| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Wrapper.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/sql/Types.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?java/sql/Wrapper.html)    [**NO FRAMES**](http://docs.google.com/Wrapper.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

## **java.sql**

Interface Wrapper

**All Known Subinterfaces:** [CachedRowSet](http://docs.google.com/javax/sql/rowset/CachedRowSet.html), [CallableStatement](http://docs.google.com/java/sql/CallableStatement.html), [Connection](http://docs.google.com/java/sql/Connection.html), [DatabaseMetaData](http://docs.google.com/java/sql/DatabaseMetaData.html), [DataSource](http://docs.google.com/javax/sql/DataSource.html), [FilteredRowSet](http://docs.google.com/javax/sql/rowset/FilteredRowSet.html), [JdbcRowSet](http://docs.google.com/javax/sql/rowset/JdbcRowSet.html), [JoinRowSet](http://docs.google.com/javax/sql/rowset/JoinRowSet.html), [ParameterMetaData](http://docs.google.com/java/sql/ParameterMetaData.html), [PreparedStatement](http://docs.google.com/java/sql/PreparedStatement.html), [ResultSet](http://docs.google.com/java/sql/ResultSet.html), [ResultSetMetaData](http://docs.google.com/java/sql/ResultSetMetaData.html), [RowSet](http://docs.google.com/javax/sql/RowSet.html), [RowSetMetaData](http://docs.google.com/javax/sql/RowSetMetaData.html), [Statement](http://docs.google.com/java/sql/Statement.html), [SyncResolver](http://docs.google.com/javax/sql/rowset/spi/SyncResolver.html), [WebRowSet](http://docs.google.com/javax/sql/rowset/WebRowSet.html) **All Known Implementing Classes:** [RowSetMetaDataImpl](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html)

public interface **Wrapper**

Interface for JDBC classes which provide the ability to retrieve the delegate instance when the instance in question is in fact a proxy class.

The wrapper pattern is employed by many JDBC driver implementations to provide extensions beyond the traditional JDBC API that are specific to a data source. Developers may wish to gain access to these resources that are wrapped (the delegates) as proxy class instances representing the the actual resources. This interface describes a standard mechanism to access these wrapped resources represented by their proxy, to permit direct access to the resource delegates.

**Since:** 1.6

| **Method Summary** | |
| --- | --- |
| boolean | [**isWrapperFor**](http://docs.google.com/java/sql/Wrapper.html#isWrapperFor(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html)<?> iface)            Returns true if this either implements the interface argument or is directly or indirectly a wrapper for an object that does. |
| | <T> T | | --- | | [**unwrap**](http://docs.google.com/java/sql/Wrapper.html#unwrap(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html)<T> iface)            Returns an object that implements the given interface to allow access to non-standard methods, or standard methods not exposed by the proxy. |

| **Method Detail** |
| --- |

### unwrap

<T> T **unwrap**([Class](http://docs.google.com/java/lang/Class.html)<T> iface)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Returns an object that implements the given interface to allow access to non-standard methods, or standard methods not exposed by the proxy. If the receiver implements the interface then the result is the receiver or a proxy for the receiver. If the receiver is a wrapper and the wrapped object implements the interface then the result is the wrapped object or a proxy for the wrapped object. Otherwise return the the result of calling unwrap recursively on the wrapped object or a proxy for that result. If the receiver is not a wrapper and does not implement the interface, then an SQLException is thrown.

**Parameters:**iface - A Class defining an interface that the result must implement. **Returns:**an object that implements the interface. May be a proxy for the actual implementing object. **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - If no object found that implements the interface**Since:** 1.6

### isWrapperFor

boolean **isWrapperFor**([Class](http://docs.google.com/java/lang/Class.html)<?> iface)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Returns true if this either implements the interface argument or is directly or indirectly a wrapper for an object that does. Returns false otherwise. If this implements the interface then return true, else if this is a wrapper then return the result of recursively calling isWrapperFor on the wrapped object. If this does not implement the interface and is not a wrapper, return false. This method should be implemented as a low-cost operation compared to unwrap so that callers can use this method to avoid expensive unwrap calls that may fail. If this method returns true then calling unwrap with the same argument should succeed.

**Parameters:**iface - a Class defining an interface. **Returns:**true if this implements the interface or directly or indirectly wraps an object that does. **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if an error occurs while determining whether this is a wrapper for an object with the given interface.**Since:** 1.6

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Wrapper.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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