* Useful if native Statement and/or ResultSet handles are expected for casting
* to database-specific implementation classes, but a connection pool that wraps
* JDBC objects is used (note: <i>any</i> pool will return wrapped Connections).
*/
public void setNativeJdbcExtractor(NativeJdbcExtractor extractor) {
    this.nativeJdbcExtractor = extractor;
}

```

```

/**
 * Return the current NativeJdbcExtractor implementation.
 */
public NativeJdbcExtractor getNativeJdbcExtractor() {
    return this.nativeJdbcExtractor;
}

/**
 * Set whether or not we want to ignore SQLWarnings.
 * <p>Default is "true", swallowing and logging all warnings. Switch this flag
 * to "false" to make the JdbcTemplate throw a SQLWarningException instead.
 * @see java.sql.SQLWarning
 * @see org.springframework.jdbc.SQLWarningException
 * @see #handleWarnings
 */
public void setIgnoreWarnings(boolean ignoreWarnings) {
    this.ignoreWarnings = ignoreWarnings;
}

/**
 * Return whether or not we ignore SQLWarnings.
 */
public boolean isIgnoreWarnings() {
    return this.ignoreWarnings;
}

/**
 * Set the fetch size for this JdbcTemplate. This is important for processing
 * large result sets: Setting this higher than the default value will increase
 * processing speed at the cost of memory consumption; setting this lower can
 * avoid transferring row data that will never be read by the application.
 * <p>Default is 0, indicating to use the JDBC driver's default.
 * @see java.sql.Statement#setFetchSize
 */
public void setFetchSize(int fetchSize) {
    this.fetchSize = fetchSize;
}

/**
 * Return the fetch size specified for this JdbcTemplate.
 */
public int getFetchSize() {
    return this.fetchSize;
}

/**
 * Set the maximum number of rows for this JdbcTemplate. This is important

```

```

* for processing subsets of large result sets, avoiding to read and hold
* the entire result set in the database or in the JDBC driver if we're
* never interested in the entire result in the first place (for example,
* when performing searches that might return a large number of matches).
* <p>Default is 0, indicating to use the JDBC driver's default.
* @see java.sql.Statement#setMaxRows
*/
public void setMaxRows(int maxRows) {
    this.maxRows = maxRows;
}

/**
 * Return the maximum number of rows specified for this JdbcTemplate.
 */
public int getMaxRows() {
    return this.maxRows;
}

/**
 * Set the query timeout for statements that this JdbcTemplate executes.
 * <p>Default is 0, indicating to use the JDBC driver's default.
 * <p>Note: Any timeout specified here will be overridden by the remaining
 * transaction timeout when executing within a transaction that has a
 * timeout specified at the transaction level.
 * @see java.sql.Statement#setQueryTimeout
 */
public void setQueryTimeout(int queryTimeout) {
    this.queryTimeout = queryTimeout;
}

/**
 * Return the query timeout for statements that this JdbcTemplate executes.
 */
public int getQueryTimeout() {
    return this.queryTimeout;
}

/**
 * Set whether results processing should be skipped. Can be used to optimize callable
 * statement processing when we know that no results are being passed back - the processing
 * of out parameter will still take place. This can be used to avoid a bug in some older
 * Oracle JDBC drivers like 10.1.0.2.
 */
public void setSkipResultsProcessing(boolean skipResultsProcessing) {
    this.skipResultsProcessing = skipResultsProcessing;
}

/**

```



```

* Return whether results processing should be skipped.
*/
public boolean isSkipResultsProcessing() {
    return this.skipResultsProcessing;
}

/**
* Set whether undeclared results should be skipped.
*/
public void setSkipUndeclaredResults(boolean skipUndeclaredResults) {
    this.skipUndeclaredResults = skipUndeclaredResults;
}

/**
* Return whether undeclared results should be skipped.
*/
public boolean isSkipUndeclaredResults() {
    return this.skipUndeclaredResults;
}

/**
* Set whether execution of a CallableStatement will return the results in a Map
* that uses case insensitive names for the parameters.
*/
public void setResultsMapCaseInsensitive(boolean resultsMapCaseInsensitive) {
    this.resultsMapCaseInsensitive = resultsMapCaseInsensitive;
}

/**
* Return whether execution of a CallableStatement will return the results in a Map
* that uses case insensitive names for the parameters.
*/
public boolean isResultsMapCaseInsensitive() {
    return this.resultsMapCaseInsensitive;
}

//-----
// Methods dealing with a plain java.sql.Connection
//-----

@Override
public <T> T execute(ConnectionCallback<T> action) throws DataAccessException {
    Assert.notNull(action, "Callback object must not be null");

    Connection con = DataSourceUtils.getConnection(getDataSource());
    try {
        Connection conToUse = con;

```

```

if (this.nativeJdbcExtractor != null) {
    // Extract native JDBC Connection, castable to OracleConnection or the like.
    conToUse = this.nativeJdbcExtractor.getNativeConnection(con);
}
else {
    // Create close-suppressing Connection proxy, also preparing returned Statements.
    conToUse = createConnectionProxy(con);
}
return action.doInConnection(conToUse);
}
catch (SQLException ex) {
    // Release Connection early, to avoid potential connection pool deadlock
    // in the case when the exception translator hasn't been initialized yet.
    DataSourceUtils.releaseConnection(con, getDataSource());
    con = null;
    throw getExceptionTranslator().translate("ConnectionCallback", getSql(action), ex);
}
finally {
    DataSourceUtils.releaseConnection(con, getDataSource());
}
}

/**
 * Create a close-suppressing proxy for the given JDBC Connection.
 * Called by the { @code execute } method.
 * <p>The proxy also prepares returned JDBC Statements, applying
 * statement settings such as fetch size, max rows, and query timeout.
 * @param con the JDBC Connection to create a proxy for
 * @return the Connection proxy
 * @see java.sql.Connection#close()
 * @see #execute(ConnectionCallback)
 * @see #applyStatementSettings
 */
protected Connection createConnectionProxy(Connection con) {
    return (Connection) Proxy.newProxyInstance(
        ConnectionProxy.class.getClassLoader(),
        new Class<?>[] { ConnectionProxy.class },
        new CloseSuppressingInvocationHandler(con));
}

//-----
// Methods dealing with static SQL (java.sql.Statement)
//-----

@Override
public <T> T execute(StatementCallback<T> action) throws DataAccessException {
    Assert.notNull(action, "Callback object must not be null");
}

```

```

Connection con = DataSourceUtils.getConnection(getDataSource());
Statement stmt = null;
try {
    Connection conToUse = con;
    if (this.nativeJdbcExtractor != null &&
        this.nativeJdbcExtractor.isNativeConnectionNecessaryForNativeStatements()) {
        conToUse = this.nativeJdbcExtractor.getNativeConnection(con);
    }
    stmt = conToUse.createStatement();
    applyStatementSettings(stmt);
    Statement stmtToUse = stmt;
    if (this.nativeJdbcExtractor != null) {
        stmtToUse = this.nativeJdbcExtractor.getNativeStatement(stmt);
    }
    T result = action.doInStatement(stmtToUse);
    handleWarnings(stmt);
    return result;
}
catch (SQLException ex) {
    // Release Connection early, to avoid potential connection pool deadlock
    // in the case when the exception translator hasn't been initialized yet.
    JdbcUtils.closeStatement(stmt);
    stmt = null;
    DataSourceUtils.releaseConnection(con, getDataSource());
    con = null;
    throw getExceptionTranslator().translate("StatementCallback", getSql(action), ex);
}
finally {
    JdbcUtils.closeStatement(stmt);
    DataSourceUtils.releaseConnection(con, getDataSource());
}
}

@Override
public void execute(final String sql) throws DataAccessException {
    if (logger.isDebugEnabled()) {
        logger.debug("Executing SQL statement [" + sql + "]);
    }
    class ExecuteStatementCallback implements StatementCallback<Object>, SqlProvider {
        @Override
        public Object doInStatement(Statement stmt) throws SQLException {
            stmt.execute(sql);
            return null;
        }
        @Override
        public String getSql() {
            return sql;
        }
    }
}

```

```

    }
    }
    execute(new ExecuteStatementCallback());
}

@Override
public <T> T query(final String sql, final ResultSetExtractor<T> rse) throws DataAccessException {
    Assert.notNull(sql, "SQL must not be null");
    Assert.notNull(rse, "ResultSetExtractor must not be null");
    if (logger.isDebugEnabled()) {
        logger.debug("Executing SQL query [" + sql + "]);
    }
    class QueryStatementCallback implements StatementCallback<T>, SqlProvider {
        @Override
        public T doInStatement(Statement stmt) throws SQLException {
            ResultSet rs = null;
            try {
                rs = stmt.executeQuery(sql);
                ResultSet rsToUse = rs;
                if (nativeJdbcExtractor != null) {
                    rsToUse = nativeJdbcExtractor.getNativeResultSet(rs);
                }
                return rse.extractData(rsToUse);
            }
            finally {
                JdbcUtils.closeResultSet(rs);
            }
        }
        @Override
        public String getSql() {
            return sql;
        }
    }
    return execute(new QueryStatementCallback());
}

@Override
public void query(String sql, RowCallbackHandler rch) throws DataAccessException {
    query(sql, new RowCallbackHandlerResultSetExtractor(rch));
}

@Override
public <T> List<T> query(String sql, RowMapper<T> rowMapper) throws DataAccessException {
    return query(sql, new RowMapperResultSetExtractor<T>(rowMapper));
}

@Override
public Map<String, Object> queryForMap(String sql) throws DataAccessException {

```

```

return queryForObject(sql, getColumnMapRowMapper());
}

@Override
public <T> T queryForObject(String sql, RowMapper<T> rowMapper) throws DataAccessException {
    List<T> results = query(sql, rowMapper);
    return DataAccessUtils.requiredSingleResult(results);
}

@Override
public <T> T queryForObject(String sql, Class<T> requiredType) throws DataAccessException {
    return queryForObject(sql, getSingleColumnRowMapper(requiredType));
}

@Override
@Deprecated
public long queryForLong(String sql) throws DataAccessException {
    Number number = queryForObject(sql, Long.class);
    return (number != null ? number.longValue() : 0);
}

@Override
@Deprecated
public int queryForInt(String sql) throws DataAccessException {
    Number number = queryForObject(sql, Integer.class);
    return (number != null ? number.intValue() : 0);
}

@Override
public <T> List<T> queryForList(String sql, Class<T> elementType) throws DataAccessException {
    return query(sql, getSingleColumnRowMapper(elementType));
}

@Override
public List<Map<String, Object>> queryForList(String sql) throws DataAccessException {
    return query(sql, getColumnMapRowMapper());
}

@Override
public SqlRowSet queryForRowSet(String sql) throws DataAccessException {
    return query(sql, new SqlRowSetResultSetExtractor());
}

@Override
public int update(final String sql) throws DataAccessException {
    Assert.notNull(sql, "SQL must not be null");
    if (logger.isDebugEnabled()) {
        logger.debug("Executing SQL update [" + sql + "]");
    }
}

```

```

}
class UpdateStatementCallback implements StatementCallback<Integer>, SqlProvider {
    @Override
    public Integer doInStatement(Statement stmt) throws SQLException {
        int rows = stmt.executeUpdate(sql);
        if (logger.isDebugEnabled()) {
            logger.debug("SQL update affected " + rows + " rows");
        }
        return rows;
    }
    @Override
    public String getSql() {
        return sql;
    }
}
return execute(new UpdateStatementCallback());
}

@Override
public int[] batchUpdate(final String[] sql) throws DataAccessException {

    Assert.notEmpty(sql, "SQL array must not be empty");

    if (logger.isDebugEnabled()) {
        logger.debug("Executing SQL batch update of " + sql.length + " statements");
    }

    class BatchUpdateStatementCallback implements StatementCallback<int[]>, SqlProvider {

        private String currSql;

        @Override
        public int[] doInStatement(Statement stmt) throws SQLException, DataAccessException {

            int[] rowsAffected = new int[sql.length];

            if (JdbcUtils.supportsBatchUpdates(stmt.getConnection())) {
                for (String sqlStmnt : sql) {
                    this.currSql = appendSql(this.currSql, sqlStmnt);
                    stmt.addBatch(sqlStmnt);
                }
                try {
                    rowsAffected = stmt.executeBatch();
                }
                catch (BatchUpdateException ex) {
                    String batchExceptionSql = null;
                    for (int i = 0; i < ex.getUpdateCounts().length; i++) {
                        if (ex.getUpdateCounts()[i] == Statement.EXECUTE_FAILED) {

```

```

        batchExceptionSql = appendSql(batchExceptionSql, sql[i]);
    }
}
if (StringUtils.hasLength(batchExceptionSql)) {
    this.currSql = batchExceptionSql;
}
throw ex;
}
}
else {
    for (int i = 0; i < sql.length; i++) {
        this.currSql = sql[i];
        if (!stmt.execute(sql[i])) {
            rowsAffected[i] = stmt.getUpdateCount();
        }
        else {
            throw new InvalidDataAccessApiUsageException("Invalid batch SQL statement: " + sql[i]);
        }
    }
}
return rowsAffected;
}

```

```

private String appendSql(String sql, String statement) {
    return (StringUtils.isEmpty(sql) ? statement : sql + ";" + statement);
}

```

```

@Override
public String getSql() {
    return this.currSql;
}
}
return execute(new BatchUpdateStatementCallback());
}

```

```

//-----
// Methods dealing with prepared statements
//-----

```

```

@Override
public <T> T execute(PreparedStatementCreator psc, PreparedStatementCallback<T> action)
    throws DataAccessException {

```

```

    Assert.notNull(psc, "PreparedStatementCreator must not be null");
    Assert.notNull(action, "Callback object must not be null");
    if (logger.isDebugEnabled()) {
        String sql = getSql(psc);

```

```

logger.debug("Executing prepared SQL statement" + (sql != null ? "[" + sql + "]" : ""));
}

Connection con = DataSourceUtils.getConnection(getDataSource());
PreparedStatement ps = null;
try {
    Connection conToUse = con;
    if (this.nativeJdbcExtractor != null &&
        this.nativeJdbcExtractor.isNativeConnectionNecessaryForNativePreparedStatements()) {
        conToUse = this.nativeJdbcExtractor.getNativeConnection(con);
    }
    psc = psc.createPreparedStatement(conToUse);
    applyStatementSettings(psc);
    PreparedStatement psToUse = ps;
    if (this.nativeJdbcExtractor != null) {
        psToUse = this.nativeJdbcExtractor.getNativePreparedStatement(psc);
    }
    T result = action.doInPreparedStatement(psToUse);
    handleWarnings(psc);
    return result;
}
catch (SQLException ex) {
    // Release Connection early, to avoid potential connection pool deadlock
    // in the case when the exception translator hasn't been initialized yet.
    if (psc instanceof ParameterDisposer) {
        ((ParameterDisposer) psc).cleanupParameters();
    }
    String sql = getSql(psc);
    psc = null;
    JdbcUtils.closeStatement(psc);
    ps = null;
    DataSourceUtils.releaseConnection(con, getDataSource());
    con = null;
    throw getExceptionTranslator().translate("PreparedStatementCallback", sql, ex);
}
finally {
    if (psc instanceof ParameterDisposer) {
        ((ParameterDisposer) psc).cleanupParameters();
    }
    JdbcUtils.closeStatement(psc);
    DataSourceUtils.releaseConnection(con, getDataSource());
}
}

@Override
public <T> T execute(String sql, PreparedStatementCallback<T> action) throws DataAccessException {
    return execute(new SimplePreparedStatementCreator(sql), action);
}
}

```



```

/**
 * Query using a prepared statement, allowing for a PreparedStatementCreator
 * and a PreparedStatementSetter. Most other query methods use this method,
 * but application code will always work with either a creator or a setter.
 * @param psc Callback handler that can create a PreparedStatement given a
 * Connection
 * @param pss object that knows how to set values on the prepared statement.
 * If this is null, the SQL will be assumed to contain no bind parameters.
 * @param rse object that will extract results.
 * @return an arbitrary result object, as returned by the ResultSetExtractor
 * @throws DataAccessException if there is any problem
 */
public <T> T query(
    PreparedStatementCreator psc, final PreparedStatementSetter pss, final ResultSetExtractor<T> rse)
    throws DataAccessException {

    Assert.notNull(rse, "ResultSetExtractor must not be null");
    logger.debug("Executing prepared SQL query");

    return execute(psc, new PreparedStatementCallback<T>() {
        @Override
        public T doInPreparedStatement(PreparedStatement ps) throws SQLException {
            ResultSet rs = null;
            try {
                if (pss != null) {
                    pss.setValues(ps);
                }
                rs = ps.executeQuery();
                ResultSet rsToUse = rs;
                if (nativeJdbcExtractor != null) {
                    rsToUse = nativeJdbcExtractor.getNativeResultSet(rs);
                }
                return rse.extractData(rsToUse);
            }
            finally {
                JdbcUtils.closeResultSet(rs);
                if (pss instanceof ParameterDisposer) {
                    ((ParameterDisposer) pss).cleanupParameters();
                }
            }
        }
    });
}

@Override
public <T> T query(PreparedStatementCreator psc, ResultSetExtractor<T> rse) throws DataAccessException {
    return query(psc, null, rse);
}

```

```
}
```

```
@Override
```

```
public <T> T query(String sql, PreparedStatementSetter pss, ResultSetExtractor<T> rse) throws  
DataAccessException {  
    return query(new SimplePreparedStatementCreator(sql), pss, rse);  
}
```

```
@Override
```

```
public <T> T query(String sql, Object[] args, int[] argTypes, ResultSetExtractor<T> rse) throws  
DataAccessException {  
    return query(sql, new ArgPreparedStatementSetter(args, argTypes), rse);  
}
```

```
@Override
```

```
public <T> T query(String sql, Object[] args, ResultSetExtractor<T> rse) throws DataAccessException {  
    return query(sql, new ArgPreparedStatementSetter(args), rse);  
}
```

```
@Override
```

```
public <T> T query(String sql, ResultSetExtractor<T> rse, Object... args) throws DataAccessException {  
    return query(sql, new ArgPreparedStatementSetter(args), rse);  
}
```

```
@Override
```

```
public void query(PreparedStatementCreator psc, RowCallbackHandler rch) throws DataAccessException {  
    query(psc, new RowCallbackHandlerResultSetExtractor(rch));  
}
```

```
@Override
```

```
public void query(String sql, PreparedStatementSetter pss, RowCallbackHandler rch) throws DataAccessException  
{  
    query(sql, pss, new RowCallbackHandlerResultSetExtractor(rch));  
}
```

```
@Override
```

```
public void query(String sql, Object[] args, int[] argTypes, RowCallbackHandler rch) throws DataAccessException  
{  
    query(sql, new ArgPreparedStatementSetter(args, argTypes), rch);  
}
```

```
@Override
```

```
public void query(String sql, Object[] args, RowCallbackHandler rch) throws DataAccessException {  
    query(sql, new ArgPreparedStatementSetter(args), rch);  
}
```

```
@Override
```

```
public void query(String sql, RowCallbackHandler rch, Object... args) throws DataAccessException {
```

```
query(sql, new ArgPreparedStatementSetter(args), rch);
}
```

```
@Override
```

```
public <T> List<T> query(PreparedStatementCreator psc, RowMapper<T> rowMapper) throws
DataAccessException {
    return query(psc, new RowMapperResultSetExtractor<T>(rowMapper));
}
```

```
@Override
```

```
public <T> List<T> query(String sql, PreparedStatementSetter pss, RowMapper<T> rowMapper) throws
DataAccessException {
    return query(sql, pss, new RowMapperResultSetExtractor<T>(rowMapper));
}
```

```
@Override
```

```
public <T> List<T> query(String sql, Object[] args, int[] argTypes, RowMapper<T> rowMapper) throws
DataAccessException {
    return query(sql, args, argTypes, new RowMapperResultSetExtractor<T>(rowMapper));
}
```

```
@Override
```

```
public <T> List<T> query(String sql, Object[] args, RowMapper<T> rowMapper) throws DataAccessException {
    return query(sql, args, new RowMapperResultSetExtractor<T>(rowMapper));
}
```

```
@Override
```

```
public <T> List<T> query(String sql, RowMapper<T> rowMapper, Object... args) throws DataAccessException {
    return query(sql, args, new RowMapperResultSetExtractor<T>(rowMapper));
}
```

```
@Override
```

```
public <T> T queryForObject(String sql, Object[] args, int[] argTypes, RowMapper<T> rowMapper)
throws DataAccessException {
```

```
List<T> results = query(sql, args, argTypes, new RowMapperResultSetExtractor<T>(rowMapper, 1));
return DataAccessUtils.requiredSingleResult(results);
}
```

```
@Override
```

```
public <T> T queryForObject(String sql, Object[] args, RowMapper<T> rowMapper) throws DataAccessException
{
    List<T> results = query(sql, args, new RowMapperResultSetExtractor<T>(rowMapper, 1));
    return DataAccessUtils.requiredSingleResult(results);
}
```

```
@Override
```

```
public <T> T queryForObject(String sql, RowMapper<T> rowMapper, Object... args) throws DataAccessException
```

```

{
    List<T> results = query(sql, args, new RowMapperResultSetExtractor<T>(rowMapper, 1));
    return DataAccessUtils.requiredSingleResult(results);
}

@Override
public <T> T queryForObject(String sql, Object[] args, int[] argTypes, Class<T> requiredType)
    throws DataAccessException {

    return queryForObject(sql, args, argTypes, getSingleColumnRowMapper(requiredType));
}

@Override
public <T> T queryForObject(String sql, Object[] args, Class<T> requiredType) throws DataAccessException {
    return queryForObject(sql, args, getSingleColumnRowMapper(requiredType));
}

@Override
public <T> T queryForObject(String sql, Class<T> requiredType, Object... args) throws DataAccessException {
    return queryForObject(sql, args, getSingleColumnRowMapper(requiredType));
}

@Override
public Map<String, Object> queryForMap(String sql, Object[] args, int[] argTypes) throws DataAccessException {
    return queryForObject(sql, args, argTypes, getColumnMapRowMapper());
}

@Override
public Map<String, Object> queryForMap(String sql, Object... args) throws DataAccessException {
    return queryForObject(sql, args, getColumnMapRowMapper());
}

@Override
@Override
public long queryForLong(String sql, Object[] args, int[] argTypes) throws DataAccessException {
    Number number = queryForObject(sql, args, argTypes, Long.class);
    return (number != null ? number.longValue() : 0);
}

@Override
@Override
public long queryForLong(String sql, Object... args) throws DataAccessException {
    Number number = queryForObject(sql, args, Long.class);
    return (number != null ? number.longValue() : 0);
}

@Override
@Override

```

```

public int queryForInt(String sql, Object[] args, int[] argTypes) throws DataAccessException {
    Number number = queryForObject(sql, args, argTypes, Integer.class);
    return (number != null ? number.intValue() : 0);
}

@Override
@Deprecated
public int queryForInt(String sql, Object... args) throws DataAccessException {
    Number number = queryForObject(sql, args, Integer.class);
    return (number != null ? number.intValue() : 0);
}

@Override
public <T> List<T> queryForList(String sql, Object[] args, int[] argTypes, Class<T> elementType) throws
DataAccessException {
    return query(sql, args, argTypes, getSingleColumnRowMapper(elementType));
}

@Override
public <T> List<T> queryForList(String sql, Object[] args, Class<T> elementType) throws DataAccessException {
    return query(sql, args, getSingleColumnRowMapper(elementType));
}

@Override
public <T> List<T> queryForList(String sql, Class<T> elementType, Object... args) throws DataAccessException {
    return query(sql, args, getSingleColumnRowMapper(elementType));
}

@Override
public List<Map<String, Object>> queryForList(String sql, Object[] args, int[] argTypes) throws
DataAccessException {
    return query(sql, args, argTypes, getColumnMapRowMapper());
}

@Override
public List<Map<String, Object>> queryForList(String sql, Object... args) throws DataAccessException {
    return query(sql, args, getColumnMapRowMapper());
}

@Override
public SqlRowSet queryForRowSet(String sql, Object[] args, int[] argTypes) throws DataAccessException {
    return query(sql, args, argTypes, new SqlRowSetResultSetExtractor());
}

@Override
public SqlRowSet queryForRowSet(String sql, Object... args) throws DataAccessException {
    return query(sql, args, new SqlRowSetResultSetExtractor());
}

```

```

protected int update(final PreparedStatementCreator psc, final PreparedStatementSetter pss)
    throws DataAccessException {

    logger.debug("Executing prepared SQL update");
    return execute(psc, new PreparedStatementCallback<Integer>() {
        @Override
        public Integer doInPreparedStatement(PreparedStatement ps) throws SQLException {
            try {
                if (pss != null) {
                    pss.setValues(ps);
                }
                int rows = ps.executeUpdate();
                if (logger.isDebugEnabled()) {
                    logger.debug("SQL update affected " + rows + " rows");
                }
                return rows;
            }
            finally {
                if (pss instanceof ParameterDisposer) {
                    ((ParameterDisposer) pss).cleanupParameters();
                }
            }
        }
    });
}

```

```

@Override
public int update(PreparedStatementCreator psc) throws DataAccessException {
    return update(psc, (PreparedStatementSetter) null);
}

```

```

@Override
public int update(final PreparedStatementCreator psc, final KeyHolder generatedKeyHolder)
    throws DataAccessException {

```

```

    Assert.notNull(generatedKeyHolder, "KeyHolder must not be null");
    logger.debug("Executing SQL update and returning generated keys");

```

```

    return execute(psc, new PreparedStatementCallback<Integer>() {
        @Override
        public Integer doInPreparedStatement(PreparedStatement ps) throws SQLException {
            int rows = ps.executeUpdate();
            List<Map<String, Object>> generatedKeys = generatedKeyHolder.getKeyList();
            generatedKeys.clear();
            ResultSet keys = ps.getGeneratedKeys();
            if (keys != null) {
                try {

```

```

    RowMapperResultSetExtractor<Map<String, Object>> rse =
        new RowMapperResultSetExtractor<Map<String, Object>>(getColumnMapRowMapper(), 1);
    generatedKeys.addAll(rse.extractData(keys));
}
finally {
    JdbcUtils.closeResultSet(keys);
}
}
if (logger.isDebugEnabled()) {
    logger.debug("SQL update affected " + rows + " rows and returned " + generatedKeys.size() + " keys");
}
return rows;
}
});
}

```

```

@Override
public int update(String sql, PreparedStatementSetter pss) throws DataAccessException {
    return update(new SimplePreparedStatementCreator(sql), pss);
}

```

```

@Override
public int update(String sql, Object[] args, int[] argTypes) throws DataAccessException {
    return update(sql, new ArgTypePreparedStatementSetter(args, argTypes));
}

```

```

@Override
public int update(String sql, Object... args) throws DataAccessException {
    return update(sql, new ArgPreparedStatementSetter(args));
}

```

```

@Override
public int[] batchUpdate(String sql, final BatchPreparedStatementSetter pss) throws DataAccessException {
    if (logger.isDebugEnabled()) {
        logger.debug("Executing SQL batch update [" + sql + "]");
    }
}

```

```

return execute(sql, new PreparedStatementCallback<int[]>() {
    @Override
    public int[] doInPreparedStatement(PreparedStatement ps) throws SQLException {
        try {
            int batchSize = pss.getBatchSize();
            InterruptibleBatchPreparedStatementSetter ipss =
                (pss instanceof InterruptibleBatchPreparedStatementSetter ?
                 (InterruptibleBatchPreparedStatementSetter) pss : null);
            if (JdbcUtils.supportsBatchUpdates(ps.getConnection())) {
                for (int i = 0; i < batchSize; i++) {
                    pss.setValues(ps, i);
                }
            }
        }
    }
}

```

```

    if (ipss != null && ipss.isBatchExhausted(i)) {
        break;
    }
    ps.addBatch();
}
return ps.executeBatch();
}
else {
    List<Integer> rowsAffected = new ArrayList<Integer>();
    for (int i = 0; i < batchSize; i++) {
        pss.setValues(ps, i);
        if (ipss != null && ipss.isBatchExhausted(i)) {
            break;
        }
        rowsAffected.add(ps.executeUpdate());
    }
    int[] rowsAffectedArray = new int[rowsAffected.size()];
    for (int i = 0; i < rowsAffectedArray.length; i++) {
        rowsAffectedArray[i] = rowsAffected.get(i);
    }
    return rowsAffectedArray;
}
}
}
finally {
    if (pss instanceof ParameterDisposer) {
        ((ParameterDisposer) pss).cleanupParameters();
    }
}
});
}
}

```

@Override

```

public int[] batchUpdate(String sql, List<Object[]> batchArgs) {
    return batchUpdate(sql, batchArgs, new int[0]);
}

```

@Override

```

public int[] batchUpdate(String sql, List<Object[]> batchArgs, int[] argTypes) {
    return BatchUpdateUtils.executeBatchUpdate(sql, batchArgs, argTypes, this);
}

```

/*

* (non-Javadoc)

* @see org.springframework.jdbc.core.JdbcOperations#batchUpdate(java.lang.String, java.util.Collection, int, org.springframework.jdbc.core.ParameterizedPreparedStatementSetter)

*

* Contribution by Nicolas Fabre


```

*/
@Override
public <T> int[][] batchUpdate(String sql, final Collection<T> batchArgs, final int batchSize, final
ParameterizedPreparedStatementSetter<T> pss) {
    if (logger.isDebugEnabled()) {
        logger.debug("Executing SQL batch update [" + sql + "] with a batch size of " + batchSize);
    }
    return execute(sql, new PreparedStatementCallback<int[][]>() {
        @Override
        public int[][] doInPreparedStatement(PreparedStatement ps) throws SQLException {
            List<int[]> rowsAffected = new ArrayList<int[]>();
            try {
                boolean batchSupported = true;
                if (!JdbcUtils.supportsBatchUpdates(ps.getConnection())) {
                    batchSupported = false;
                    logger.warn("JDBC Driver does not support Batch updates; resorting to single statement execution");
                }
                int n = 0;
                for (T obj : batchArgs) {
                    pss.setValues(ps, obj);
                    n++;
                    if (batchSupported) {
                        ps.addBatch();
                        if (n % batchSize == 0 || n == batchArgs.size()) {
                            if (logger.isDebugEnabled()) {
                                int batchIdx = (n % batchSize == 0) ? n / batchSize : (n / batchSize) + 1;
                                int items = n - ((n % batchSize == 0) ? n / batchSize - 1 : (n / batchSize)) * batchSize;
                                logger.debug("Sending SQL batch update #" + batchIdx + " with " + items + " items");
                            }
                            rowsAffected.add(ps.executeBatch());
                        }
                    }
                    else {
                        int i = ps.executeUpdate();
                        rowsAffected.add(new int[] {i});
                    }
                }
                int[][] result = new int[rowsAffected.size()][];
                for (int i = 0; i < result.length; i++) {
                    result[i] = rowsAffected.get(i);
                }
                return result;
            } finally {
                if (pss instanceof ParameterDisposer) {
                    ((ParameterDisposer) pss).cleanupParameters();
                }
            }
        }
    }
}

```

```

});
}

//-----
// Methods dealing with callable statements
//-----

@Override
public <T> T execute(CallableStatementCreator csc, CallableStatementCallback<T> action)
    throws DataAccessException {

    Assert.notNull(csc, "CallableStatementCreator must not be null");
    Assert.notNull(action, "Callback object must not be null");
    if (logger.isDebugEnabled()) {
        String sql = getSql(csc);
        logger.debug("Calling stored procedure" + (sql != null ? " [" + sql + "]" : ""));
    }

    Connection con = DataSourceUtils.getConnection(getDataSource());
    CallableStatement cs = null;
    try {
        Connection conToUse = con;
        if (this.nativeJdbcExtractor != null) {
            conToUse = this.nativeJdbcExtractor.getNativeConnection(con);
        }
        cs = csc.createCallableStatement(conToUse);
        applyStatementSettings(cs);
        CallableStatement csToUse = cs;
        if (this.nativeJdbcExtractor != null) {
            csToUse = this.nativeJdbcExtractor.getNativeCallableStatement(cs);
        }
        T result = action.doInCallableStatement(csToUse);
        handleWarnings(cs);
        return result;
    }
    catch (SQLException ex) {
        // Release Connection early, to avoid potential connection pool deadlock
        // in the case when the exception translator hasn't been initialized yet.
        if (csc instanceof ParameterDisposer) {
            ((ParameterDisposer) csc).cleanupParameters();
        }
        String sql = getSql(csc);
        csc = null;
        JdbcUtils.closeStatement(cs);
        cs = null;
        DataSourceUtils.releaseConnection(con, getDataSource());
        con = null;
        throw getExceptionTranslator().translate("CallableStatementCallback", sql, ex);
    }
}

```

```

    }
    finally {
        if (csc instanceof ParameterDisposer) {
            ((ParameterDisposer) csc).cleanupParameters();
        }
        JdbcUtils.closeStatement(cs);
        DataSourceUtils.releaseConnection(con, getDataSource());
    }
}

@Override
public <T> T execute(String callString, CallableStatementCallback<T> action) throws DataAccessException {
    return execute(new SimpleCallableStatementCreator(callString), action);
}

@Override
public Map<String, Object> call(CallableStatementCreator csc, List<SqlParameter> declaredParameters)
    throws DataAccessException {

    final List<SqlParameter> updateCountParameters = new ArrayList<SqlParameter>();
    final List<SqlParameter> resultSetParameters = new ArrayList<SqlParameter>();
    final List<SqlParameter> callParameters = new ArrayList<SqlParameter>();
    for (SqlParameter parameter : declaredParameters) {
        if (parameter.isResultsParameter()) {
            if (parameter instanceof SqlReturnResultSet) {
                resultSetParameters.add(parameter);
            }
            else {
                updateCountParameters.add(parameter);
            }
        }
        else {
            callParameters.add(parameter);
        }
    }
    return execute(csc, new CallableStatementCallback<Map<String, Object>>() {

        @Override
        public Map<String, Object> doInCallableStatement(CallableStatement cs) throws SQLException {
            boolean retVal = cs.execute();
            int updateCount = cs.getUpdateCount();
            if (logger.isDebugEnabled()) {
                logger.debug("CallableStatement.execute() returned '" + retVal + "'");
                logger.debug("CallableStatement.getUpdateCount() returned " + updateCount);
            }
            Map<String, Object> returnedResults = createResultsMap();
            if (retVal || updateCount != -1) {
                returnedResults.putAll(extractReturnedResults(cs, updateCountParameters, resultSetParameters, updateCount));
            }
        }
    });
}

```

```

        returnedResults.putAll(extractOutputParameters(cs, callParameters));
    }
    return returnedResults;
}
});
}

/**
 * Extract returned ResultSets from the completed stored procedure.
 * @param cs JDBC wrapper for the stored procedure
 * @param updateCountParameters Parameter list of declared update count parameters for the stored procedure
 * @param resultSetParameters Parameter list of declared resultSet parameters for the stored procedure
 * @return Map that contains returned results
 */
protected Map<String, Object> extractReturnedResults(CallableStatement cs,
    List<SqlParameter> updateCountParameters, List<SqlParameter> resultSetParameters, int updateCount)
    throws SQLException {

    Map<String, Object> returnedResults = new HashMap<String, Object>();
    int rsIndex = 0;
    int updateIndex = 0;
    boolean moreResults;
    if (!this.skipResultsProcessing) {
        do {
            if (updateCount == -1) {
                if (resultSetParameters != null && resultSetParameters.size() > rsIndex) {
                    SqlReturnResultSet declaredRsParam = (SqlReturnResultSet) resultSetParameters.get(rsIndex);
                    returnedResults.putAll(processResultSet(cs.getResultSet(), declaredRsParam));
                    rsIndex++;
                }
            }
            else {
                if (!this.skipUndeclaredResults) {
                    String rsName = RETURN_RESULT_SET_PREFIX + (rsIndex + 1);
                    SqlReturnResultSet undeclaredRsParam = new SqlReturnResultSet(rsName, new ColumnMapRowMapper());
                    if (logger.isDebugEnabled()) {
                        logger.debug("Added default SqlReturnResultSet parameter named " + rsName + "");
                    }
                    returnedResults.putAll(processResultSet(cs.getResultSet(), undeclaredRsParam));
                    rsIndex++;
                }
            }
        }
        while (moreResults);
    }
    else {
        if (updateCountParameters != null && updateCountParameters.size() > updateIndex) {
            SqlReturnUpdateCount ucParam = (SqlReturnUpdateCount) updateCountParameters.get(updateIndex);
            String declaredUcName = ucParam.getName();
            returnedResults.put(declaredUcName, updateCount);
            updateIndex++;
        }
    }
}

```

```

else {
    if (!this.skipUndeclaredResults) {
        String undeclaredName = RETURN_UPDATE_COUNT_PREFIX + (updateIndex + 1);
        if (logger.isDebugEnabled()) {
            logger.debug("Added default SqlReturnUpdateCount parameter named '" + undeclaredName + "'");
        }
        returnedResults.put(undeclaredName, updateCount);
        updateIndex++;
    }
}
}
}
moreResults = cs.getMoreResults();
updateCount = cs.getUpdateCount();
if (logger.isDebugEnabled()) {
    logger.debug("CallableStatement.getUpdateCount() returned " + updateCount);
}
}
while (moreResults || updateCount != -1);
}
return returnedResults;
}

/**
 * Extract output parameters from the completed stored procedure.
 * @param cs JDBC wrapper for the stored procedure
 * @param parameters parameter list for the stored procedure
 * @return Map that contains returned results
 */
protected Map<String, Object> extractOutputParameters(CallableStatement cs, List<SqlParameter> parameters)
    throws SQLException {

    Map<String, Object> returnedResults = new HashMap<String, Object>();
    int sqlColIndex = 1;
    for (SqlParameter param : parameters) {
        if (param instanceof SqlOutParameter) {
            SqlOutParameter outParam = (SqlOutParameter) param;
            if (outParam.isReturnTypesSupported()) {
                Object out = outParam.getSqlReturnType().getTypeValue(
                    cs, sqlColIndex, outParam.getSqlType(), outParam.getTypeName());
                returnedResults.put(outParam.getName(), out);
            }
        }
        else {
            Object out = cs.getObject(sqlColIndex);
            if (out instanceof ResultSet) {
                if (outParam.isResultSetSupported()) {
                    returnedResults.putAll(processResultSet((ResultSet) out, outParam));
                }
            }
            else {

```

```

String rsName = outParam.getName();
SqlReturnResultSet rsParam = new SqlReturnResultSet(rsName, new ColumnMapRowMapper());
returnedResults.putAll(processResultSet((ResultSet) out, rsParam));
if (logger.isDebugEnabled()) {
    logger.debug("Added default SqlReturnResultSet parameter named '" + rsName + "'");
}
}
}
else {
    returnedResults.put(outParam.getName(), out);
}
}
}
if (!(param.isResultsParameter())) {
    sqlColIndex++;
}
}
return returnedResults;
}

/**
 * Process the given ResultSet from a stored procedure.
 * @param rs the ResultSet to process
 * @param param the corresponding stored procedure parameter
 * @return Map that contains returned results
 */
@SuppressWarnings({ "unchecked", "rawtypes" })
protected Map<String, Object> processResultSet(ResultSet rs, ResultSetSupportingSqlParameter param) throws
SQLException {
    if (rs == null) {
        return Collections.emptyMap();
    }
    Map<String, Object> returnedResults = new HashMap<String, Object>();
    try {
        ResultSet rsToUse = rs;
        if (this.nativeJdbcExtractor != null) {
            rsToUse = this.nativeJdbcExtractor.getNativeResultSet(rs);
        }
        if (param.getRowMapper() != null) {
            RowMapper rowMapper = param.getRowMapper();
            Object result = (new RowMapperResultSetExtractor(rowMapper)).extractData(rsToUse);
            returnedResults.put(param.getName(), result);
        }
        else if (param.getRowCallbackHandler() != null) {
            RowCallbackHandler rch = param.getRowCallbackHandler();
            (new RowCallbackHandlerResultSetExtractor(rch)).extractData(rsToUse);
            returnedResults.put(param.getName(), "ResultSet returned from stored procedure was processed");
        }
    }
}

```

```

else if (param.getResultSetExtractor() != null) {
    Object result = param.getResultSetExtractor().extractData(rsToUse);
    returnedResults.put(param.getName(), result);
}
}
finally {
    JdbcUtils.closeResultSet(rs);
}
return returnedResults;
}

//-----
// Implementation hooks and helper methods
//-----

/**
 * Create a new RowMapper for reading columns as key-value pairs.
 * @return the RowMapper to use
 * @see ColumnMapRowMapper
 */
protected RowMapper<Map<String, Object>> getColumnMapRowMapper() {
    return new ColumnMapRowMapper();
}

/**
 * Create a new RowMapper for reading result objects from a single column.
 * @param requiredType the type that each result object is expected to match
 * @return the RowMapper to use
 * @see SingleColumnRowMapper
 */
protected <T> RowMapper<T> getSingleColumnRowMapper(Class<T> requiredType) {
    return new SingleColumnRowMapper<T>(requiredType);
}

/**
 * Create a Map instance to be used as results map.
 * <p>If "isResultsMapCaseInsensitive" has been set to true,
 * a linked case-insensitive Map will be created.
 * @return the results Map instance
 * @see #setResultsMapCaseInsensitive
 */
protected Map<String, Object> createResultsMap() {
    if (isResultsMapCaseInsensitive()) {
        return new LinkedCaseInsensitiveMap<Object>();
    }
    else {
        return new LinkedHashMap<String, Object>();
    }
}

```

```

    }
}

/**
 * Prepare the given JDBC Statement (or PreparedStatement or CallableStatement),
 * applying statement settings such as fetch size, max rows, and query timeout.
 * @param stmt the JDBC Statement to prepare
 * @throws SQLException if thrown by JDBC API
 * @see #setFetchSize
 * @see #setMaxRows
 * @see #setQueryTimeout
 * @see org.springframework.jdbc.datasource.DataSourceUtils#applyTransactionTimeout
 */
protected void applyStatementSettings(Statement stmt) throws SQLException {
    int fetchSize = getFetchSize();
    if (fetchSize > 0) {
        stmt.setFetchSize(fetchSize);
    }
    int maxRows = getMaxRows();
    if (maxRows > 0) {
        stmt.setMaxRows(maxRows);
    }
    DataSourceUtils.applyTimeout(stmt, getDataSource(), getQueryTimeout());
}

/**
 * Create a new arg-based PreparedStatementSetter using the args passed in.
 * <p>By default, we'll create an { @link ArgumentPreparedStatementSetter }.
 * This method allows for the creation to be overridden by subclasses.
 * @param args object array with arguments
 * @return the new PreparedStatementSetter to use
 */
protected PreparedStatementSetter newArgPreparedStatementSetter(Object[] args) {
    return new ArgumentPreparedStatementSetter(args);
}

/**
 * Create a new arg-type-based PreparedStatementSetter using the args and types passed in.
 * <p>By default, we'll create an { @link ArgumentTypePreparedStatementSetter }.
 * This method allows for the creation to be overridden by subclasses.
 * @param args object array with arguments
 * @param argTypes int array of SQLTypes for the associated arguments
 * @return the new PreparedStatementSetter to use
 */
protected PreparedStatementSetter newArgTypePreparedStatementSetter(Object[] args, int[] argTypes) {
    return new ArgumentTypePreparedStatementSetter(args, argTypes);
}

```



```

/**
 * Throw an SQLWarningException if we're not ignoring warnings,
 * else log the warnings (at debug level).
 * @param stmt the current JDBC statement
 * @throws SQLWarningException if not ignoring warnings
 * @see org.springframework.jdbc.SQLWarningException
 */
protected void handleWarnings(Statement stmt) throws SQLException {
    if (isIgnoreWarnings()) {
        if (logger.isDebugEnabled()) {
            SQLWarning warningToLog = stmt.getWarnings();
            while (warningToLog != null) {
                logger.debug("SQLWarning ignored: SQL state " + warningToLog.getSQLState() + ", error code " +
                    warningToLog.getErrorCode() + ", message [" + warningToLog.getMessage() + "]");
                warningToLog = warningToLog.getNextWarning();
            }
        }
    }
    else {
        handleWarnings(stmt.getWarnings());
    }
}

/**
 * Throw an SQLWarningException if encountering an actual warning.
 * @param warning the warnings object from the current statement.
 * May be {@code null}, in which case this method does nothing.
 * @throws SQLWarningException in case of an actual warning to be raised
 */
protected void handleWarnings(SQLWarning warning) throws SQLWarningException {
    if (warning != null) {
        throw new SQLWarningException("Warning not ignored", warning);
    }
}

/**
 * Determine SQL from potential provider object.
 * @param sqlProvider object that's potentially a SqlProvider
 * @return the SQL string, or {@code null}
 * @see SqlProvider
 */
private static String getSql(Object sqlProvider) {
    if (sqlProvider instanceof SqlProvider) {
        return ((SqlProvider) sqlProvider).getSql();
    }
    else {
        return null;
    }
}

```

```

}

/**
 * Invocation handler that suppresses close calls on JDBC Connections.
 * Also prepares returned Statement (Prepared/CallbackStatement) objects.
 * @see java.sql.Connection#close()
 */
private class CloseSuppressingInvocationHandler implements InvocationHandler {

    private final Connection target;

    public CloseSuppressingInvocationHandler(Connection target) {
        this.target = target;
    }

    @Override
    @SuppressWarnings("rawtypes")
    public Object invoke(Object proxy, Method method, Object[] args) throws Throwable {
        // Invocation on ConnectionProxy interface coming in...

        if (method.getName().equals("equals")) {
            // Only consider equal when proxies are identical.
            return (proxy == args[0]);
        }
        else if (method.getName().equals("hashCode")) {
            // Use hashCode of PersistenceManager proxy.
            return System.identityHashCode(proxy);
        }
        else if (method.getName().equals("unwrap")) {
            if (((Class) args[0]).isInstance(proxy)) {
                return proxy;
            }
        }
        else if (method.getName().equals("isWrapperFor")) {
            if (((Class) args[0]).isInstance(proxy)) {
                return true;
            }
        }
        else if (method.getName().equals("close")) {
            // Handle close method: suppress, not valid.
            return null;
        }
        else if (method.getName().equals("isClosed")) {
            return false;
        }
        else if (method.getName().equals("getTargetConnection")) {
            // Handle getTargetConnection method: return underlying Connection.

```

```

    return this.target;
}

// Invoke method on target Connection.
try {
    Object retVal = method.invoke(this.target, args);

    // If return value is a JDBC Statement, apply statement settings
    // (fetch size, max rows, transaction timeout).
    if (retVal instanceof Statement) {
        applyStatementSettings(((Statement) retVal));
    }

    return retVal;
}
catch (InvocationTargetException ex) {
    throw ex.getTargetException();
}
}

/**
 * Simple adapter for PreparedStatementCreator, allowing to use a plain SQL statement.
 */
private static class SimplePreparedStatementCreator implements PreparedStatementCreator, SqlProvider {

    private final String sql;

    public SimplePreparedStatementCreator(String sql) {
        Assert.notNull(sql, "SQL must not be null");
        this.sql = sql;
    }

    @Override
    public PreparedStatement createPreparedStatement(Connection con) throws SQLException {
        return con.prepareStatement(this.sql);
    }

    @Override
    public String getSql() {
        return this.sql;
    }
}

/**
 * Simple adapter for CallableStatementCreator, allowing to use a plain SQL statement.

```

```

*/
private static class SimpleCallableStatementCreator implements CallableStatementCreator, SqlProvider {

    private final String callString;

    public SimpleCallableStatementCreator(String callString) {
        Assert.notNull(callString, "Call string must not be null");
        this.callString = callString;
    }

    @Override
    public CallableStatement createCallableStatement(Connection con) throws SQLException {
        return con.prepareCall(this.callString);
    }

    @Override
    public String getSql() {
        return this.callString;
    }
}

/**
 * Adapter to enable use of a RowCallbackHandler inside a ResultSetExtractor.
 * <p>Uses a regular ResultSet, so we have to be careful when using it:
 * We don't use it for navigating since this could lead to unpredictable consequences.
 */
private static class RowCallbackHandlerResultSetExtractor implements ResultSetExtractor<Object> {

    private final RowCallbackHandler rch;

    public RowCallbackHandlerResultSetExtractor(RowCallbackHandler rch) {
        this.rch = rch;
    }

    @Override
    public Object extractData(ResultSet rs) throws SQLException {
        while (rs.next()) {
            this.rch.processRow(rs);
        }
        return null;
    }
}

}
/*
 * Copyright 2002-2013 the original author or authors.
 *

```

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- * limitations under the License.
- */

```
package org.springframework.jdbc.core.namedparam;
```

```
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import javax.sql.DataSource;
```

```
import org.springframework.dao.DataAccessException;
import org.springframework.dao.support.DataAccessUtils;
import org.springframework.jdbc.core.ColumnMapRowMapper;
import org.springframework.jdbc.core.JdbcOperations;
import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.jdbc.core.PreparedStatementCallback;
import org.springframework.jdbc.core.PreparedStatementCreator;
import org.springframework.jdbc.core.PreparedStatementCreatorFactory;
import org.springframework.jdbc.core.ResultSetExtractor;
import org.springframework.jdbc.core.RowCallbackHandler;
import org.springframework.jdbc.core.RowMapper;
import org.springframework.jdbc.core.SingleColumnRowMapper;
import org.springframework.jdbc.core.SqlParameter;
import org.springframework.jdbc.core.SqlRowSetResultSetExtractor;
import org.springframework.jdbc.support.KeyHolder;
import org.springframework.jdbc.support.rowset.SqlRowSet;
import org.springframework.util.Assert;
```

```
/**
```

```
* Template class with a basic set of JDBC operations, allowing the use
* of named parameters rather than traditional '?' placeholders.
```

```
*
```

```
* <p>This class delegates to a wrapped { @link #getJdbcOperations() JdbcTemplate }
* once the substitution from named parameters to JDBC style '?' placeholders is
* done at execution time. It also allows for expanding a { @link java.util.List }
* of values to the appropriate number of placeholders.
```

```
*
```

```
* <p>The underlying { @link org.springframework.jdbc.core.JdbcTemplate } is
```

```

* exposed to allow for convenient access to the traditional
* { @link org.springframework.jdbc.core.JdbcTemplate } methods.
*
* @author Thomas Risberg
* @author Juergen Hoeller
* @since 2.0
* @see NamedParameterJdbcOperations
* @see org.springframework.jdbc.core.JdbcTemplate
*/
public class NamedParameterJdbcTemplate implements NamedParameterJdbcOperations {

    /** Default maximum number of entries for this template's SQL cache: 256 */
    public static final int DEFAULT_CACHE_LIMIT = 256;

    /** The JdbcTemplate we are wrapping */
    private final JdbcOperations classicJdbcTemplate;

    private volatile int cacheLimit = DEFAULT_CACHE_LIMIT;

    /** Cache of original SQL String to ParsedSql representation */
    @SuppressWarnings("serial")
    private final Map<String, ParsedSql> parsedSqlCache =
        new LinkedHashMap<String, ParsedSql>(DEFAULT_CACHE_LIMIT, 0.75f, true) {
            @Override
            protected boolean removeEldestEntry(Map.Entry<String, ParsedSql> eldest) {
                return size() > getCacheLimit();
            }
        };

    /**
     * Create a new NamedParameterJdbcTemplate for the given { @link DataSource}.
     * <p>Creates a classic Spring { @link org.springframework.jdbc.core.JdbcTemplate } and wraps it.
     * @param dataSource the JDBC DataSource to access
     */
    public NamedParameterJdbcTemplate(DataSource dataSource) {
        Assert.notNull(dataSource, "DataSource must not be null");
        this.classicJdbcTemplate = new JdbcTemplate(dataSource);
    }

    /**
     * Create a new NamedParameterJdbcTemplate for the given classic
     * Spring { @link org.springframework.jdbc.core.JdbcTemplate}.
     * @param classicJdbcTemplate the classic Spring JdbcTemplate to wrap
     */
    public NamedParameterJdbcTemplate(JdbcOperations classicJdbcTemplate) {
        Assert.notNull(classicJdbcTemplate, "JdbcTemplate must not be null");
    }

```

```

this.classicJdbcTemplate = classicJdbcTemplate;
}

/**
 * Expose the classic Spring JdbcTemplate to allow invocation of
 * less commonly used methods.
 */
@Override
public JdbcOperations getJdbcOperations() {
    return this.classicJdbcTemplate;
}

/**
 * Specify the maximum number of entries for this template's SQL cache.
 * Default is 256.
 */
public void setCacheLimit(int cacheLimit) {
    this.cacheLimit = cacheLimit;
}

/**
 * Return the maximum number of entries for this template's SQL cache.
 */
public int getCacheLimit() {
    return this.cacheLimit;
}

@Override
public <T> T execute(String sql, SqlParameterSource paramSource, PreparedStatementCallback<T> action)
    throws DataAccessException {

    return getJdbcOperations().execute(getPreparedStatementCreator(sql, paramSource), action);
}

@Override
public <T> T execute(String sql, Map<String, ?> paramMap, PreparedStatementCallback<T> action)
    throws DataAccessException {

    return execute(sql, new MapSqlParameterSource(paramMap), action);
}

@Override
public <T> T execute(String sql, PreparedStatementCallback<T> action) throws DataAccessException {
    return execute(sql, EmptySqlParameterSource.INSTANCE, action);
}

```

```

@Override
public <T> T query(String sql, SqlParameterSource paramSource, ResultSetExtractor<T> rse)
    throws DataAccessException {

    return getJdbcOperations().query(getPreparedStatementCreator(sql, paramSource), rse);
}

@Override
public <T> T query(String sql, Map<String, ?> paramMap, ResultSetExtractor<T> rse)
    throws DataAccessException {

    return query(sql, new MapSqlParameterSource(paramMap), rse);
}

@Override
public <T> T query(String sql, ResultSetExtractor<T> rse) throws DataAccessException {
    return query(sql, EmptySqlParameterSource.INSTANCE, rse);
}

@Override
public void query(String sql, SqlParameterSource paramSource, RowCallbackHandler rch)
    throws DataAccessException {

    getJdbcOperations().query(getPreparedStatementCreator(sql, paramSource), rch);
}

@Override
public void query(String sql, Map<String, ?> paramMap, RowCallbackHandler rch)
    throws DataAccessException {

    query(sql, new MapSqlParameterSource(paramMap), rch);
}

@Override
public void query(String sql, RowCallbackHandler rch) throws DataAccessException {
    query(sql, EmptySqlParameterSource.INSTANCE, rch);
}

@Override
public <T> List<T> query(String sql, SqlParameterSource paramSource, RowMapper<T> rowMapper)
    throws DataAccessException {

    return getJdbcOperations().query(getPreparedStatementCreator(sql, paramSource), rowMapper);
}

@Override
public <T> List<T> query(String sql, Map<String, ?> paramMap, RowMapper<T> rowMapper)
    throws DataAccessException {

```



```
return query(sql, new MapSqlParameterSource(paramMap), rowMapper);
}
```

```
@Override
```

```
public <T> List<T> query(String sql, RowMapper<T> rowMapper) throws DataAccessException {
    return query(sql, EmptySqlParameterSource.INSTANCE, rowMapper);
}
```

```
@Override
```

```
public <T> T queryForObject(String sql, SqlParameterSource paramSource, RowMapper<T> rowMapper)
    throws DataAccessException {
```

```
List<T> results = getJdbcOperations().query(getPreparedStatementCreator(sql, paramSource), rowMapper);
return DataAccessUtils.requiredSingleResult(results);
}
```

```
@Override
```

```
public <T> T queryForObject(String sql, Map<String, ?> paramMap, RowMapper<T> rowMapper)
    throws DataAccessException {
```

```
return queryForObject(sql, new MapSqlParameterSource(paramMap), rowMapper);
}
```

```
@Override
```

```
public <T> T queryForObject(String sql, SqlParameterSource paramSource, Class<T> requiredType)
    throws DataAccessException {
```

```
return queryForObject(sql, paramSource, new SingleColumnRowMapper<T>(requiredType));
}
```

```
@Override
```

```
public <T> T queryForObject(String sql, Map<String, ?> paramMap, Class<T> requiredType)
    throws DataAccessException {
```

```
return queryForObject(sql, paramMap, new SingleColumnRowMapper<T>(requiredType));
}
```

```
@Override
```

```
public Map<String, Object> queryForMap(String sql, SqlParameterSource paramSource) throws
DataAccessException {
```

```
return queryForObject(sql, paramSource, new ColumnMapRowMapper());
}
```

```
@Override
```

```
public Map<String, Object> queryForMap(String sql, Map<String, ?> paramMap) throws DataAccessException {
    return queryForObject(sql, paramMap, new ColumnMapRowMapper());
}
```

```

@Override
@Deprecated
public long queryForLong(String sql, SqlParameterSource paramSource) throws DataAccessException {
    Number number = queryForObject(sql, paramSource, Long.class);
    return (number != null ? number.longValue() : 0);
}

```

```

@Override
@Deprecated
public long queryForLong(String sql, Map<String, ?> paramMap) throws DataAccessException {
    return queryForLong(sql, new MapSqlParameterSource(paramMap));
}

```

```

@Override
@Deprecated
public int queryForInt(String sql, SqlParameterSource paramSource) throws DataAccessException {
    Number number = queryForObject(sql, paramSource, Integer.class);
    return (number != null ? number.intValue() : 0);
}

```

```

@Override
@Deprecated
public int queryForInt(String sql, Map<String, ?> paramMap) throws DataAccessException {
    return queryForInt(sql, new MapSqlParameterSource(paramMap));
}

```

```

@Override
public <T> List<T> queryForList(String sql, SqlParameterSource paramSource, Class<T> elementType)
    throws DataAccessException {

    return query(sql, paramSource, new SingleColumnRowMapper<T>(elementType));
}

```

```

@Override
public <T> List<T> queryForList(String sql, Map<String, ?> paramMap, Class<T> elementType)
    throws DataAccessException {

    return queryForList(sql, new MapSqlParameterSource(paramMap), elementType);
}

```

```

@Override
public List<Map<String, Object>> queryForList(String sql, SqlParameterSource paramSource)
    throws DataAccessException {

    return query(sql, paramSource, new ColumnMapRowMapper());
}

```

```

@Override
public List<Map<String, Object>> queryForList(String sql, Map<String, ?> paramMap)
    throws DataAccessException {

    return queryForList(sql, new MapSqlParameterSource(paramMap));
}

@Override
public SqlRowSet queryForRowSet(String sql, SqlParameterSource paramSource) throws DataAccessException {
    return getJdbcOperations().query(
        getPreparedStatementCreator(sql, paramSource), new SqlRowSetResultSetExtractor());
}

@Override
public SqlRowSet queryForRowSet(String sql, Map<String, ?> paramMap) throws DataAccessException {
    return queryForRowSet(sql, new MapSqlParameterSource(paramMap));
}

@Override
public int update(String sql, SqlParameterSource paramSource) throws DataAccessException {
    return getJdbcOperations().update(getPreparedStatementCreator(sql, paramSource));
}

@Override
public int update(String sql, Map<String, ?> paramMap) throws DataAccessException {
    return update(sql, new MapSqlParameterSource(paramMap));
}

@Override
public int update(String sql, SqlParameterSource paramSource, KeyHolder generatedKeyHolder)
    throws DataAccessException {

    return update(sql, paramSource, generatedKeyHolder, null);
}

@Override
public int update(
    String sql, SqlParameterSource paramSource, KeyHolder generatedKeyHolder, String[] keyColumnNames)
    throws DataAccessException {

    ParsedSql parsedSql = getParsedSql(sql);
    String sqlToUse = NamedParameterUtils.substituteNamedParameters(parsedSql, paramSource);
    Object[] params = NamedParameterUtils.buildValueArray(parsedSql, paramSource, null);
    List<SqlParameter> declaredParameters = NamedParameterUtils.buildSqlParameterList(parsedSql, paramSource);
    PreparedStatementCreatorFactory pscf = new PreparedStatementCreatorFactory(sqlToUse, declaredParameters);
    if (keyColumnNames != null) {
        pscf.setGeneratedKeysColumnNames(keyColumnNames);
    }
}

```

```

else {
    pscf.setReturnGeneratedKeys(true);
}
return getJdbcOperations().update(pscf.newPreparedStatementCreator(params), generatedKeyHolder);
}

@Override
public int[] batchUpdate(String sql, Map<String, ?>[] batchValues) {
    SqlParameterSource[] batchArgs = new SqlParameterSource[batchValues.length];
    int i = 0;
    for (Map<String, ?> values : batchValues) {
        batchArgs[i] = new MapSqlParameterSource(values);
        i++;
    }
    return batchUpdate(sql, batchArgs);
}

@Override
public int[] batchUpdate(String sql, SqlParameterSource[] batchArgs) {
    ParsedSql parsedSql = this.getParsedSql(sql);
    return NamedParameterBatchUpdateUtils.executeBatchUpdateWithNamedParameters(parsedSql, batchArgs,
getJdbcOperations());
}

/**
 * Build a PreparedStatementCreator based on the given SQL and named parameters.
 * <p>Note: Not used for the { @code update } variant with generated key handling.
 * @param sql SQL to execute
 * @param paramSource container of arguments to bind
 * @return the corresponding PreparedStatementCreator
 */
protected PreparedStatementCreator getPreparedStatementCreator(String sql, SqlParameterSource paramSource) {
    ParsedSql parsedSql = getParsedSql(sql);
    String sqlToUse = NamedParameterUtils.substituteNamedParameters(parsedSql, paramSource);
    Object[] params = NamedParameterUtils.buildValueArray(parsedSql, paramSource, null);
    List<SqlParameter> declaredParameters = NamedParameterUtils.buildSqlParameterList(parsedSql, paramSource);
    PreparedStatementCreatorFactory pscf = new PreparedStatementCreatorFactory(sqlToUse, declaredParameters);
    return pscf.newPreparedStatementCreator(params);
}

/**
 * Obtain a parsed representation of the given SQL statement.
 * <p>The default implementation uses an LRU cache with an upper limit
 * of 256 entries.
 * @param sql the original SQL
 * @return a representation of the parsed SQL statement
 */
protected ParsedSql getParsedSql(String sql) {

```

```

if (getCacheLimit() <= 0) {
    return NamedParameterUtils.parseSqlStatement(sql);
}
synchronized (this.parsedSqlCache) {
    ParsedSql parsedSql = this.parsedSqlCache.get(sql);
    if (parsedSql == null) {
        parsedSql = NamedParameterUtils.parseSqlStatement(sql);
        this.parsedSqlCache.put(sql, parsedSql);
    }
    return parsedSql;
}
}
}
/*
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 * limitations under the License.
 */

package org.springframework.jdbc.support.xml;

import org.springframework.dao.InvalidDataAccessApiUsageException;

/**
 * Exception thrown when the underlying implementation does not support the
 * requested feature of the API.
 *
 * @author Thomas Risberg
 * @since 2.5.5
 */
@SuppressWarnings("serial")
public class SqlXmlFeatureNotImplementedException extends InvalidDataAccessApiUsageException {

    /**
     * Constructor for SqlXmlFeatureNotImplementedException.
     * @param msg the detail message
     */

```

```

public SqlXmlFeatureNotImplementedException(String msg) {
    super(msg);
}

/**
 * Constructor for SqlXmlFeatureNotImplementedException.
 * @param msg the detail message
 * @param cause the root cause from the data access API in use
 */
public SqlXmlFeatureNotImplementedException(String msg, Throwable cause) {
    super(msg, cause);
}
}
}
/**
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 * limitations under the License.
 */

package org.springframework.jdbc.support.nativejdbc;

/**
 * Simple implementation of the { @link NativeJdbcExtractor } interface.
 * Assumes a pool that wraps Connection handles but not DatabaseMetaData:
 * In this case, the underlying native Connection can be retrieved by simply
 * calling { @code conHandle.getMetaData().getConnection() }.
 * All other JDBC objects will be returned as passed in.
 *
 * <p>This extractor should work with any pool that does not wrap DatabaseMetaData,
 * and will also work with any plain JDBC driver. Note that a pool can still wrap
 * Statements, PreparedStatements, etc: The only requirement of this extractor is
 * that { @code java.sql.DatabaseMetaData } does not get wrapped, returning the
 * native Connection of the JDBC driver on { @code metaData.getConnection() }.
 *
 * <p>Customize this extractor by setting the "nativeConnectionNecessaryForXxx"
 * flags accordingly: If Statements, PreparedStatements, and/or CallableStatements
 * are wrapped by your pool, set the corresponding "nativeConnectionNecessaryForXxx"
 * flags to "true". If none of the statement types is wrapped - or you solely need

```

```

* Connection unwrapping in the first place -, the defaults are fine.
*
* <p>SimpleNativeJdbcExtractor is a common choice for use with OracleLobHandler,
* which just needs Connection unwrapping via the
* { @link #getNativeConnectionFromStatement } method. This usage will work
* with almost any connection pool.
*
* <p>For full usage with JdbcTemplate, i.e. to also provide Statement unwrapping:
* <ul>
* <li>Use a default SimpleNativeJdbcExtractor for Resin and SJSAS (no JDBC
* Statement objects are wrapped, therefore no special unwrapping is necessary).
* <li>Use a SimpleNativeJdbcExtractor with all "nativeConnectionNecessaryForXxx"
* flags set to "true" for C3P0 (all JDBC Statement objects are wrapped,
* but none of the wrappers allow for unwrapping).
* <li>Use a CommonsDbcNativeJdbcExtractor for Jakarta Commons DBCP respectively
* a JBossNativeJdbcExtractor for JBoss (all JDBC Statement objects are wrapped,
* but all of them can be extracted by casting to implementation classes).
* </ul>
*
* @author Juergen Hoeller
* @since 05.12.2003
* @see #setNativeConnectionNecessaryForNativeStatements
* @see #setNativeConnectionNecessaryForNativePreparedStatements
* @see #setNativeConnectionNecessaryForNativeCallableStatements
* @see Jdbc4NativeJdbcExtractor
* @see org.springframework.jdbc.core.JdbcTemplate#setNativeJdbcExtractor
* @see org.springframework.jdbc.support.lob.OracleLobHandler#setNativeJdbcExtractor
*/
public class SimpleNativeJdbcExtractor extends NativeJdbcExtractorAdapter {

    private boolean nativeConnectionNecessaryForNativeStatements = false;

    private boolean nativeConnectionNecessaryForNativePreparedStatements = false;

    private boolean nativeConnectionNecessaryForNativeCallableStatements = false;

    /**
     * Set whether it is necessary to work on the native Connection to
     * receive native Statements. Default is "false". If true, the Connection
     * will be unwrapped first to create a Statement.
     * <p>This makes sense if you need to work with native Statements from
     * a pool that does not allow to extract the native JDBC objects from its
     * wrappers but returns the native Connection on DatabaseMetaData.getConnection.
     * <p>The standard SimpleNativeJdbcExtractor is unable to unwrap statements,
     * so set this to true if your connection pool wraps Statements.
     * @see java.sql.Connection#createStatement
     * @see java.sql.DatabaseMetaData#getConnection

```

```

*/
public void setNativeConnectionNecessaryForNativeStatements(boolean
nativeConnectionNecessaryForNativeStatements) {
    this.nativeConnectionNecessaryForNativeStatements = nativeConnectionNecessaryForNativeStatements;
}

@Override
public boolean isNativeConnectionNecessaryForNativeStatements() {
    return this.nativeConnectionNecessaryForNativeStatements;
}

/**
 * Set whether it is necessary to work on the native Connection to
 * receive native PreparedStatements. Default is "false". If true,
 * the Connection will be unwrapped first to create a PreparedStatement.
 * <p>This makes sense if you need to work with native PreparedStatements from
 * a pool that does not allow to extract the native JDBC objects from its
 * wrappers but returns the native Connection on Statement.getConnection.
 * <p>The standard SimpleNativeJdbcExtractor is unable to unwrap statements,
 * so set this to true if your connection pool wraps PreparedStatements.
 * @see java.sql.Connection#prepareStatement
 * @see java.sql.DatabaseMetaData#getConnection
 */
public void setNativeConnectionNecessaryForNativePreparedStatements(boolean nativeConnectionNecessary) {
    this.nativeConnectionNecessaryForNativePreparedStatements = nativeConnectionNecessary;
}

@Override
public boolean isNativeConnectionNecessaryForNativePreparedStatements() {
    return this.nativeConnectionNecessaryForNativePreparedStatements;
}

/**
 * Set whether it is necessary to work on the native Connection to
 * receive native CallableStatements. Default is "false". If true,
 * the Connection will be unwrapped first to create a CallableStatement.
 * <p>This makes sense if you need to work with native CallableStatements from
 * a pool that does not allow to extract the native JDBC objects from its
 * wrappers but returns the native Connection on Statement.getConnection.
 * <p>The standard SimpleNativeJdbcExtractor is unable to unwrap statements,
 * so set this to true if your connection pool wraps CallableStatements.
 * @see java.sql.Connection#prepareCall
 * @see java.sql.DatabaseMetaData#getConnection
 */
public void setNativeConnectionNecessaryForNativeCallableStatements(boolean nativeConnectionNecessary) {
    this.nativeConnectionNecessaryForNativeCallableStatements = nativeConnectionNecessary;
}

```



```

@Override
public boolean isNativeConnectionNecessaryForNativeCallableStatements() {
    return this.nativeConnectionNecessaryForNativeCallableStatements;
}

}
/*
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 * distributed under the License is distributed on an "AS IS" BASIS,
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 * limitations under the License.
 */

package org.springframework.jdbc.datasource;

import java.sql.Connection;

import org.springframework.util.Assert;

/**
 * Simple implementation of the {@link ConnectionHandle} interface,
 * containing a given JDBC Connection.
 *
 * @author Juergen Hoeller
 * @since 1.1
 */
public class SimpleConnectionHandle implements ConnectionHandle {

    private final Connection connection;

    /**
     * Create a new SimpleConnectionHandle for the given Connection.
     * @param connection the JDBC Connection
     */
    public SimpleConnectionHandle(Connection connection) {
        Assert.notNull(connection, "Connection must not be null");
        this.connection = connection;
    }
}

```

```

/**
 * Return the specified Connection as-is.
 */
@Override
public Connection getConnection() {
    return this.connection;
}

/**
 * This implementation is empty, as we're using a standard
 * Connection handle that does not have to be released.
 */
@Override
public void releaseConnection(Connection con) {
}

@Override
public String toString() {
    return "SimpleConnectionHandle: " + this.connection;
}
}
/*
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 */

package org.springframework.jdbc.datasource.embedded;

import java.sql.Driver;

import javax.sql.DataSource;

import org.springframework.jdbc.datasource.SimpleDriverDataSource;

```

```

/**
 * Creates a {@link SimpleDriverDataSource}.
 *
 * @author Keith Donald
 * @author Juergen Hoeller
 * @since 3.0
 */
final class SimpleDriverDataSourceFactory implements DataSourceFactory {

    private final SimpleDriverDataSource dataSource = new SimpleDriverDataSource();

    @Override
    public ConnectionProperties getConnectionProperties() {
        return new ConnectionProperties() {
            @Override
            public void setDriverClass(Class<? extends Driver> driverClass) {
                dataSource.setDriverClass(driverClass);
            }

            @Override
            public void setUrl(String url) {
                dataSource.setUrl(url);
            }

            @Override
            public void setUsername(String username) {
                dataSource.setUsername(username);
            }

            @Override
            public void setPassword(String password) {
                dataSource.setPassword(password);
            }
        };
    }

    @Override
    public DataSource getDataSource() {
        return this.dataSource;
    }

}
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*/

```

```
package org.springframework.jdbc.datasource;
```

```
import java.sql.Connection;
import java.sql.Driver;
import java.sql.SQLException;
import java.util.Properties;
```

```
import org.springframework.beans.BeanUtils;
import org.springframework.util.Assert;
```

```
/**
```

```

* Simple implementation of the standard JDBC {@link javax.sql.DataSource} interface,
* configuring a plain old JDBC {@link java.sql.Driver} via bean properties, and returning
* a new {@link java.sql.Connection} from every {@code getConnection} call.
*

```

```

* <p><b>NOTE: This class is not an actual connection pool; it does not actually
* pool Connections.</b> It just serves as simple replacement for a full-blown
* connection pool, implementing the same standard interface, but creating new
* Connections on every call.
*

```

```

* <p>In a J2EE container, it is recommended to use a JNDI DataSource provided by
* the container. Such a DataSource can be exposed as a DataSource bean in a Spring
* ApplicationContext via {@link org.springframework.jndi.JndiObjectFactoryBean},
* for seamless switching to and from a local DataSource bean like this class.
*

```

```

* <p>If you need a "real" connection pool outside of a J2EE container, consider
* <a href="http://jakarta.apache.org/commons/dbcp">Apache's Jakarta Commons DBCP</a>
* or <a href="http://sourceforge.net/projects/c3p0">C3P0</a>.
* Commons DBCP's BasicDataSource and C3P0's ComboPooledDataSource are full
* connection pool beans, supporting the same basic properties as this class
* plus specific settings (such as minimal/maximal pool size etc).
*

```

```

* @author Juergen Hoeller
* @since 2.5.5
* @see DriverManagerDataSource
*/

```

```
public class SimpleDriverDataSource extends AbstractDriverBasedDataSource {
```

```

private Driver driver;

/**
 * Constructor for bean-style configuration.
 */
public SimpleDriverDataSource() {
}

/**
 * Create a new DriverManagerDataSource with the given standard Driver parameters.
 * @param driver the JDBC Driver object
 * @param url the JDBC URL to use for accessing the DriverManager
 * @see java.sql.Driver#connect(String, java.util.Properties)
 */
public SimpleDriverDataSource(Driver driver, String url) {
    setDriver(driver);
    setUrl(url);
}

/**
 * Create a new DriverManagerDataSource with the given standard Driver parameters.
 * @param driver the JDBC Driver object
 * @param url the JDBC URL to use for accessing the DriverManager
 * @param username the JDBC username to use for accessing the DriverManager
 * @param password the JDBC password to use for accessing the DriverManager
 * @see java.sql.Driver#connect(String, java.util.Properties)
 */
public SimpleDriverDataSource(Driver driver, String url, String username, String password) {
    setDriver(driver);
    setUrl(url);
    setUsername(username);
    setPassword(password);
}

/**
 * Create a new DriverManagerDataSource with the given standard Driver parameters.
 * @param driver the JDBC Driver object
 * @param url the JDBC URL to use for accessing the DriverManager
 * @param conProps JDBC connection properties
 * @see java.sql.Driver#connect(String, java.util.Properties)
 */
public SimpleDriverDataSource(Driver driver, String url, Properties conProps) {
    setDriver(driver);
    setUrl(url);
    setConnectionProperties(conProps);
}

```

```

/**
 * Specify the JDBC Driver implementation class to use.
 * <p>An instance of this Driver class will be created and held
 * within the SimpleDriverDataSource.
 * @see #setDriver
 */
public void setDriverClass(Class<? extends Driver> driverClass) {
    this.driver = BeanUtils.instantiateClass(driverClass);
}

/**
 * Specify the JDBC Driver instance to use.
 * <p>This allows for passing in a shared, possibly pre-configured
 * Driver instance.
 * @see #setDriverClass
 */
public void setDriver(Driver driver) {
    this.driver = driver;
}

/**
 * Return the JDBC Driver instance to use.
 */
public Driver getDriver() {
    return this.driver;
}

@Override
protected Connection getConnectionFromDriver(Properties props) throws SQLException {
    Driver driver = getDriver();
    String url = getUrl();
    Assert.notNull(driver, "Driver must not be null");
    if (logger.isDebugEnabled()) {
        logger.debug("Creating new JDBC Driver Connection to [" + url + "]");
    }
    return driver.connect(url, props);
}
}

```

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1.252 spring-tx 4.2.4.RELEASE

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1.259 tomcat-jdbc 7.0.19

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1.260 tomcat-juli 8.0.28

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1.261 upm-housekeeping 5.78.2-117

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1.265 XStream Core 1.4.2

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