| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/SQLOutput.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/SQLNonTransientException.html)   [**NEXT CLASS**](http://docs.google.com/java/sql/SQLPermission.html) | [**FRAMES**](http://docs.google.com/index.html?java/sql/SQLOutput.html)    [**NO FRAMES**](http://docs.google.com/SQLOutput.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

## **java.sql**

Interface SQLOutput

**All Known Implementing Classes:** [SQLOutputImpl](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html)

public interface **SQLOutput**

The output stream for writing the attributes of a user-defined type back to the database. This interface, used only for custom mapping, is used by the driver, and its methods are never directly invoked by a programmer.

When an object of a class implementing the interface SQLData is passed as an argument to an SQL statement, the JDBC driver calls the method SQLData.getSQLType to determine the kind of SQL datum being passed to the database. The driver then creates an instance of SQLOutput and passes it to the method SQLData.writeSQL. The method writeSQL in turn calls the appropriate SQLOutput *writer* methods writeBoolean, writeCharacterStream, and so on) to write data from the SQLData object to the SQLOutput output stream as the representation of an SQL user-defined type.

**Since:** 1.2

| **Method Summary** | |
| --- | --- |
| void | [**writeArray**](http://docs.google.com/java/sql/SQLOutput.html#writeArray(java.sql.Array))([Array](http://docs.google.com/java/sql/Array.html) x)            Writes an SQL ARRAY value to the stream. |
| void | [**writeAsciiStream**](http://docs.google.com/java/sql/SQLOutput.html#writeAsciiStream(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) x)            Writes the next attribute to the stream as a stream of ASCII characters. |
| void | [**writeBigDecimal**](http://docs.google.com/java/sql/SQLOutput.html#writeBigDecimal(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Writes the next attribute to the stream as a java.math.BigDecimal object. |
| void | [**writeBinaryStream**](http://docs.google.com/java/sql/SQLOutput.html#writeBinaryStream(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) x)            Writes the next attribute to the stream as a stream of uninterpreted bytes. |
| void | [**writeBlob**](http://docs.google.com/java/sql/SQLOutput.html#writeBlob(java.sql.Blob))([Blob](http://docs.google.com/java/sql/Blob.html) x)            Writes an SQL BLOB value to the stream. |
| void | [**writeBoolean**](http://docs.google.com/java/sql/SQLOutput.html#writeBoolean(boolean))(boolean x)            Writes the next attribute to the stream as a Java boolean. |
| void | [**writeByte**](http://docs.google.com/java/sql/SQLOutput.html#writeByte(byte))(byte x)            Writes the next attribute to the stream as a Java byte. |
| void | [**writeBytes**](http://docs.google.com/java/sql/SQLOutput.html#writeBytes(byte%5B%5D))(byte[] x)            Writes the next attribute to the stream as an array of bytes. |
| void | [**writeCharacterStream**](http://docs.google.com/java/sql/SQLOutput.html#writeCharacterStream(java.io.Reader))([Reader](http://docs.google.com/java/io/Reader.html) x)            Writes the next attribute to the stream as a stream of Unicode characters. |
| void | [**writeClob**](http://docs.google.com/java/sql/SQLOutput.html#writeClob(java.sql.Clob))([Clob](http://docs.google.com/java/sql/Clob.html) x)            Writes an SQL CLOB value to the stream. |
| void | [**writeDate**](http://docs.google.com/java/sql/SQLOutput.html#writeDate(java.sql.Date))([Date](http://docs.google.com/java/sql/Date.html) x)            Writes the next attribute to the stream as a java.sql.Date object. |
| void | [**writeDouble**](http://docs.google.com/java/sql/SQLOutput.html#writeDouble(double))(double x)            Writes the next attribute to the stream as a Java double. |
| void | [**writeFloat**](http://docs.google.com/java/sql/SQLOutput.html#writeFloat(float))(float x)            Writes the next attribute to the stream as a Java float. |
| void | [**writeInt**](http://docs.google.com/java/sql/SQLOutput.html#writeInt(int))(int x)            Writes the next attribute to the stream as a Java int. |
| void | [**writeLong**](http://docs.google.com/java/sql/SQLOutput.html#writeLong(long))(long x)            Writes the next attribute to the stream as a Java long. |
| void | [**writeNClob**](http://docs.google.com/java/sql/SQLOutput.html#writeNClob(java.sql.NClob))([NClob](http://docs.google.com/java/sql/NClob.html) x)            Writes an SQL NCLOB value to the stream. |
| void | [**writeNString**](http://docs.google.com/java/sql/SQLOutput.html#writeNString(java.lang.String))([String](http://docs.google.com/java/lang/String.html) x)            Writes the next attribute to the stream as a String in the Java programming language. |
| void | [**writeObject**](http://docs.google.com/java/sql/SQLOutput.html#writeObject(java.sql.SQLData))([SQLData](http://docs.google.com/java/sql/SQLData.html) x)            Writes to the stream the data contained in the given SQLData object. |
| void | [**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. |
| void | [**writeRowId**](http://docs.google.com/java/sql/SQLOutput.html#writeRowId(java.sql.RowId))([RowId](http://docs.google.com/java/sql/RowId.html) x)            Writes an SQL ROWID value to the stream. |
| void | [**writeShort**](http://docs.google.com/java/sql/SQLOutput.html#writeShort(short))(short x)            Writes the next attribute to the stream as a Java short. |
| void | [**writeSQLXML**](http://docs.google.com/java/sql/SQLOutput.html#writeSQLXML(java.sql.SQLXML))([SQLXML](http://docs.google.com/java/sql/SQLXML.html) x)            Writes an SQL XML value to the stream. |
| void | [**writeString**](http://docs.google.com/java/sql/SQLOutput.html#writeString(java.lang.String))([String](http://docs.google.com/java/lang/String.html) x)            Writes the next attribute to the stream as a String in the Java programming language. |
| void | [**writeStruct**](http://docs.google.com/java/sql/SQLOutput.html#writeStruct(java.sql.Struct))([Struct](http://docs.google.com/java/sql/Struct.html) x)            Writes an SQL structured type value to the stream. |
| void | [**writeTime**](http://docs.google.com/java/sql/SQLOutput.html#writeTime(java.sql.Time))([Time](http://docs.google.com/java/sql/Time.html) x)            Writes the next attribute to the stream as a java.sql.Time object. |
| void | [**writeTimestamp**](http://docs.google.com/java/sql/SQLOutput.html#writeTimestamp(java.sql.Timestamp))([Timestamp](http://docs.google.com/java/sql/Timestamp.html) x)            Writes the next attribute to the stream as a java.sql.Timestamp object. |
| void | [**writeURL**](http://docs.google.com/java/sql/SQLOutput.html#writeURL(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) x)            Writes a SQL DATALINK value to the stream. |

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

### writeString

void **writeString**([String](http://docs.google.com/java/lang/String.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a String in the Java programming language.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeBoolean

void **writeBoolean**(boolean x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a Java boolean. Writes the next attribute to the stream as a String in the Java programming language.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeByte

void **writeByte**(byte x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a Java byte. Writes the next attribute to the stream as a String in the Java programming language.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeShort

void **writeShort**(short x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a Java short. Writes the next attribute to the stream as a String in the Java programming language.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeInt

void **writeInt**(int x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a Java int. Writes the next attribute to the stream as a String in the Java programming language.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeLong

void **writeLong**(long x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a Java long. Writes the next attribute to the stream as a String in the Java programming language.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeFloat

void **writeFloat**(float x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a Java float. Writes the next attribute to the stream as a String in the Java programming language.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeDouble

void **writeDouble**(double x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a Java double. Writes the next attribute to the stream as a String in the Java programming language.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeBigDecimal

void **writeBigDecimal**([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a java.math.BigDecimal object. Writes the next attribute to the stream as a String in the Java programming language.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeBytes

void **writeBytes**(byte[] x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as an array of bytes. Writes the next attribute to the stream as a String in the Java programming language.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeDate

void **writeDate**([Date](http://docs.google.com/java/sql/Date.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a java.sql.Date object. Writes the next attribute to the stream as a java.sql.Date object in the Java programming language.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeTime

void **writeTime**([Time](http://docs.google.com/java/sql/Time.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a java.sql.Time object. Writes the next attribute to the stream as a java.sql.Date object in the Java programming language.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeTimestamp

void **writeTimestamp**([Timestamp](http://docs.google.com/java/sql/Timestamp.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a java.sql.Timestamp object. Writes the next attribute to the stream as a java.sql.Date object in the Java programming language.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeCharacterStream

void **writeCharacterStream**([Reader](http://docs.google.com/java/io/Reader.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a stream of Unicode characters.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeAsciiStream

void **writeAsciiStream**([InputStream](http://docs.google.com/java/io/InputStream.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a stream of ASCII characters.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeBinaryStream

void **writeBinaryStream**([InputStream](http://docs.google.com/java/io/InputStream.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a stream of uninterpreted bytes.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeObject

void **writeObject**([SQLData](http://docs.google.com/java/sql/SQLData.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes to the stream the data contained in the given SQLData object. When the SQLData object is null, this method writes an SQL NULL to the stream. Otherwise, it calls the SQLData.writeSQL method of the given object, which writes the object's attributes to the stream. The implementation of the method SQLData.writeSQ calls the appropriate SQLOutput writer method(s) for writing each of the object's attributes in order. The attributes must be read from an SQLInput input stream and written to an SQLOutput output stream in the same order in which they were listed in the SQL definition of the user-defined type.

**Parameters:**x - the object representing data of an SQL structured or distinct type **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeRef

void **writeRef**([Ref](http://docs.google.com/java/sql/Ref.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes an SQL REF value to the stream.

**Parameters:**x - a Ref object representing data of an SQL REF value **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeBlob

void **writeBlob**([Blob](http://docs.google.com/java/sql/Blob.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes an SQL BLOB value to the stream.

**Parameters:**x - a Blob object representing data of an SQL BLOB value **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeClob

void **writeClob**([Clob](http://docs.google.com/java/sql/Clob.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes an SQL CLOB value to the stream.

**Parameters:**x - a Clob object representing data of an SQL CLOB value **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeStruct

void **writeStruct**([Struct](http://docs.google.com/java/sql/Struct.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes an SQL structured type value to the stream.

**Parameters:**x - a Struct object representing data of an SQL structured type **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeArray

void **writeArray**([Array](http://docs.google.com/java/sql/Array.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes an SQL ARRAY value to the stream.

**Parameters:**x - an Array object representing data of an SQL ARRAY type **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.2

### writeURL

void **writeURL**([URL](http://docs.google.com/java/net/URL.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes a SQL DATALINK value to the stream.

**Parameters:**x - a java.net.URL object representing the data of SQL DATALINK type **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.4

### writeNString

void **writeNString**([String](http://docs.google.com/java/lang/String.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes the next attribute to the stream as a String in the Java programming language. The driver converts this to a SQL NCHAR or NVARCHAR or LONGNVARCHAR value (depending on the argument's size relative to the driver's limits on NVARCHAR values) when it sends it to the stream.

**Parameters:**x - the value to pass to the database **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.6

### writeNClob

void **writeNClob**([NClob](http://docs.google.com/java/sql/NClob.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes an SQL NCLOB value to the stream.

**Parameters:**x - a NClob object representing data of an SQL NCLOB value **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.6

### writeRowId

void **writeRowId**([RowId](http://docs.google.com/java/sql/RowId.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes an SQL ROWID value to the stream.

**Parameters:**x - a RowId object representing data of an SQL ROWID value **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**Since:** 1.6

### writeSQLXML

void **writeSQLXML**([SQLXML](http://docs.google.com/java/sql/SQLXML.html) x)  
 throws [SQLException](http://docs.google.com/java/sql/SQLException.html)

Writes an SQL XML value to the stream.

**Parameters:**x - a SQLXML object representing data of an SQL XML value **Throws:** [SQLException](http://docs.google.com/java/sql/SQLException.html) - if a database access error occurs, the java.xml.transform.Result, Writer or OutputStream has not been closed for the SQLXML object or if there is an error processing the XML value. The getCause method of the exception may provide a more detailed exception, for example, if the stream does not contain valid XML. [SQLFeatureNotSupportedException](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html) - if the JDBC driver does not support this method**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/SQLOutput.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/SQLNonTransientException.html)   [**NEXT CLASS**](http://docs.google.com/java/sql/SQLPermission.html) | [**FRAMES**](http://docs.google.com/index.html?java/sql/SQLOutput.html)    [**NO FRAMES**](http://docs.google.com/SQLOutput.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| 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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