| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/sql/Ref.html) | **Use** | [**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   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/sql//class-useRef.html)    [**NO FRAMES**](http://docs.google.com/Ref.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Interface**

**java.sql.Ref**

| Packages that use [Ref](http://docs.google.com/java/sql/Ref.html) | |
| --- | --- |
| [**java.sql**](#3znysh7) | Provides the API for accessing and processing data stored in a data source (usually a relational database) using the JavaTM programming language. |
| [**javax.sql**](#2et92p0) | Provides the API for server side data source access and processing from the JavaTM programming language. |
| [**javax.sql.rowset**](#tyjcwt) | Standard interfaces and base classes for JDBC RowSet implementations. |
| [**javax.sql.rowset.serial**](#3dy6vkm) | Provides utility classes to allow serializable mappings between SQL types and data types in the Java programming language. |

| Uses of [Ref](http://docs.google.com/java/sql/Ref.html) in [java.sql](http://docs.google.com/java/sql/package-summary.html) | |
| --- | --- |

| Methods in [java.sql](http://docs.google.com/java/sql/package-summary.html) that return [Ref](http://docs.google.com/java/sql/Ref.html) | |
| --- | --- |
| [Ref](http://docs.google.com/java/sql/Ref.html) | **CallableStatement.**[**getRef**](http://docs.google.com/java/sql/CallableStatement.html#getRef(int))(int parameterIndex)            Retrieves the value of the designated JDBC REF(<structured-type>) parameter as a [Ref](http://docs.google.com/java/sql/Ref.html) object in the Java programming language. |
| [Ref](http://docs.google.com/java/sql/Ref.html) | **ResultSet.**[**getRef**](http://docs.google.com/java/sql/ResultSet.html#getRef(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a Ref object in the Java programming language. |
| [Ref](http://docs.google.com/java/sql/Ref.html) | **CallableStatement.**[**getRef**](http://docs.google.com/java/sql/CallableStatement.html#getRef(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC REF(<structured-type>) parameter as a [Ref](http://docs.google.com/java/sql/Ref.html) object in the Java programming language. |
| [Ref](http://docs.google.com/java/sql/Ref.html) | **ResultSet.**[**getRef**](http://docs.google.com/java/sql/ResultSet.html#getRef(java.lang.String))([String](http://docs.google.com/java/lang/String.html) columnLabel)            Retrieves the value of the designated column in the current row of this ResultSet object as a Ref object in the Java programming language. |
| [Ref](http://docs.google.com/java/sql/Ref.html) | **SQLInput.**[**readRef**](http://docs.google.com/java/sql/SQLInput.html#readRef())()            Reads an SQL REF value from the stream and returns it as a Ref object in the Java programming language. |

| Methods in [java.sql](http://docs.google.com/java/sql/package-summary.html) with parameters of type [Ref](http://docs.google.com/java/sql/Ref.html) | |
| --- | --- |
| void | **PreparedStatement.**[**setRef**](http://docs.google.com/java/sql/PreparedStatement.html#setRef(int,%20java.sql.Ref))(int parameterIndex, [Ref](http://docs.google.com/java/sql/Ref.html) x)            Sets the designated parameter to the given REF(<structured-type>) value. |
| void | **ResultSet.**[**updateRef**](http://docs.google.com/java/sql/ResultSet.html#updateRef(int,%20java.sql.Ref))(int columnIndex, [Ref](http://docs.google.com/java/sql/Ref.html) x)            Updates the designated column with a java.sql.Ref value. |
| void | **ResultSet.**[**updateRef**](http://docs.google.com/java/sql/ResultSet.html#updateRef(java.lang.String,%20java.sql.Ref))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Ref](http://docs.google.com/java/sql/Ref.html) x)            Updates the designated column with a java.sql.Ref value. |
| void | **SQLOutput.**[**writeRef**](http://docs.google.com/java/sql/SQLOutput.html#writeRef(java.sql.Ref))([Ref](http://docs.google.com/java/sql/Ref.html) x)            Writes an SQL REF value to the stream. |

| Uses of [Ref](http://docs.google.com/java/sql/Ref.html) in [javax.sql](http://docs.google.com/javax/sql/package-summary.html) | |
| --- | --- |

| Methods in [javax.sql](http://docs.google.com/javax/sql/package-summary.html) with parameters of type [Ref](http://docs.google.com/java/sql/Ref.html) | |
| --- | --- |
| void | **RowSet.**[**setRef**](http://docs.google.com/javax/sql/RowSet.html#setRef(int,%20java.sql.Ref))(int i, [Ref](http://docs.google.com/java/sql/Ref.html) x)            Sets the designated parameter in this RowSet object's command with the given Ref value. |

| Uses of [Ref](http://docs.google.com/java/sql/Ref.html) in [javax.sql.rowset](http://docs.google.com/javax/sql/rowset/package-summary.html) | |
| --- | --- |

| Methods in [javax.sql.rowset](http://docs.google.com/javax/sql/rowset/package-summary.html) with parameters of type [Ref](http://docs.google.com/java/sql/Ref.html) | |
| --- | --- |
| void | **BaseRowSet.**[**setRef**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setRef(int,%20java.sql.Ref))(int parameterIndex, [Ref](http://docs.google.com/java/sql/Ref.html) ref)            Sets the designated parameter to the given Ref object in the Java programming language. |

| Uses of [Ref](http://docs.google.com/java/sql/Ref.html) in [javax.sql.rowset.serial](http://docs.google.com/javax/sql/rowset/serial/package-summary.html) | |
| --- | --- |

| Classes in [javax.sql.rowset.serial](http://docs.google.com/javax/sql/rowset/serial/package-summary.html) that implement [Ref](http://docs.google.com/java/sql/Ref.html) | |
| --- | --- |
| class | [**SerialRef**](http://docs.google.com/javax/sql/rowset/serial/SerialRef.html)            A serialized mapping of a Ref object, which is the mapping in the Java programming language of an SQL REF value. |

| Methods in [javax.sql.rowset.serial](http://docs.google.com/javax/sql/rowset/serial/package-summary.html) that return [Ref](http://docs.google.com/java/sql/Ref.html) | |
| --- | --- |
| [Ref](http://docs.google.com/java/sql/Ref.html) | **SQLInputImpl.**[**readRef**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readRef())()            Retrieves the value at the head of this SQLInputImpl object as a Ref object in the Java programming language. |

| Methods in [javax.sql.rowset.serial](http://docs.google.com/javax/sql/rowset/serial/package-summary.html) with parameters of type [Ref](http://docs.google.com/java/sql/Ref.html) | |
| --- | --- |
| void | **SQLOutputImpl.**[**writeRef**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeRef(java.sql.Ref))([Ref](http://docs.google.com/java/sql/Ref.html) x)            Writes a Ref object in the Java programming language to this SQLOutputImpl object. |

| Constructors in [javax.sql.rowset.serial](http://docs.google.com/javax/sql/rowset/serial/package-summary.html) with parameters of type [Ref](http://docs.google.com/java/sql/Ref.html) | |
| --- | --- |
| [**SerialRef**](http://docs.google.com/javax/sql/rowset/serial/SerialRef.html#SerialRef(java.sql.Ref))([Ref](http://docs.google.com/java/sql/Ref.html) ref)            Constructs a SerialRef object from the given Ref object. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/sql/Ref.html) | **Use** | [**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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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/sql//class-useRef.html)    [**NO FRAMES**](http://docs.google.com/Ref.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

[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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