| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/sql/SQLException.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-useSQLException.html)    [**NO FRAMES**](http://docs.google.com/SQLException.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Class**

**java.sql.SQLException**

| Packages that use [SQLException](http://docs.google.com/java/sql/SQLException.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. |
| [**javax.sql.rowset.spi**](#1t3h5sf) | The standard classes and interfaces that a third party vendor has to use in its implementation of a synchronization provider. |

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

| Subclasses of [SQLException](http://docs.google.com/java/sql/SQLException.html) in [java.sql](http://docs.google.com/java/sql/package-summary.html) | |
| --- | --- |
| class | [**BatchUpdateException**](http://docs.google.com/java/sql/BatchUpdateException.html)            The subclass of [SQLException](http://docs.google.com/java/sql/SQLException.html) thrown when an error occurs during a batch update operation. |
| class | [**DataTruncation**](http://docs.google.com/java/sql/DataTruncation.html)            An exception thrown as a DataTruncation exception (on writes) or reported as a DataTruncation warning (on reads) when a data values is unexpectedly truncated for reasons other than its having execeeded MaxFieldSize. |
| class | [**SQLClientInfoException**](http://docs.google.com/java/sql/SQLClientInfoException.html)            The subclass of [SQLException](http://docs.google.com/java/sql/SQLException.html) is thrown when one or more client info properties could not be set on a Connection. |
| class | [**SQLDataException**](http://docs.google.com/java/sql/SQLDataException.html)            The subclass of [SQLException](http://docs.google.com/java/sql/SQLException.html) thrown when the SQLState class value is '*22*'. |
| class | [**SQLFeatureNotSupportedException**](http://docs.google.com/java/sql/SQLFeatureNotSupportedException.html)            The subclass of [SQLException](http://docs.google.com/java/sql/SQLException.html) thrown when the SQLState class value is '*0A*' ( the value is 'zero' A). |
| class | [**SQLIntegrityConstraintViolationException**](http://docs.google.com/java/sql/SQLIntegrityConstraintViolationException.html)            The subclass of [SQLException](http://docs.google.com/java/sql/SQLException.html) thrown when the SQLState class value is '*23*'. |
| class | [**SQLInvalidAuthorizationSpecException**](http://docs.google.com/java/sql/SQLInvalidAuthorizationSpecException.html)            The subclass of [SQLException](http://docs.google.com/java/sql/SQLException.html) thrown when the SQLState class value is '*28*'. |
| class | [**SQLNonTransientConnectionException**](http://docs.google.com/java/sql/SQLNonTransientConnectionException.html)             The subclass of [SQLException](http://docs.google.com/java/sql/SQLException.html) thrown for the SQLState class value '*08*', representing that the connection operation that failed will not succeed when the operation is retried without the cause of the failure being corrected. |
| class | [**SQLNonTransientException**](http://docs.google.com/java/sql/SQLNonTransientException.html)            The subclass of [SQLException](http://docs.google.com/java/sql/SQLException.html) thrown when an instance where a retry of the same operation would fail unless the cause of the SQLException is corrected. |
| class | [**SQLRecoverableException**](http://docs.google.com/java/sql/SQLRecoverableException.html)            The subclass of [SQLException](http://docs.google.com/java/sql/SQLException.html) thrown in situations where a previously failed operation might be able to succeed if the application performs some recovery steps and retries the entire transaction or in the case of a distributed transaction, the transaction branch. |
| class | [**SQLSyntaxErrorException**](http://docs.google.com/java/sql/SQLSyntaxErrorException.html)            The subclass of [SQLException](http://docs.google.com/java/sql/SQLException.html) thrown when the SQLState class value is '*42*'. |
| class | [**SQLTimeoutException**](http://docs.google.com/java/sql/SQLTimeoutException.html)            The subclass of [SQLException](http://docs.google.com/java/sql/SQLException.html) thrown when the timeout specified by Statement has expired. |
| class | [**SQLTransactionRollbackException**](http://docs.google.com/java/sql/SQLTransactionRollbackException.html)            The subclass of [SQLException](http://docs.google.com/java/sql/SQLException.html) thrown when the SQLState class value is '*40*'. |
| class | [**SQLTransientConnectionException**](http://docs.google.com/java/sql/SQLTransientConnectionException.html)            The subclass of [SQLException](http://docs.google.com/java/sql/SQLException.html) for the SQLState class value '*08*', representing that the connection operation that failed might be able to succeed when the operation is retried without any application-level changes. |
| class | [**SQLTransientException**](http://docs.google.com/java/sql/SQLTransientException.html)            The subclass of [SQLException](http://docs.google.com/java/sql/SQLException.html) is thrown in situations where a previoulsy failed operation might be able to succeed when the operation is retried without any intervention by application-level functionality. |
| class | [**SQLWarning**](http://docs.google.com/java/sql/SQLWarning.html)            An exception that provides information on database access warnings. |

| Methods in [java.sql](http://docs.google.com/java/sql/package-summary.html) that return [SQLException](http://docs.google.com/java/sql/SQLException.html) | |
| --- | --- |
| [SQLException](http://docs.google.com/java/sql/SQLException.html) | **SQLException.**[**getNextException**](http://docs.google.com/java/sql/SQLException.html#getNextException())()            Retrieves the exception chained to this SQLException object by setNextException(SQLException ex). |

| Methods in [java.sql](http://docs.google.com/java/sql/package-summary.html) with parameters of type [SQLException](http://docs.google.com/java/sql/SQLException.html) | |
| --- | --- |
| void | **SQLException.**[**setNextException**](http://docs.google.com/java/sql/SQLException.html#setNextException(java.sql.SQLException))([SQLException](http://docs.google.com/java/sql/SQLException.html) ex)            Adds an SQLException object to the end of the chain. |

| Methods in [java.sql](http://docs.google.com/java/sql/package-summary.html) that throw [SQLException](http://docs.google.com/java/sql/SQLException.html) | |
| --- | --- |
| boolean | **ResultSet.**[**absolute**](http://docs.google.com/java/sql/ResultSet.html#absolute(int))(int row)            Moves the cursor to the given row number in this ResultSet object. |
| boolean | **Driver.**[**acceptsURL**](http://docs.google.com/java/sql/Driver.html#acceptsURL(java.lang.String))([String](http://docs.google.com/java/lang/String.html) url)            Retrieves whether the driver thinks that it can open a connection to the given URL. |
| void | **PreparedStatement.**[**addBatch**](http://docs.google.com/java/sql/PreparedStatement.html#addBatch())()            Adds a set of parameters to this PreparedStatement object's batch of commands. |
| void | **Statement.**[**addBatch**](http://docs.google.com/java/sql/Statement.html#addBatch(java.lang.String))([String](http://docs.google.com/java/lang/String.html) sql)            Adds the given SQL command to the current list of commmands for this Statement object. |
| void | **ResultSet.**[**afterLast**](http://docs.google.com/java/sql/ResultSet.html#afterLast())()            Moves the cursor to the end of this ResultSet object, just after the last row. |
| boolean | **DatabaseMetaData.**[**allProceduresAreCallable**](http://docs.google.com/java/sql/DatabaseMetaData.html#allProceduresAreCallable())()            Retrieves whether the current user can call all the procedures returned by the method getProcedures. |
| boolean | **DatabaseMetaData.**[**allTablesAreSelectable**](http://docs.google.com/java/sql/DatabaseMetaData.html#allTablesAreSelectable())()            Retrieves whether the current user can use all the tables returned by the method getTables in a SELECT statement. |
| boolean | **DatabaseMetaData.**[**autoCommitFailureClosesAllResultSets**](http://docs.google.com/java/sql/DatabaseMetaData.html#autoCommitFailureClosesAllResultSets())()            Retrieves whether a SQLException while autoCommit is true inidcates that all open ResultSets are closed, even ones that are holdable. |
| void | **ResultSet.**[**beforeFirst**](http://docs.google.com/java/sql/ResultSet.html#beforeFirst())()            Moves the cursor to the front of this ResultSet object, just before the first row. |
| void | **Statement.**[**cancel**](http://docs.google.com/java/sql/Statement.html#cancel())()            Cancels this Statement object if both the DBMS and driver support aborting an SQL statement. |
| void | **ResultSet.**[**cancelRowUpdates**](http://docs.google.com/java/sql/ResultSet.html#cancelRowUpdates())()            Cancels the updates made to the current row in this ResultSet object. |
| void | **Statement.**[**clearBatch**](http://docs.google.com/java/sql/Statement.html#clearBatch())()            Empties this Statement object's current list of SQL commands. |
| void | **PreparedStatement.**[**clearParameters**](http://docs.google.com/java/sql/PreparedStatement.html#clearParameters())()            Clears the current parameter values immediately. |
| void | **Connection.**[**clearWarnings**](http://docs.google.com/java/sql/Connection.html#clearWarnings())()            Clears all warnings reported for this Connection object. |
| void | **Statement.**[**clearWarnings**](http://docs.google.com/java/sql/Statement.html#clearWarnings())()            Clears all the warnings reported on this Statement object. |
| void | **ResultSet.**[**clearWarnings**](http://docs.google.com/java/sql/ResultSet.html#clearWarnings())()            Clears all warnings reported on this ResultSet object. |
| void | **Connection.**[**close**](http://docs.google.com/java/sql/Connection.html#close())()            Releases this Connection object's database and JDBC resources immediately instead of waiting for them to be automatically released. |
| void | **Statement.**[**close**](http://docs.google.com/java/sql/Statement.html#close())()            Releases this Statement object's database and JDBC resources immediately instead of waiting for this to happen when it is automatically closed. |
| void | **ResultSet.**[**close**](http://docs.google.com/java/sql/ResultSet.html#close())()            Releases this ResultSet object's database and JDBC resources immediately instead of waiting for this to happen when it is automatically closed. |
| void | **Connection.**[**commit**](http://docs.google.com/java/sql/Connection.html#commit())()            Makes all changes made since the previous commit/rollback permanent and releases any database locks currently held by this Connection object. |
| [Connection](http://docs.google.com/java/sql/Connection.html) | **Driver.**[**connect**](http://docs.google.com/java/sql/Driver.html#connect(java.lang.String,%20java.util.Properties))([String](http://docs.google.com/java/lang/String.html) url, [Properties](http://docs.google.com/java/util/Properties.html) info)            Attempts to make a database connection to the given URL. |
| [Array](http://docs.google.com/java/sql/Array.html) | **Connection.**[**createArrayOf**](http://docs.google.com/java/sql/Connection.html#createArrayOf(java.lang.String,%20java.lang.Object%5B%5D))([String](http://docs.google.com/java/lang/String.html) typeName, [Object](http://docs.google.com/java/lang/Object.html)[] elements)            Factory method for creating Array objects. |
| [Blob](http://docs.google.com/java/sql/Blob.html) | **Connection.**[**createBlob**](http://docs.google.com/java/sql/Connection.html#createBlob())()            Constructs an object that implements the Blob interface. |
| [Clob](http://docs.google.com/java/sql/Clob.html) | **Connection.**[**createClob**](http://docs.google.com/java/sql/Connection.html#createClob())()            Constructs an object that implements the Clob interface. |
| [NClob](http://docs.google.com/java/sql/NClob.html) | **Connection.**[**createNClob**](http://docs.google.com/java/sql/Connection.html#createNClob())()            Constructs an object that implements the NClob interface. |
| [SQLXML](http://docs.google.com/java/sql/SQLXML.html) | **Connection.**[**createSQLXML**](http://docs.google.com/java/sql/Connection.html#createSQLXML())()            Constructs an object that implements the SQLXML interface. |
| [Statement](http://docs.google.com/java/sql/Statement.html) | **Connection.**[**createStatement**](http://docs.google.com/java/sql/Connection.html#createStatement())()            Creates a Statement object for sending SQL statements to the database. |
| [Statement](http://docs.google.com/java/sql/Statement.html) | **Connection.**[**createStatement**](http://docs.google.com/java/sql/Connection.html#createStatement(int,%20int))(int resultSetType, int resultSetConcurrency)            Creates a Statement object that will generate ResultSet objects with the given type and concurrency. |
| [Statement](http://docs.google.com/java/sql/Statement.html) | **Connection.**[**createStatement**](http://docs.google.com/java/sql/Connection.html#createStatement(int,%20int,%20int))(int resultSetType, int resultSetConcurrency, int resultSetHoldability)            Creates a Statement object that will generate ResultSet objects with the given type, concurrency, and holdability. |
| [Struct](http://docs.google.com/java/sql/Struct.html) | **Connection.**[**createStruct**](http://docs.google.com/java/sql/Connection.html#createStruct(java.lang.String,%20java.lang.Object%5B%5D))([String](http://docs.google.com/java/lang/String.html) typeName, [Object](http://docs.google.com/java/lang/Object.html)[] attributes)            Factory method for creating Struct objects. |
| boolean | **DatabaseMetaData.**[**dataDefinitionCausesTransactionCommit**](http://docs.google.com/java/sql/DatabaseMetaData.html#dataDefinitionCausesTransactionCommit())()            Retrieves whether a data definition statement within a transaction forces the transaction to commit. |
| boolean | **DatabaseMetaData.**[**dataDefinitionIgnoredInTransactions**](http://docs.google.com/java/sql/DatabaseMetaData.html#dataDefinitionIgnoredInTransactions())()            Retrieves whether this database ignores a data definition statement within a transaction. |
| void | **ResultSet.**[**deleteRow**](http://docs.google.com/java/sql/ResultSet.html#deleteRow())()            Deletes the current row from this ResultSet object and from the underlying database. |
| boolean | **DatabaseMetaData.**[**deletesAreDetected**](http://docs.google.com/java/sql/DatabaseMetaData.html#deletesAreDetected(int))(int type)            Retrieves whether or not a visible row delete can be detected by calling the method ResultSet.rowDeleted. |
| static void | **DriverManager.**[**deregisterDriver**](http://docs.google.com/java/sql/DriverManager.html#deregisterDriver(java.sql.Driver))([Driver](http://docs.google.com/java/sql/Driver.html) driver)            Drops a driver from the DriverManager's list. |
| boolean | **DatabaseMetaData.**[**doesMaxRowSizeIncludeBlobs**](http://docs.google.com/java/sql/DatabaseMetaData.html#doesMaxRowSizeIncludeBlobs())()            Retrieves whether the return value for the method getMaxRowSize includes the SQL data types LONGVARCHAR and LONGVARBINARY. |
| boolean | **PreparedStatement.**[**execute**](http://docs.google.com/java/sql/PreparedStatement.html#execute())()            Executes the SQL statement in this PreparedStatement object, which may be any kind of SQL statement. |
| boolean | **Statement.**[**execute**](http://docs.google.com/java/sql/Statement.html#execute(java.lang.String))([String](http://docs.google.com/java/lang/String.html) sql)            Executes the given SQL statement, which may return multiple results. |
| boolean | **Statement.**[**execute**](http://docs.google.com/java/sql/Statement.html#execute(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) sql, int autoGeneratedKeys)            Executes the given SQL statement, which may return multiple results, and signals the driver that any auto-generated keys should be made available for retrieval. |
| boolean | **Statement.**[**execute**](http://docs.google.com/java/sql/Statement.html#execute(java.lang.String,%20int%5B%5D))([String](http://docs.google.com/java/lang/String.html) sql, int[] columnIndexes)            Executes the given SQL statement, which may return multiple results, and signals the driver that the auto-generated keys indicated in the given array should be made available for retrieval. |
| boolean | **Statement.**[**execute**](http://docs.google.com/java/sql/Statement.html#execute(java.lang.String,%20java.lang.String%5B%5D))([String](http://docs.google.com/java/lang/String.html) sql, [String](http://docs.google.com/java/lang/String.html)[] columnNames)            Executes the given SQL statement, which may return multiple results, and signals the driver that the auto-generated keys indicated in the given array should be made available for retrieval. |
| int[] | **Statement.**[**executeBatch**](http://docs.google.com/java/sql/Statement.html#executeBatch())()            Submits a batch of commands to the database for execution and if all commands execute successfully, returns an array of update counts. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **PreparedStatement.**[**executeQuery**](http://docs.google.com/java/sql/PreparedStatement.html#executeQuery())()            Executes the SQL query in this PreparedStatement object and returns the ResultSet object generated by the query. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **Statement.**[**executeQuery**](http://docs.google.com/java/sql/Statement.html#executeQuery(java.lang.String))([String](http://docs.google.com/java/lang/String.html) sql)            Executes the given SQL statement, which returns a single ResultSet object. |
| int | **PreparedStatement.**[**executeUpdate**](http://docs.google.com/java/sql/PreparedStatement.html#executeUpdate())()            Executes the SQL statement in this PreparedStatement object, which must be an SQL Data Manipulation Language (DML) statement, such as INSERT, UPDATE or DELETE; or an SQL statement that returns nothing, such as a DDL statement. |
| int | **Statement.**[**executeUpdate**](http://docs.google.com/java/sql/Statement.html#executeUpdate(java.lang.String))([String](http://docs.google.com/java/lang/String.html) sql)            Executes the given SQL statement, which may be an INSERT, UPDATE, or DELETE statement or an SQL statement that returns nothing, such as an SQL DDL statement. |
| int | **Statement.**[**executeUpdate**](http://docs.google.com/java/sql/Statement.html#executeUpdate(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) sql, int autoGeneratedKeys)            Executes the given SQL statement and signals the driver with the given flag about whether the auto-generated keys produced by this Statement object should be made available for retrieval. |
| int | **Statement.**[**executeUpdate**](http://docs.google.com/java/sql/Statement.html#executeUpdate(java.lang.String,%20int%5B%5D))([String](http://docs.google.com/java/lang/String.html) sql, int[] columnIndexes)            Executes the given SQL statement and signals the driver that the auto-generated keys indicated in the given array should be made available for retrieval. |
| int | **Statement.**[**executeUpdate**](http://docs.google.com/java/sql/Statement.html#executeUpdate(java.lang.String,%20java.lang.String%5B%5D))([String](http://docs.google.com/java/lang/String.html) sql, [String](http://docs.google.com/java/lang/String.html)[] columnNames)            Executes the given SQL statement and signals the driver that the auto-generated keys indicated in the given array should be made available for retrieval. |
| int | **ResultSet.**[**findColumn**](http://docs.google.com/java/sql/ResultSet.html#findColumn(java.lang.String))([String](http://docs.google.com/java/lang/String.html) columnLabel)            Maps the given ResultSet column label to its ResultSet column index. |
| boolean | **ResultSet.**[**first**](http://docs.google.com/java/sql/ResultSet.html#first())()            Moves the cursor to the first row in this ResultSet object. |
| void | **SQLXML.**[**free**](http://docs.google.com/java/sql/SQLXML.html#free())()            This method closes this object and releases the resources that it held. |
| void | **Clob.**[**free**](http://docs.google.com/java/sql/Clob.html#free())()            This method frees the Clob object and releases the resources the resources that it holds. |
| void | **Blob.**[**free**](http://docs.google.com/java/sql/Blob.html#free())()            This method frees the Blob object and releases the resources that it holds. |
| void | **Array.**[**free**](http://docs.google.com/java/sql/Array.html#free())()            This method frees the Array object and releases the resources that it holds. |
| [Object](http://docs.google.com/java/lang/Object.html) | **Array.**[**getArray**](http://docs.google.com/java/sql/Array.html#getArray())()            Retrieves the contents of the SQL ARRAY value designated by this Array object in the form of an array in the Java programming language. |
| [Array](http://docs.google.com/java/sql/Array.html) | **CallableStatement.**[**getArray**](http://docs.google.com/java/sql/CallableStatement.html#getArray(int))(int parameterIndex)            Retrieves the value of the designated JDBC ARRAY parameter as an [Array](http://docs.google.com/java/sql/Array.html) object in the Java programming language. |
| [Array](http://docs.google.com/java/sql/Array.html) | **ResultSet.**[**getArray**](http://docs.google.com/java/sql/ResultSet.html#getArray(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as an Array object in the Java programming language. |
| [Object](http://docs.google.com/java/lang/Object.html) | **Array.**[**getArray**](http://docs.google.com/java/sql/Array.html#getArray(long,%20int))(long index, int count)            Retrieves a slice of the SQL ARRAY value designated by this Array object, beginning with the specified index and containing up to count successive elements of the SQL array. |
| [Object](http://docs.google.com/java/lang/Object.html) | **Array.**[**getArray**](http://docs.google.com/java/sql/Array.html#getArray(long,%20int,%20java.util.Map))(long index, int count, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> map)            Retreives a slice of the SQL ARRAY value designated by this Array object, beginning with the specified index and containing up to count successive elements of the SQL array. |
| [Object](http://docs.google.com/java/lang/Object.html) | **Array.**[**getArray**](http://docs.google.com/java/sql/Array.html#getArray(java.util.Map))([Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> map)            Retrieves the contents of the SQL ARRAY value designated by this Array object. |
| [Array](http://docs.google.com/java/sql/Array.html) | **CallableStatement.**[**getArray**](http://docs.google.com/java/sql/CallableStatement.html#getArray(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC ARRAY parameter as an [Array](http://docs.google.com/java/sql/Array.html) object in the Java programming language. |
| [Array](http://docs.google.com/java/sql/Array.html) | **ResultSet.**[**getArray**](http://docs.google.com/java/sql/ResultSet.html#getArray(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 an Array object in the Java programming language. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **Clob.**[**getAsciiStream**](http://docs.google.com/java/sql/Clob.html#getAsciiStream())()            Retrieves the CLOB value designated by this Clob object as an ascii stream. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **ResultSet.**[**getAsciiStream**](http://docs.google.com/java/sql/ResultSet.html#getAsciiStream(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a stream of ASCII characters. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **ResultSet.**[**getAsciiStream**](http://docs.google.com/java/sql/ResultSet.html#getAsciiStream(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 stream of ASCII characters. |
| [Object](http://docs.google.com/java/lang/Object.html)[] | **Struct.**[**getAttributes**](http://docs.google.com/java/sql/Struct.html#getAttributes())()            Produces the ordered values of the attributes of the SQL structured type that this Struct object represents. |
| [Object](http://docs.google.com/java/lang/Object.html)[] | **Struct.**[**getAttributes**](http://docs.google.com/java/sql/Struct.html#getAttributes(java.util.Map))([Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> map)            Produces the ordered values of the attributes of the SQL structured type that this Struct object represents. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getAttributes**](http://docs.google.com/java/sql/DatabaseMetaData.html#getAttributes(java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schemaPattern, [String](http://docs.google.com/java/lang/String.html) typeNamePattern, [String](http://docs.google.com/java/lang/String.html) attributeNamePattern)            Retrieves a description of the given attribute of the given type for a user-defined type (UDT) that is available in the given schema and catalog. |
| boolean | **Connection.**[**getAutoCommit**](http://docs.google.com/java/sql/Connection.html#getAutoCommit())()            Retrieves the current auto-commit mode for this Connection object. |
| int | **Array.**[**getBaseType**](http://docs.google.com/java/sql/Array.html#getBaseType())()            Retrieves the JDBC type of the elements in the array designated by this Array object. |
| [String](http://docs.google.com/java/lang/String.html) | **Ref.**[**getBaseTypeName**](http://docs.google.com/java/sql/Ref.html#getBaseTypeName())()            Retrieves the fully-qualified SQL name of the SQL structured type that this Ref object references. |
| [String](http://docs.google.com/java/lang/String.html) | **Array.**[**getBaseTypeName**](http://docs.google.com/java/sql/Array.html#getBaseTypeName())()            Retrieves the SQL type name of the elements in the array designated by this Array object. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getBestRowIdentifier**](http://docs.google.com/java/sql/DatabaseMetaData.html#getBestRowIdentifier(java.lang.String,%20java.lang.String,%20java.lang.String,%20int,%20boolean))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schema, [String](http://docs.google.com/java/lang/String.html) table, int scope, boolean nullable)            Retrieves a description of a table's optimal set of columns that uniquely identifies a row. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **CallableStatement.**[**getBigDecimal**](http://docs.google.com/java/sql/CallableStatement.html#getBigDecimal(int))(int parameterIndex)            Retrieves the value of the designated JDBC NUMERIC parameter as a java.math.BigDecimal object with as many digits to the right of the decimal point as the value contains. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **ResultSet.**[**getBigDecimal**](http://docs.google.com/java/sql/ResultSet.html#getBigDecimal(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.math.BigDecimal with full precision. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **CallableStatement.**[**getBigDecimal**](http://docs.google.com/java/sql/CallableStatement.html#getBigDecimal(int,%20int))(int parameterIndex, int scale)  **Deprecated.** *use getBigDecimal(int parameterIndex) or getBigDecimal(String parameterName)* |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **ResultSet.**[**getBigDecimal**](http://docs.google.com/java/sql/ResultSet.html#getBigDecimal(int,%20int))(int columnIndex, int scale)  **Deprecated.** |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **CallableStatement.**[**getBigDecimal**](http://docs.google.com/java/sql/CallableStatement.html#getBigDecimal(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC NUMERIC parameter as a java.math.BigDecimal object with as many digits to the right of the decimal point as the value contains. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **ResultSet.**[**getBigDecimal**](http://docs.google.com/java/sql/ResultSet.html#getBigDecimal(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 java.math.BigDecimal with full precision. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **ResultSet.**[**getBigDecimal**](http://docs.google.com/java/sql/ResultSet.html#getBigDecimal(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) columnLabel, int scale)  **Deprecated.** |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **SQLXML.**[**getBinaryStream**](http://docs.google.com/java/sql/SQLXML.html#getBinaryStream())()            Retrieves the XML value designated by this SQLXML instance as a stream. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **Blob.**[**getBinaryStream**](http://docs.google.com/java/sql/Blob.html#getBinaryStream())()            Retrieves the BLOB value designated by this Blob instance as a stream. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **ResultSet.**[**getBinaryStream**](http://docs.google.com/java/sql/ResultSet.html#getBinaryStream(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a stream of uninterpreted bytes. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **Blob.**[**getBinaryStream**](http://docs.google.com/java/sql/Blob.html#getBinaryStream(long,%20long))(long pos, long length)            Returns an InputStream object that contains a partial Blob value, starting with the byte specified by pos, which is length bytes in length. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **ResultSet.**[**getBinaryStream**](http://docs.google.com/java/sql/ResultSet.html#getBinaryStream(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 stream of uninterpreted bytes. |
| [Blob](http://docs.google.com/java/sql/Blob.html) | **CallableStatement.**[**getBlob**](http://docs.google.com/java/sql/CallableStatement.html#getBlob(int))(int parameterIndex)            Retrieves the value of the designated JDBC BLOB parameter as a [Blob](http://docs.google.com/java/sql/Blob.html) object in the Java programming language. |
| [Blob](http://docs.google.com/java/sql/Blob.html) | **ResultSet.**[**getBlob**](http://docs.google.com/java/sql/ResultSet.html#getBlob(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a Blob object in the Java programming language. |
| [Blob](http://docs.google.com/java/sql/Blob.html) | **CallableStatement.**[**getBlob**](http://docs.google.com/java/sql/CallableStatement.html#getBlob(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC BLOB parameter as a [Blob](http://docs.google.com/java/sql/Blob.html) object in the Java programming language. |
| [Blob](http://docs.google.com/java/sql/Blob.html) | **ResultSet.**[**getBlob**](http://docs.google.com/java/sql/ResultSet.html#getBlob(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 Blob object in the Java programming language. |
| boolean | **CallableStatement.**[**getBoolean**](http://docs.google.com/java/sql/CallableStatement.html#getBoolean(int))(int parameterIndex)            Retrieves the value of the designated JDBC BIT or BOOLEAN parameter as a boolean in the Java programming language. |
| boolean | **ResultSet.**[**getBoolean**](http://docs.google.com/java/sql/ResultSet.html#getBoolean(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a boolean in the Java programming language. |
| boolean | **CallableStatement.**[**getBoolean**](http://docs.google.com/java/sql/CallableStatement.html#getBoolean(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC BIT or BOOLEAN parameter as a boolean in the Java programming language. |
| boolean | **ResultSet.**[**getBoolean**](http://docs.google.com/java/sql/ResultSet.html#getBoolean(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 boolean in the Java programming language. |
| byte | **CallableStatement.**[**getByte**](http://docs.google.com/java/sql/CallableStatement.html#getByte(int))(int parameterIndex)            Retrieves the value of the designated JDBC TINYINT parameter as a byte in the Java programming language. |
| byte | **ResultSet.**[**getByte**](http://docs.google.com/java/sql/ResultSet.html#getByte(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a byte in the Java programming language. |
| byte | **CallableStatement.**[**getByte**](http://docs.google.com/java/sql/CallableStatement.html#getByte(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC TINYINT parameter as a byte in the Java programming language. |
| byte | **ResultSet.**[**getByte**](http://docs.google.com/java/sql/ResultSet.html#getByte(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 byte in the Java programming language. |
| byte[] | **CallableStatement.**[**getBytes**](http://docs.google.com/java/sql/CallableStatement.html#getBytes(int))(int parameterIndex)            Retrieves the value of the designated JDBC BINARY or VARBINARY parameter as an array of byte values in the Java programming language. |
| byte[] | **ResultSet.**[**getBytes**](http://docs.google.com/java/sql/ResultSet.html#getBytes(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a byte array in the Java programming language. |
| byte[] | **Blob.**[**getBytes**](http://docs.google.com/java/sql/Blob.html#getBytes(long,%20int))(long pos, int length)            Retrieves all or part of the BLOB value that this Blob object represents, as an array of bytes. |
| byte[] | **CallableStatement.**[**getBytes**](http://docs.google.com/java/sql/CallableStatement.html#getBytes(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC BINARY or VARBINARY parameter as an array of byte values in the Java programming language. |
| byte[] | **ResultSet.**[**getBytes**](http://docs.google.com/java/sql/ResultSet.html#getBytes(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 byte array in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **Connection.**[**getCatalog**](http://docs.google.com/java/sql/Connection.html#getCatalog())()            Retrieves this Connection object's current catalog name. |
| [String](http://docs.google.com/java/lang/String.html) | **ResultSetMetaData.**[**getCatalogName**](http://docs.google.com/java/sql/ResultSetMetaData.html#getCatalogName(int))(int column)            Gets the designated column's table's catalog name. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getCatalogs**](http://docs.google.com/java/sql/DatabaseMetaData.html#getCatalogs())()            Retrieves the catalog names available in this database. |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getCatalogSeparator**](http://docs.google.com/java/sql/DatabaseMetaData.html#getCatalogSeparator())()            Retrieves the String that this database uses as the separator between a catalog and table name. |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getCatalogTerm**](http://docs.google.com/java/sql/DatabaseMetaData.html#getCatalogTerm())()            Retrieves the database vendor's preferred term for "catalog". |
| [Reader](http://docs.google.com/java/io/Reader.html) | **SQLXML.**[**getCharacterStream**](http://docs.google.com/java/sql/SQLXML.html#getCharacterStream())()            Retrieves the XML value designated by this SQLXML instance as a java.io.Reader object. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **Clob.**[**getCharacterStream**](http://docs.google.com/java/sql/Clob.html#getCharacterStream())()            Retrieves the CLOB value designated by this Clob object as a java.io.Reader object (or as a stream of characters). |
| [Reader](http://docs.google.com/java/io/Reader.html) | **CallableStatement.**[**getCharacterStream**](http://docs.google.com/java/sql/CallableStatement.html#getCharacterStream(int))(int parameterIndex)            Retrieves the value of the designated parameter as a java.io.Reader object in the Java programming language. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **ResultSet.**[**getCharacterStream**](http://docs.google.com/java/sql/ResultSet.html#getCharacterStream(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.io.Reader object. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **Clob.**[**getCharacterStream**](http://docs.google.com/java/sql/Clob.html#getCharacterStream(long,%20long))(long pos, long length)            Returns a Reader object that contains a partial Clob value, starting with the character specified by pos, which is length characters in length. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **CallableStatement.**[**getCharacterStream**](http://docs.google.com/java/sql/CallableStatement.html#getCharacterStream(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of the designated parameter as a java.io.Reader object in the Java programming language. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **ResultSet.**[**getCharacterStream**](http://docs.google.com/java/sql/ResultSet.html#getCharacterStream(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 java.io.Reader object. |
| [Properties](http://docs.google.com/java/util/Properties.html) | **Connection.**[**getClientInfo**](http://docs.google.com/java/sql/Connection.html#getClientInfo())()            Returns a list containing the name and current value of each client info property supported by the driver. |
| [String](http://docs.google.com/java/lang/String.html) | **Connection.**[**getClientInfo**](http://docs.google.com/java/sql/Connection.html#getClientInfo(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Returns the value of the client info property specified by name. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getClientInfoProperties**](http://docs.google.com/java/sql/DatabaseMetaData.html#getClientInfoProperties())()            Retrieves a list of the client info properties that the driver supports. |
| [Clob](http://docs.google.com/java/sql/Clob.html) | **CallableStatement.**[**getClob**](http://docs.google.com/java/sql/CallableStatement.html#getClob(int))(int parameterIndex)            Retrieves the value of the designated JDBC CLOB parameter as a java.sql.Clob object in the Java programming language. |
| [Clob](http://docs.google.com/java/sql/Clob.html) | **ResultSet.**[**getClob**](http://docs.google.com/java/sql/ResultSet.html#getClob(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a Clob object in the Java programming language. |
| [Clob](http://docs.google.com/java/sql/Clob.html) | **CallableStatement.**[**getClob**](http://docs.google.com/java/sql/CallableStatement.html#getClob(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC CLOB parameter as a java.sql.Clob object in the Java programming language. |
| [Clob](http://docs.google.com/java/sql/Clob.html) | **ResultSet.**[**getClob**](http://docs.google.com/java/sql/ResultSet.html#getClob(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 Clob object in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **ResultSetMetaData.**[**getColumnClassName**](http://docs.google.com/java/sql/ResultSetMetaData.html#getColumnClassName(int))(int column)            Returns the fully-qualified name of the Java class whose instances are manufactured if the method ResultSet.getObject is called to retrieve a value from the column. |
| int | **ResultSetMetaData.**[**getColumnCount**](http://docs.google.com/java/sql/ResultSetMetaData.html#getColumnCount())()            Returns the number of columns in this ResultSet object. |
| int | **ResultSetMetaData.**[**getColumnDisplaySize**](http://docs.google.com/java/sql/ResultSetMetaData.html#getColumnDisplaySize(int))(int column)            Indicates the designated column's normal maximum width in characters. |
| [String](http://docs.google.com/java/lang/String.html) | **ResultSetMetaData.**[**getColumnLabel**](http://docs.google.com/java/sql/ResultSetMetaData.html#getColumnLabel(int))(int column)            Gets the designated column's suggested title for use in printouts and displays. |
| [String](http://docs.google.com/java/lang/String.html) | **ResultSetMetaData.**[**getColumnName**](http://docs.google.com/java/sql/ResultSetMetaData.html#getColumnName(int))(int column)            Get the designated column's name. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getColumnPrivileges**](http://docs.google.com/java/sql/DatabaseMetaData.html#getColumnPrivileges(java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schema, [String](http://docs.google.com/java/lang/String.html) table, [String](http://docs.google.com/java/lang/String.html) columnNamePattern)            Retrieves a description of the access rights for a table's columns. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getColumns**](http://docs.google.com/java/sql/DatabaseMetaData.html#getColumns(java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schemaPattern, [String](http://docs.google.com/java/lang/String.html) tableNamePattern, [String](http://docs.google.com/java/lang/String.html) columnNamePattern)            Retrieves a description of table columns available in the specified catalog. |
| int | **ResultSetMetaData.**[**getColumnType**](http://docs.google.com/java/sql/ResultSetMetaData.html#getColumnType(int))(int column)            Retrieves the designated column's SQL type. |
| [String](http://docs.google.com/java/lang/String.html) | **ResultSetMetaData.**[**getColumnTypeName**](http://docs.google.com/java/sql/ResultSetMetaData.html#getColumnTypeName(int))(int column)            Retrieves the designated column's database-specific type name. |
| int | **ResultSet.**[**getConcurrency**](http://docs.google.com/java/sql/ResultSet.html#getConcurrency())()            Retrieves the concurrency mode of this ResultSet object. |
| [Connection](http://docs.google.com/java/sql/Connection.html) | **DatabaseMetaData.**[**getConnection**](http://docs.google.com/java/sql/DatabaseMetaData.html#getConnection())()            Retrieves the connection that produced this metadata object. |
| [Connection](http://docs.google.com/java/sql/Connection.html) | **Statement.**[**getConnection**](http://docs.google.com/java/sql/Statement.html#getConnection())()            Retrieves the Connection object that produced this Statement object. |
| static [Connection](http://docs.google.com/java/sql/Connection.html) | **DriverManager.**[**getConnection**](http://docs.google.com/java/sql/DriverManager.html#getConnection(java.lang.String))([String](http://docs.google.com/java/lang/String.html) url)            Attempts to establish a connection to the given database URL. |
| static [Connection](http://docs.google.com/java/sql/Connection.html) | **DriverManager.**[**getConnection**](http://docs.google.com/java/sql/DriverManager.html#getConnection(java.lang.String,%20java.util.Properties))([String](http://docs.google.com/java/lang/String.html) url, [Properties](http://docs.google.com/java/util/Properties.html) info)            Attempts to establish a connection to the given database URL. |
| static [Connection](http://docs.google.com/java/sql/Connection.html) | **DriverManager.**[**getConnection**](http://docs.google.com/java/sql/DriverManager.html#getConnection(java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) url, [String](http://docs.google.com/java/lang/String.html) user, [String](http://docs.google.com/java/lang/String.html) password)            Attempts to establish a connection to the given database URL. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getCrossReference**](http://docs.google.com/java/sql/DatabaseMetaData.html#getCrossReference(java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) parentCatalog, [String](http://docs.google.com/java/lang/String.html) parentSchema, [String](http://docs.google.com/java/lang/String.html) parentTable, [String](http://docs.google.com/java/lang/String.html) foreignCatalog, [String](http://docs.google.com/java/lang/String.html) foreignSchema, [String](http://docs.google.com/java/lang/String.html) foreignTable)            Retrieves a description of the foreign key columns in the given foreign key table that reference the primary key or the columns representing a unique constraint of the parent table (could be the same or a different table). |
| [String](http://docs.google.com/java/lang/String.html) | **ResultSet.**[**getCursorName**](http://docs.google.com/java/sql/ResultSet.html#getCursorName())()            Retrieves the name of the SQL cursor used by this ResultSet object. |
| int | **DatabaseMetaData.**[**getDatabaseMajorVersion**](http://docs.google.com/java/sql/DatabaseMetaData.html#getDatabaseMajorVersion())()            Retrieves the major version number of the underlying database. |
| int | **DatabaseMetaData.**[**getDatabaseMinorVersion**](http://docs.google.com/java/sql/DatabaseMetaData.html#getDatabaseMinorVersion())()            Retrieves the minor version number of the underlying database. |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getDatabaseProductName**](http://docs.google.com/java/sql/DatabaseMetaData.html#getDatabaseProductName())()            Retrieves the name of this database product. |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getDatabaseProductVersion**](http://docs.google.com/java/sql/DatabaseMetaData.html#getDatabaseProductVersion())()            Retrieves the version number of this database product. |
| [Date](http://docs.google.com/java/sql/Date.html) | **CallableStatement.**[**getDate**](http://docs.google.com/java/sql/CallableStatement.html#getDate(int))(int parameterIndex)            Retrieves the value of the designated JDBC DATE parameter as a java.sql.Date object. |
| [Date](http://docs.google.com/java/sql/Date.html) | **ResultSet.**[**getDate**](http://docs.google.com/java/sql/ResultSet.html#getDate(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.sql.Date object in the Java programming language. |
| [Date](http://docs.google.com/java/sql/Date.html) | **CallableStatement.**[**getDate**](http://docs.google.com/java/sql/CallableStatement.html#getDate(int,%20java.util.Calendar))(int parameterIndex, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Retrieves the value of the designated JDBC DATE parameter as a java.sql.Date object, using the given Calendar object to construct the date. |
| [Date](http://docs.google.com/java/sql/Date.html) | **ResultSet.**[**getDate**](http://docs.google.com/java/sql/ResultSet.html#getDate(int,%20java.util.Calendar))(int columnIndex, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.sql.Date object in the Java programming language. |
| [Date](http://docs.google.com/java/sql/Date.html) | **CallableStatement.**[**getDate**](http://docs.google.com/java/sql/CallableStatement.html#getDate(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC DATE parameter as a java.sql.Date object. |
| [Date](http://docs.google.com/java/sql/Date.html) | **ResultSet.**[**getDate**](http://docs.google.com/java/sql/ResultSet.html#getDate(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 java.sql.Date object in the Java programming language. |
| [Date](http://docs.google.com/java/sql/Date.html) | **CallableStatement.**[**getDate**](http://docs.google.com/java/sql/CallableStatement.html#getDate(java.lang.String,%20java.util.Calendar))([String](http://docs.google.com/java/lang/String.html) parameterName, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Retrieves the value of a JDBC DATE parameter as a java.sql.Date object, using the given Calendar object to construct the date. |
| [Date](http://docs.google.com/java/sql/Date.html) | **ResultSet.**[**getDate**](http://docs.google.com/java/sql/ResultSet.html#getDate(java.lang.String,%20java.util.Calendar))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.sql.Date object in the Java programming language. |
| int | **DatabaseMetaData.**[**getDefaultTransactionIsolation**](http://docs.google.com/java/sql/DatabaseMetaData.html#getDefaultTransactionIsolation())()            Retrieves this database's default transaction isolation level. |
| double | **CallableStatement.**[**getDouble**](http://docs.google.com/java/sql/CallableStatement.html#getDouble(int))(int parameterIndex)            Retrieves the value of the designated JDBC DOUBLE parameter as a double in the Java programming language. |
| double | **ResultSet.**[**getDouble**](http://docs.google.com/java/sql/ResultSet.html#getDouble(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a double in the Java programming language. |
| double | **CallableStatement.**[**getDouble**](http://docs.google.com/java/sql/CallableStatement.html#getDouble(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC DOUBLE parameter as a double in the Java programming language. |
| double | **ResultSet.**[**getDouble**](http://docs.google.com/java/sql/ResultSet.html#getDouble(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 double in the Java programming language. |
| static [Driver](http://docs.google.com/java/sql/Driver.html) | **DriverManager.**[**getDriver**](http://docs.google.com/java/sql/DriverManager.html#getDriver(java.lang.String))([String](http://docs.google.com/java/lang/String.html) url)            Attempts to locate a driver that understands the given URL. |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getDriverName**](http://docs.google.com/java/sql/DatabaseMetaData.html#getDriverName())()            Retrieves the name of this JDBC driver. |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getDriverVersion**](http://docs.google.com/java/sql/DatabaseMetaData.html#getDriverVersion())()            Retrieves the version number of this JDBC driver as a String. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getExportedKeys**](http://docs.google.com/java/sql/DatabaseMetaData.html#getExportedKeys(java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schema, [String](http://docs.google.com/java/lang/String.html) table)            Retrieves a description of the foreign key columns that reference the given table's primary key columns (the foreign keys exported by a table). |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getExtraNameCharacters**](http://docs.google.com/java/sql/DatabaseMetaData.html#getExtraNameCharacters())()            Retrieves all the "extra" characters that can be used in unquoted identifier names (those beyond a-z, A-Z, 0-9 and \_). |
| int | **Statement.**[**getFetchDirection**](http://docs.google.com/java/sql/Statement.html#getFetchDirection())()            Retrieves the direction for fetching rows from database tables that is the default for result sets generated from this Statement object. |
| int | **ResultSet.**[**getFetchDirection**](http://docs.google.com/java/sql/ResultSet.html#getFetchDirection())()            Retrieves the fetch direction for this ResultSet object. |
| int | **Statement.**[**getFetchSize**](http://docs.google.com/java/sql/Statement.html#getFetchSize())()            Retrieves the number of result set rows that is the default fetch size for ResultSet objects generated from this Statement object. |
| int | **ResultSet.**[**getFetchSize**](http://docs.google.com/java/sql/ResultSet.html#getFetchSize())()            Retrieves the fetch size for this ResultSet object. |
| float | **CallableStatement.**[**getFloat**](http://docs.google.com/java/sql/CallableStatement.html#getFloat(int))(int parameterIndex)            Retrieves the value of the designated JDBC FLOAT parameter as a float in the Java programming language. |
| float | **ResultSet.**[**getFloat**](http://docs.google.com/java/sql/ResultSet.html#getFloat(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a float in the Java programming language. |
| float | **CallableStatement.**[**getFloat**](http://docs.google.com/java/sql/CallableStatement.html#getFloat(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC FLOAT parameter as a float in the Java programming language. |
| float | **ResultSet.**[**getFloat**](http://docs.google.com/java/sql/ResultSet.html#getFloat(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 float in the Java programming language. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getFunctionColumns**](http://docs.google.com/java/sql/DatabaseMetaData.html#getFunctionColumns(java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schemaPattern, [String](http://docs.google.com/java/lang/String.html) functionNamePattern, [String](http://docs.google.com/java/lang/String.html) columnNamePattern)            Retrieves a description of the given catalog's system or user function parameters and return type. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getFunctions**](http://docs.google.com/java/sql/DatabaseMetaData.html#getFunctions(java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schemaPattern, [String](http://docs.google.com/java/lang/String.html) functionNamePattern)            Retrieves a description of the system and user functions available in the given catalog. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **Statement.**[**getGeneratedKeys**](http://docs.google.com/java/sql/Statement.html#getGeneratedKeys())()            Retrieves any auto-generated keys created as a result of executing this Statement object. |
| int | **Connection.**[**getHoldability**](http://docs.google.com/java/sql/Connection.html#getHoldability())()            Retrieves the current holdability of ResultSet objects created using this Connection object. |
| int | **ResultSet.**[**getHoldability**](http://docs.google.com/java/sql/ResultSet.html#getHoldability())()            Retrieves the holdability of this ResultSet object |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getIdentifierQuoteString**](http://docs.google.com/java/sql/DatabaseMetaData.html#getIdentifierQuoteString())()            Retrieves the string used to quote SQL identifiers. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getImportedKeys**](http://docs.google.com/java/sql/DatabaseMetaData.html#getImportedKeys(java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schema, [String](http://docs.google.com/java/lang/String.html) table)            Retrieves a description of the primary key columns that are referenced by the given table's foreign key columns (the primary keys imported by a table). |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getIndexInfo**](http://docs.google.com/java/sql/DatabaseMetaData.html#getIndexInfo(java.lang.String,%20java.lang.String,%20java.lang.String,%20boolean,%20boolean))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schema, [String](http://docs.google.com/java/lang/String.html) table, boolean unique, boolean approximate)            Retrieves a description of the given table's indices and statistics. |
| int | **CallableStatement.**[**getInt**](http://docs.google.com/java/sql/CallableStatement.html#getInt(int))(int parameterIndex)            Retrieves the value of the designated JDBC INTEGER parameter as an int in the Java programming language. |
| int | **ResultSet.**[**getInt**](http://docs.google.com/java/sql/ResultSet.html#getInt(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as an int in the Java programming language. |
| int | **CallableStatement.**[**getInt**](http://docs.google.com/java/sql/CallableStatement.html#getInt(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC INTEGER parameter as an int in the Java programming language. |
| int | **ResultSet.**[**getInt**](http://docs.google.com/java/sql/ResultSet.html#getInt(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 an int in the Java programming language. |
| int | **DatabaseMetaData.**[**getJDBCMajorVersion**](http://docs.google.com/java/sql/DatabaseMetaData.html#getJDBCMajorVersion())()            Retrieves the major JDBC version number for this driver. |
| int | **DatabaseMetaData.**[**getJDBCMinorVersion**](http://docs.google.com/java/sql/DatabaseMetaData.html#getJDBCMinorVersion())()            Retrieves the minor JDBC version number for this driver. |
| long | **CallableStatement.**[**getLong**](http://docs.google.com/java/sql/CallableStatement.html#getLong(int))(int parameterIndex)            Retrieves the value of the designated JDBC BIGINT parameter as a long in the Java programming language. |
| long | **ResultSet.**[**getLong**](http://docs.google.com/java/sql/ResultSet.html#getLong(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a long in the Java programming language. |
| long | **CallableStatement.**[**getLong**](http://docs.google.com/java/sql/CallableStatement.html#getLong(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC BIGINT parameter as a long in the Java programming language. |
| long | **ResultSet.**[**getLong**](http://docs.google.com/java/sql/ResultSet.html#getLong(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 long in the Java programming language. |
| int | **DatabaseMetaData.**[**getMaxBinaryLiteralLength**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxBinaryLiteralLength())()            Retrieves the maximum number of hex characters this database allows in an inline binary literal. |
| int | **DatabaseMetaData.**[**getMaxCatalogNameLength**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxCatalogNameLength())()            Retrieves the maximum number of characters that this database allows in a catalog name. |
| int | **DatabaseMetaData.**[**getMaxCharLiteralLength**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxCharLiteralLength())()            Retrieves the maximum number of characters this database allows for a character literal. |
| int | **DatabaseMetaData.**[**getMaxColumnNameLength**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxColumnNameLength())()            Retrieves the maximum number of characters this database allows for a column name. |
| int | **DatabaseMetaData.**[**getMaxColumnsInGroupBy**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxColumnsInGroupBy())()            Retrieves the maximum number of columns this database allows in a GROUP BY clause. |
| int | **DatabaseMetaData.**[**getMaxColumnsInIndex**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxColumnsInIndex())()            Retrieves the maximum number of columns this database allows in an index. |
| int | **DatabaseMetaData.**[**getMaxColumnsInOrderBy**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxColumnsInOrderBy())()            Retrieves the maximum number of columns this database allows in an ORDER BY clause. |
| int | **DatabaseMetaData.**[**getMaxColumnsInSelect**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxColumnsInSelect())()            Retrieves the maximum number of columns this database allows in a SELECT list. |
| int | **DatabaseMetaData.**[**getMaxColumnsInTable**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxColumnsInTable())()            Retrieves the maximum number of columns this database allows in a table. |
| int | **DatabaseMetaData.**[**getMaxConnections**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxConnections())()            Retrieves the maximum number of concurrent connections to this database that are possible. |
| int | **DatabaseMetaData.**[**getMaxCursorNameLength**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxCursorNameLength())()            Retrieves the maximum number of characters that this database allows in a cursor name. |
| int | **Statement.**[**getMaxFieldSize**](http://docs.google.com/java/sql/Statement.html#getMaxFieldSize())()            Retrieves the maximum number of bytes that can be returned for character and binary column values in a ResultSet object produced by this Statement object. |
| int | **DatabaseMetaData.**[**getMaxIndexLength**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxIndexLength())()            Retrieves the maximum number of bytes this database allows for an index, including all of the parts of the index. |
| int | **DatabaseMetaData.**[**getMaxProcedureNameLength**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxProcedureNameLength())()            Retrieves the maximum number of characters that this database allows in a procedure name. |
| int | **Statement.**[**getMaxRows**](http://docs.google.com/java/sql/Statement.html#getMaxRows())()            Retrieves the maximum number of rows that a ResultSet object produced by this Statement object can contain. |
| int | **DatabaseMetaData.**[**getMaxRowSize**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxRowSize())()            Retrieves the maximum number of bytes this database allows in a single row. |
| int | **DatabaseMetaData.**[**getMaxSchemaNameLength**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxSchemaNameLength())()            Retrieves the maximum number of characters that this database allows in a schema name. |
| int | **DatabaseMetaData.**[**getMaxStatementLength**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxStatementLength())()            Retrieves the maximum number of characters this database allows in an SQL statement. |
| int | **DatabaseMetaData.**[**getMaxStatements**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxStatements())()            Retrieves the maximum number of active statements to this database that can be open at the same time. |
| int | **DatabaseMetaData.**[**getMaxTableNameLength**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxTableNameLength())()            Retrieves the maximum number of characters this database allows in a table name. |
| int | **DatabaseMetaData.**[**getMaxTablesInSelect**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxTablesInSelect())()            Retrieves the maximum number of tables this database allows in a SELECT statement. |
| int | **DatabaseMetaData.**[**getMaxUserNameLength**](http://docs.google.com/java/sql/DatabaseMetaData.html#getMaxUserNameLength())()            Retrieves the maximum number of characters this database allows in a user name. |
| [ResultSetMetaData](http://docs.google.com/java/sql/ResultSetMetaData.html) | **PreparedStatement.**[**getMetaData**](http://docs.google.com/java/sql/PreparedStatement.html#getMetaData())()            Retrieves a ResultSetMetaData object that contains information about the columns of the ResultSet object that will be returned when this PreparedStatement object is executed. |
| [DatabaseMetaData](http://docs.google.com/java/sql/DatabaseMetaData.html) | **Connection.**[**getMetaData**](http://docs.google.com/java/sql/Connection.html#getMetaData())()            Retrieves a DatabaseMetaData object that contains metadata about the database to which this Connection object represents a connection. |
| [ResultSetMetaData](http://docs.google.com/java/sql/ResultSetMetaData.html) | **ResultSet.**[**getMetaData**](http://docs.google.com/java/sql/ResultSet.html#getMetaData())()            Retrieves the number, types and properties of this ResultSet object's columns. |
| boolean | **Statement.**[**getMoreResults**](http://docs.google.com/java/sql/Statement.html#getMoreResults())()            Moves to this Statement object's next result, returns true if it is a ResultSet object, and implicitly closes any current ResultSet object(s) obtained with the method getResultSet. |
| boolean | **Statement.**[**getMoreResults**](http://docs.google.com/java/sql/Statement.html#getMoreResults(int))(int current)            Moves to this Statement object's next result, deals with any current ResultSet object(s) according to the instructions specified by the given flag, and returns true if the next result is a ResultSet object. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **CallableStatement.**[**getNCharacterStream**](http://docs.google.com/java/sql/CallableStatement.html#getNCharacterStream(int))(int parameterIndex)            Retrieves the value of the designated parameter as a java.io.Reader object in the Java programming language. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **ResultSet.**[**getNCharacterStream**](http://docs.google.com/java/sql/ResultSet.html#getNCharacterStream(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.io.Reader object. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **CallableStatement.**[**getNCharacterStream**](http://docs.google.com/java/sql/CallableStatement.html#getNCharacterStream(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of the designated parameter as a java.io.Reader object in the Java programming language. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **ResultSet.**[**getNCharacterStream**](http://docs.google.com/java/sql/ResultSet.html#getNCharacterStream(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 java.io.Reader object. |
| [NClob](http://docs.google.com/java/sql/NClob.html) | **CallableStatement.**[**getNClob**](http://docs.google.com/java/sql/CallableStatement.html#getNClob(int))(int parameterIndex)            Retrieves the value of the designated JDBC NCLOB parameter as a java.sql.NClob object in the Java programming language. |
| [NClob](http://docs.google.com/java/sql/NClob.html) | **ResultSet.**[**getNClob**](http://docs.google.com/java/sql/ResultSet.html#getNClob(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a NClob object in the Java programming language. |
| [NClob](http://docs.google.com/java/sql/NClob.html) | **CallableStatement.**[**getNClob**](http://docs.google.com/java/sql/CallableStatement.html#getNClob(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC NCLOB parameter as a java.sql.NClob object in the Java programming language. |
| [NClob](http://docs.google.com/java/sql/NClob.html) | **ResultSet.**[**getNClob**](http://docs.google.com/java/sql/ResultSet.html#getNClob(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 NClob object in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **CallableStatement.**[**getNString**](http://docs.google.com/java/sql/CallableStatement.html#getNString(int))(int parameterIndex)            Retrieves the value of the designated NCHAR, NVARCHAR or LONGNVARCHAR parameter as a String in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **ResultSet.**[**getNString**](http://docs.google.com/java/sql/ResultSet.html#getNString(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a String in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **CallableStatement.**[**getNString**](http://docs.google.com/java/sql/CallableStatement.html#getNString(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of the designated NCHAR, NVARCHAR or LONGNVARCHAR parameter as a String in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **ResultSet.**[**getNString**](http://docs.google.com/java/sql/ResultSet.html#getNString(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 String in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getNumericFunctions**](http://docs.google.com/java/sql/DatabaseMetaData.html#getNumericFunctions())()            Retrieves a comma-separated list of math functions available with this database. |
| [Object](http://docs.google.com/java/lang/Object.html) | **Ref.**[**getObject**](http://docs.google.com/java/sql/Ref.html#getObject())()            Retrieves the SQL structured type instance referenced by this Ref object. |
| [Object](http://docs.google.com/java/lang/Object.html) | **CallableStatement.**[**getObject**](http://docs.google.com/java/sql/CallableStatement.html#getObject(int))(int parameterIndex)            Retrieves the value of the designated parameter as an Object in the Java programming language. |
| [Object](http://docs.google.com/java/lang/Object.html) | **ResultSet.**[**getObject**](http://docs.google.com/java/sql/ResultSet.html#getObject(int))(int columnIndex)            Gets the value of the designated column in the current row of this ResultSet object as an Object in the Java programming language. |
| [Object](http://docs.google.com/java/lang/Object.html) | **CallableStatement.**[**getObject**](http://docs.google.com/java/sql/CallableStatement.html#getObject(int,%20java.util.Map))(int parameterIndex, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> map)            Returns an object representing the value of OUT parameter parameterIndex and uses map for the custom mapping of the parameter value. |
| [Object](http://docs.google.com/java/lang/Object.html) | **ResultSet.**[**getObject**](http://docs.google.com/java/sql/ResultSet.html#getObject(int,%20java.util.Map))(int columnIndex, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> map)            Retrieves the value of the designated column in the current row of this ResultSet object as an Object in the Java programming language. |
| [Object](http://docs.google.com/java/lang/Object.html) | **Ref.**[**getObject**](http://docs.google.com/java/sql/Ref.html#getObject(java.util.Map))([Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> map)            Retrieves the referenced object and maps it to a Java type using the given type map. |
| [Object](http://docs.google.com/java/lang/Object.html) | **CallableStatement.**[**getObject**](http://docs.google.com/java/sql/CallableStatement.html#getObject(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a parameter as an Object in the Java programming language. |
| [Object](http://docs.google.com/java/lang/Object.html) | **ResultSet.**[**getObject**](http://docs.google.com/java/sql/ResultSet.html#getObject(java.lang.String))([String](http://docs.google.com/java/lang/String.html) columnLabel)            Gets the value of the designated column in the current row of this ResultSet object as an Object in the Java programming language. |
| [Object](http://docs.google.com/java/lang/Object.html) | **CallableStatement.**[**getObject**](http://docs.google.com/java/sql/CallableStatement.html#getObject(java.lang.String,%20java.util.Map))([String](http://docs.google.com/java/lang/String.html) parameterName, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> map)            Returns an object representing the value of OUT parameter parameterName and uses map for the custom mapping of the parameter value. |
| [Object](http://docs.google.com/java/lang/Object.html) | **ResultSet.**[**getObject**](http://docs.google.com/java/sql/ResultSet.html#getObject(java.lang.String,%20java.util.Map))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> map)            Retrieves the value of the designated column in the current row of this ResultSet object as an Object in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **ParameterMetaData.**[**getParameterClassName**](http://docs.google.com/java/sql/ParameterMetaData.html#getParameterClassName(int))(int param)            Retrieves the fully-qualified name of the Java class whose instances should be passed to the method PreparedStatement.setObject. |
| int | **ParameterMetaData.**[**getParameterCount**](http://docs.google.com/java/sql/ParameterMetaData.html#getParameterCount())()            Retrieves the number of parameters in the PreparedStatement object for which this ParameterMetaData object contains information. |
| [ParameterMetaData](http://docs.google.com/java/sql/ParameterMetaData.html) | **PreparedStatement.**[**getParameterMetaData**](http://docs.google.com/java/sql/PreparedStatement.html#getParameterMetaData())()            Retrieves the number, types and properties of this PreparedStatement object's parameters. |
| int | **ParameterMetaData.**[**getParameterMode**](http://docs.google.com/java/sql/ParameterMetaData.html#getParameterMode(int))(int param)            Retrieves the designated parameter's mode. |
| int | **ParameterMetaData.**[**getParameterType**](http://docs.google.com/java/sql/ParameterMetaData.html#getParameterType(int))(int param)            Retrieves the designated parameter's SQL type. |
| [String](http://docs.google.com/java/lang/String.html) | **ParameterMetaData.**[**getParameterTypeName**](http://docs.google.com/java/sql/ParameterMetaData.html#getParameterTypeName(int))(int param)            Retrieves the designated parameter's database-specific type name. |
| int | **ParameterMetaData.**[**getPrecision**](http://docs.google.com/java/sql/ParameterMetaData.html#getPrecision(int))(int param)            Retrieves the designated parameter's specified column size. |
| int | **ResultSetMetaData.**[**getPrecision**](http://docs.google.com/java/sql/ResultSetMetaData.html#getPrecision(int))(int column)            Get the designated column's specified column size. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getPrimaryKeys**](http://docs.google.com/java/sql/DatabaseMetaData.html#getPrimaryKeys(java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schema, [String](http://docs.google.com/java/lang/String.html) table)            Retrieves a description of the given table's primary key columns. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getProcedureColumns**](http://docs.google.com/java/sql/DatabaseMetaData.html#getProcedureColumns(java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schemaPattern, [String](http://docs.google.com/java/lang/String.html) procedureNamePattern, [String](http://docs.google.com/java/lang/String.html) columnNamePattern)            Retrieves a description of the given catalog's stored procedure parameter and result columns. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getProcedures**](http://docs.google.com/java/sql/DatabaseMetaData.html#getProcedures(java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schemaPattern, [String](http://docs.google.com/java/lang/String.html) procedureNamePattern)            Retrieves a description of the stored procedures available in the given catalog. |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getProcedureTerm**](http://docs.google.com/java/sql/DatabaseMetaData.html#getProcedureTerm())()            Retrieves the database vendor's preferred term for "procedure". |
| [DriverPropertyInfo](http://docs.google.com/java/sql/DriverPropertyInfo.html)[] | **Driver.**[**getPropertyInfo**](http://docs.google.com/java/sql/Driver.html#getPropertyInfo(java.lang.String,%20java.util.Properties))([String](http://docs.google.com/java/lang/String.html) url, [Properties](http://docs.google.com/java/util/Properties.html) info)            Gets information about the possible properties for this driver. |
| int | **Statement.**[**getQueryTimeout**](http://docs.google.com/java/sql/Statement.html#getQueryTimeout())()            Retrieves the number of seconds the driver will wait for a Statement object to execute. |
| [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. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **Statement.**[**getResultSet**](http://docs.google.com/java/sql/Statement.html#getResultSet())()            Retrieves the current result as a ResultSet object. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **Array.**[**getResultSet**](http://docs.google.com/java/sql/Array.html#getResultSet())()            Retrieves a result set that contains the elements of the SQL ARRAY value designated by this Array object. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **Array.**[**getResultSet**](http://docs.google.com/java/sql/Array.html#getResultSet(long,%20int))(long index, int count)            Retrieves a result set holding the elements of the subarray that starts at index index and contains up to count successive elements. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **Array.**[**getResultSet**](http://docs.google.com/java/sql/Array.html#getResultSet(long,%20int,%20java.util.Map))(long index, int count, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> map)            Retrieves a result set holding the elements of the subarray that starts at index index and contains up to count successive elements. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **Array.**[**getResultSet**](http://docs.google.com/java/sql/Array.html#getResultSet(java.util.Map))([Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> map)            Retrieves a result set that contains the elements of the SQL ARRAY value designated by this Array object. |
| int | **Statement.**[**getResultSetConcurrency**](http://docs.google.com/java/sql/Statement.html#getResultSetConcurrency())()            Retrieves the result set concurrency for ResultSet objects generated by this Statement object. |
| int | **DatabaseMetaData.**[**getResultSetHoldability**](http://docs.google.com/java/sql/DatabaseMetaData.html#getResultSetHoldability())()            Retrieves this database's default holdability for ResultSet objects. |
| int | **Statement.**[**getResultSetHoldability**](http://docs.google.com/java/sql/Statement.html#getResultSetHoldability())()            Retrieves the result set holdability for ResultSet objects generated by this Statement object. |
| int | **Statement.**[**getResultSetType**](http://docs.google.com/java/sql/Statement.html#getResultSetType())()            Retrieves the result set type for ResultSet objects generated by this Statement object. |
| int | **ResultSet.**[**getRow**](http://docs.google.com/java/sql/ResultSet.html#getRow())()            Retrieves the current row number. |
| [RowId](http://docs.google.com/java/sql/RowId.html) | **CallableStatement.**[**getRowId**](http://docs.google.com/java/sql/CallableStatement.html#getRowId(int))(int parameterIndex)            Retrieves the value of the designated JDBC ROWID parameter as a java.sql.RowId object. |
| [RowId](http://docs.google.com/java/sql/RowId.html) | **ResultSet.**[**getRowId**](http://docs.google.com/java/sql/ResultSet.html#getRowId(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.sql.RowId object in the Java programming language. |
| [RowId](http://docs.google.com/java/sql/RowId.html) | **CallableStatement.**[**getRowId**](http://docs.google.com/java/sql/CallableStatement.html#getRowId(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of the designated JDBC ROWID parameter as a java.sql.RowId object. |
| [RowId](http://docs.google.com/java/sql/RowId.html) | **ResultSet.**[**getRowId**](http://docs.google.com/java/sql/ResultSet.html#getRowId(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 java.sql.RowId object in the Java programming language. |
| [RowIdLifetime](http://docs.google.com/java/sql/RowIdLifetime.html) | **DatabaseMetaData.**[**getRowIdLifetime**](http://docs.google.com/java/sql/DatabaseMetaData.html#getRowIdLifetime())()            Indicates whether or not this data source supports the SQL ROWID type, and if so the lifetime for which a RowId object remains valid. |
| int | **Savepoint.**[**getSavepointId**](http://docs.google.com/java/sql/Savepoint.html#getSavepointId())()            Retrieves the generated ID for the savepoint that this Savepoint object represents. |
| [String](http://docs.google.com/java/lang/String.html) | **Savepoint.**[**getSavepointName**](http://docs.google.com/java/sql/Savepoint.html#getSavepointName())()            Retrieves the name of the savepoint that this Savepoint object represents. |
| int | **ParameterMetaData.**[**getScale**](http://docs.google.com/java/sql/ParameterMetaData.html#getScale(int))(int param)            Retrieves the designated parameter's number of digits to right of the decimal point. |
| int | **ResultSetMetaData.**[**getScale**](http://docs.google.com/java/sql/ResultSetMetaData.html#getScale(int))(int column)            Gets the designated column's number of digits to right of the decimal point. |
| [String](http://docs.google.com/java/lang/String.html) | **ResultSetMetaData.**[**getSchemaName**](http://docs.google.com/java/sql/ResultSetMetaData.html#getSchemaName(int))(int column)            Get the designated column's table's schema. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getSchemas**](http://docs.google.com/java/sql/DatabaseMetaData.html#getSchemas())()            Retrieves the schema names available in this database. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getSchemas**](http://docs.google.com/java/sql/DatabaseMetaData.html#getSchemas(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schemaPattern)            Retrieves the schema names available in this database. |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getSchemaTerm**](http://docs.google.com/java/sql/DatabaseMetaData.html#getSchemaTerm())()            Retrieves the database vendor's preferred term for "schema". |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getSearchStringEscape**](http://docs.google.com/java/sql/DatabaseMetaData.html#getSearchStringEscape())()            Retrieves the string that can be used to escape wildcard characters. |
| short | **CallableStatement.**[**getShort**](http://docs.google.com/java/sql/CallableStatement.html#getShort(int))(int parameterIndex)            Retrieves the value of the designated JDBC SMALLINT parameter as a short in the Java programming language. |
| short | **ResultSet.**[**getShort**](http://docs.google.com/java/sql/ResultSet.html#getShort(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a short in the Java programming language. |
| short | **CallableStatement.**[**getShort**](http://docs.google.com/java/sql/CallableStatement.html#getShort(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC SMALLINT parameter as a short in the Java programming language. |
| short | **ResultSet.**[**getShort**](http://docs.google.com/java/sql/ResultSet.html#getShort(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 short in the Java programming language. |
| | <T extends [Source](http://docs.google.com/javax/xml/transform/Source.html)>  T | | --- | | **SQLXML.**[**getSource**](http://docs.google.com/java/sql/SQLXML.html#getSource(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html)<T> sourceClass)            Returns a Source for reading the XML value designated by this SQLXML instance. |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getSQLKeywords**](http://docs.google.com/java/sql/DatabaseMetaData.html#getSQLKeywords())()            Retrieves a comma-separated list of all of this database's SQL keywords that are NOT also SQL:2003 keywords. |
| int | **DatabaseMetaData.**[**getSQLStateType**](http://docs.google.com/java/sql/DatabaseMetaData.html#getSQLStateType())()            Indicates whether the SQLSTATE returned by SQLException.getSQLState is X/Open (now known as Open Group) SQL CLI or SQL:2003. |
| [String](http://docs.google.com/java/lang/String.html) | **SQLData.**[**getSQLTypeName**](http://docs.google.com/java/sql/SQLData.html#getSQLTypeName())()            Returns the fully-qualified name of the SQL user-defined type that this object represents. |
| [String](http://docs.google.com/java/lang/String.html) | **Struct.**[**getSQLTypeName**](http://docs.google.com/java/sql/Struct.html#getSQLTypeName())()            Retrieves the SQL type name of the SQL structured type that this Struct object represents. |
| [SQLXML](http://docs.google.com/java/sql/SQLXML.html) | **CallableStatement.**[**getSQLXML**](http://docs.google.com/java/sql/CallableStatement.html#getSQLXML(int))(int parameterIndex)            Retrieves the value of the designated SQL XML parameter as a java.sql.SQLXML object in the Java programming language. |
| [SQLXML](http://docs.google.com/java/sql/SQLXML.html) | **ResultSet.**[**getSQLXML**](http://docs.google.com/java/sql/ResultSet.html#getSQLXML(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet as a java.sql.SQLXML object in the Java programming language. |
| [SQLXML](http://docs.google.com/java/sql/SQLXML.html) | **CallableStatement.**[**getSQLXML**](http://docs.google.com/java/sql/CallableStatement.html#getSQLXML(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of the designated SQL XML parameter as a java.sql.SQLXML object in the Java programming language. |
| [SQLXML](http://docs.google.com/java/sql/SQLXML.html) | **ResultSet.**[**getSQLXML**](http://docs.google.com/java/sql/ResultSet.html#getSQLXML(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 as a java.sql.SQLXML object in the Java programming language. |
| [Statement](http://docs.google.com/java/sql/Statement.html) | **ResultSet.**[**getStatement**](http://docs.google.com/java/sql/ResultSet.html#getStatement())()            Retrieves the Statement object that produced this ResultSet object. |
| [String](http://docs.google.com/java/lang/String.html) | **SQLXML.**[**getString**](http://docs.google.com/java/sql/SQLXML.html#getString())()            Returns a string representation of the XML value designated by this SQLXML instance. |
| [String](http://docs.google.com/java/lang/String.html) | **CallableStatement.**[**getString**](http://docs.google.com/java/sql/CallableStatement.html#getString(int))(int parameterIndex)            Retrieves the value of the designated JDBC CHAR, VARCHAR, or LONGVARCHAR parameter as a String in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **ResultSet.**[**getString**](http://docs.google.com/java/sql/ResultSet.html#getString(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a String in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **CallableStatement.**[**getString**](http://docs.google.com/java/sql/CallableStatement.html#getString(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC CHAR, VARCHAR, or LONGVARCHAR parameter as a String in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **ResultSet.**[**getString**](http://docs.google.com/java/sql/ResultSet.html#getString(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 String in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getStringFunctions**](http://docs.google.com/java/sql/DatabaseMetaData.html#getStringFunctions())()            Retrieves a comma-separated list of string functions available with this database. |
| [String](http://docs.google.com/java/lang/String.html) | **Clob.**[**getSubString**](http://docs.google.com/java/sql/Clob.html#getSubString(long,%20int))(long pos, int length)            Retrieves a copy of the specified substring in the CLOB value designated by this Clob object. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getSuperTables**](http://docs.google.com/java/sql/DatabaseMetaData.html#getSuperTables(java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schemaPattern, [String](http://docs.google.com/java/lang/String.html) tableNamePattern)            Retrieves a description of the table hierarchies defined in a particular schema in this database. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getSuperTypes**](http://docs.google.com/java/sql/DatabaseMetaData.html#getSuperTypes(java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schemaPattern, [String](http://docs.google.com/java/lang/String.html) typeNamePattern)            Retrieves a description of the user-defined type (UDT) hierarchies defined in a particular schema in this database. |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getSystemFunctions**](http://docs.google.com/java/sql/DatabaseMetaData.html#getSystemFunctions())()            Retrieves a comma-separated list of system functions available with this database. |
| [String](http://docs.google.com/java/lang/String.html) | **ResultSetMetaData.**[**getTableName**](http://docs.google.com/java/sql/ResultSetMetaData.html#getTableName(int))(int column)            Gets the designated column's table name. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getTablePrivileges**](http://docs.google.com/java/sql/DatabaseMetaData.html#getTablePrivileges(java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schemaPattern, [String](http://docs.google.com/java/lang/String.html) tableNamePattern)            Retrieves a description of the access rights for each table available in a catalog. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getTables**](http://docs.google.com/java/sql/DatabaseMetaData.html#getTables(java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String%5B%5D))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schemaPattern, [String](http://docs.google.com/java/lang/String.html) tableNamePattern, [String](http://docs.google.com/java/lang/String.html)[] types)            Retrieves a description of the tables available in the given catalog. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getTableTypes**](http://docs.google.com/java/sql/DatabaseMetaData.html#getTableTypes())()            Retrieves the table types available in this database. |
| [Time](http://docs.google.com/java/sql/Time.html) | **CallableStatement.**[**getTime**](http://docs.google.com/java/sql/CallableStatement.html#getTime(int))(int parameterIndex)            Retrieves the value of the designated JDBC TIME parameter as a java.sql.Time object. |
| [Time](http://docs.google.com/java/sql/Time.html) | **ResultSet.**[**getTime**](http://docs.google.com/java/sql/ResultSet.html#getTime(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.sql.Time object in the Java programming language. |
| [Time](http://docs.google.com/java/sql/Time.html) | **CallableStatement.**[**getTime**](http://docs.google.com/java/sql/CallableStatement.html#getTime(int,%20java.util.Calendar))(int parameterIndex, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Retrieves the value of the designated JDBC TIME parameter as a java.sql.Time object, using the given Calendar object to construct the time. |
| [Time](http://docs.google.com/java/sql/Time.html) | **ResultSet.**[**getTime**](http://docs.google.com/java/sql/ResultSet.html#getTime(int,%20java.util.Calendar))(int columnIndex, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.sql.Time object in the Java programming language. |
| [Time](http://docs.google.com/java/sql/Time.html) | **CallableStatement.**[**getTime**](http://docs.google.com/java/sql/CallableStatement.html#getTime(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC TIME parameter as a java.sql.Time object. |
| [Time](http://docs.google.com/java/sql/Time.html) | **ResultSet.**[**getTime**](http://docs.google.com/java/sql/ResultSet.html#getTime(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 java.sql.Time object in the Java programming language. |
| [Time](http://docs.google.com/java/sql/Time.html) | **CallableStatement.**[**getTime**](http://docs.google.com/java/sql/CallableStatement.html#getTime(java.lang.String,%20java.util.Calendar))([String](http://docs.google.com/java/lang/String.html) parameterName, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Retrieves the value of a JDBC TIME parameter as a java.sql.Time object, using the given Calendar object to construct the time. |
| [Time](http://docs.google.com/java/sql/Time.html) | **ResultSet.**[**getTime**](http://docs.google.com/java/sql/ResultSet.html#getTime(java.lang.String,%20java.util.Calendar))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.sql.Time object in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getTimeDateFunctions**](http://docs.google.com/java/sql/DatabaseMetaData.html#getTimeDateFunctions())()            Retrieves a comma-separated list of the time and date functions available with this database. |
| [Timestamp](http://docs.google.com/java/sql/Timestamp.html) | **CallableStatement.**[**getTimestamp**](http://docs.google.com/java/sql/CallableStatement.html#getTimestamp(int))(int parameterIndex)            Retrieves the value of the designated JDBC TIMESTAMP parameter as a java.sql.Timestamp object. |
| [Timestamp](http://docs.google.com/java/sql/Timestamp.html) | **ResultSet.**[**getTimestamp**](http://docs.google.com/java/sql/ResultSet.html#getTimestamp(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.sql.Timestamp object in the Java programming language. |
| [Timestamp](http://docs.google.com/java/sql/Timestamp.html) | **CallableStatement.**[**getTimestamp**](http://docs.google.com/java/sql/CallableStatement.html#getTimestamp(int,%20java.util.Calendar))(int parameterIndex, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Retrieves the value of the designated JDBC TIMESTAMP parameter as a java.sql.Timestamp object, using the given Calendar object to construct the Timestamp object. |
| [Timestamp](http://docs.google.com/java/sql/Timestamp.html) | **ResultSet.**[**getTimestamp**](http://docs.google.com/java/sql/ResultSet.html#getTimestamp(int,%20java.util.Calendar))(int columnIndex, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.sql.Timestamp object in the Java programming language. |
| [Timestamp](http://docs.google.com/java/sql/Timestamp.html) | **CallableStatement.**[**getTimestamp**](http://docs.google.com/java/sql/CallableStatement.html#getTimestamp(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC TIMESTAMP parameter as a java.sql.Timestamp object. |
| [Timestamp](http://docs.google.com/java/sql/Timestamp.html) | **ResultSet.**[**getTimestamp**](http://docs.google.com/java/sql/ResultSet.html#getTimestamp(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 java.sql.Timestamp object in the Java programming language. |
| [Timestamp](http://docs.google.com/java/sql/Timestamp.html) | **CallableStatement.**[**getTimestamp**](http://docs.google.com/java/sql/CallableStatement.html#getTimestamp(java.lang.String,%20java.util.Calendar))([String](http://docs.google.com/java/lang/String.html) parameterName, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Retrieves the value of a JDBC TIMESTAMP parameter as a java.sql.Timestamp object, using the given Calendar object to construct the Timestamp object. |
| [Timestamp](http://docs.google.com/java/sql/Timestamp.html) | **ResultSet.**[**getTimestamp**](http://docs.google.com/java/sql/ResultSet.html#getTimestamp(java.lang.String,%20java.util.Calendar))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.sql.Timestamp object in the Java programming language. |
| int | **Connection.**[**getTransactionIsolation**](http://docs.google.com/java/sql/Connection.html#getTransactionIsolation())()            Retrieves this Connection object's current transaction isolation level. |
| int | **ResultSet.**[**getType**](http://docs.google.com/java/sql/ResultSet.html#getType())()            Retrieves the type of this ResultSet object. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getTypeInfo**](http://docs.google.com/java/sql/DatabaseMetaData.html#getTypeInfo())()            Retrieves a description of all the data types supported by this database. |
| [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> | **Connection.**[**getTypeMap**](http://docs.google.com/java/sql/Connection.html#getTypeMap())()            Retrieves the Map object associated with this Connection object. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getUDTs**](http://docs.google.com/java/sql/DatabaseMetaData.html#getUDTs(java.lang.String,%20java.lang.String,%20java.lang.String,%20int%5B%5D))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schemaPattern, [String](http://docs.google.com/java/lang/String.html) typeNamePattern, int[] types)            Retrieves a description of the user-defined types (UDTs) defined in a particular schema. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **ResultSet.**[**getUnicodeStream**](http://docs.google.com/java/sql/ResultSet.html#getUnicodeStream(int))(int columnIndex)  **Deprecated.** *use getCharacterStream in place of getUnicodeStream* |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **ResultSet.**[**getUnicodeStream**](http://docs.google.com/java/sql/ResultSet.html#getUnicodeStream(java.lang.String))([String](http://docs.google.com/java/lang/String.html) columnLabel)  **Deprecated.** *use getCharacterStream instead* |
| int | **Statement.**[**getUpdateCount**](http://docs.google.com/java/sql/Statement.html#getUpdateCount())()            Retrieves the current result as an update count; if the result is a ResultSet object or there are no more results, -1 is returned. |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getURL**](http://docs.google.com/java/sql/DatabaseMetaData.html#getURL())()            Retrieves the URL for this DBMS. |
| [URL](http://docs.google.com/java/net/URL.html) | **CallableStatement.**[**getURL**](http://docs.google.com/java/sql/CallableStatement.html#getURL(int))(int parameterIndex)            Retrieves the value of the designated JDBC DATALINK parameter as a java.net.URL object. |
| [URL](http://docs.google.com/java/net/URL.html) | **ResultSet.**[**getURL**](http://docs.google.com/java/sql/ResultSet.html#getURL(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.net.URL object in the Java programming language. |
| [URL](http://docs.google.com/java/net/URL.html) | **CallableStatement.**[**getURL**](http://docs.google.com/java/sql/CallableStatement.html#getURL(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC DATALINK parameter as a java.net.URL object. |
| [URL](http://docs.google.com/java/net/URL.html) | **ResultSet.**[**getURL**](http://docs.google.com/java/sql/ResultSet.html#getURL(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 java.net.URL object in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **DatabaseMetaData.**[**getUserName**](http://docs.google.com/java/sql/DatabaseMetaData.html#getUserName())()            Retrieves the user name as known to this database. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **DatabaseMetaData.**[**getVersionColumns**](http://docs.google.com/java/sql/DatabaseMetaData.html#getVersionColumns(java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog, [String](http://docs.google.com/java/lang/String.html) schema, [String](http://docs.google.com/java/lang/String.html) table)            Retrieves a description of a table's columns that are automatically updated when any value in a row is updated. |
| [SQLWarning](http://docs.google.com/java/sql/SQLWarning.html) | **Connection.**[**getWarnings**](http://docs.google.com/java/sql/Connection.html#getWarnings())()            Retrieves the first warning reported by calls on this Connection object. |
| [SQLWarning](http://docs.google.com/java/sql/SQLWarning.html) | **Statement.**[**getWarnings**](http://docs.google.com/java/sql/Statement.html#getWarnings())()            Retrieves the first warning reported by calls on this Statement object. |
| [SQLWarning](http://docs.google.com/java/sql/SQLWarning.html) | **ResultSet.**[**getWarnings**](http://docs.google.com/java/sql/ResultSet.html#getWarnings())()            Retrieves the first warning reported by calls on this ResultSet object. |
| void | **ResultSet.**[**insertRow**](http://docs.google.com/java/sql/ResultSet.html#insertRow())()            Inserts the contents of the insert row into this ResultSet object and into the database. |
| boolean | **DatabaseMetaData.**[**insertsAreDetected**](http://docs.google.com/java/sql/DatabaseMetaData.html#insertsAreDetected(int))(int type)            Retrieves whether or not a visible row insert can be detected by calling the method ResultSet.rowInserted. |
| boolean | **ResultSet.**[**isAfterLast**](http://docs.google.com/java/sql/ResultSet.html#isAfterLast())()            Retrieves whether the cursor is after the last row in this ResultSet object. |
| boolean | **ResultSetMetaData.**[**isAutoIncrement**](http://docs.google.com/java/sql/ResultSetMetaData.html#isAutoIncrement(int))(int column)            Indicates whether the designated column is automatically numbered. |
| boolean | **ResultSet.**[**isBeforeFirst**](http://docs.google.com/java/sql/ResultSet.html#isBeforeFirst())()            Retrieves whether the cursor is before the first row in this ResultSet object. |
| boolean | **ResultSetMetaData.**[**isCaseSensitive**](http://docs.google.com/java/sql/ResultSetMetaData.html#isCaseSensitive(int))(int column)            Indicates whether a column's case matters. |
| boolean | **DatabaseMetaData.**[**isCatalogAtStart**](http://docs.google.com/java/sql/DatabaseMetaData.html#isCatalogAtStart())()            Retrieves whether a catalog appears at the start of a fully qualified table name. |
| boolean | **Connection.**[**isClosed**](http://docs.google.com/java/sql/Connection.html#isClosed())()            Retrieves whether this Connection object has been closed. |
| boolean | **Statement.**[**isClosed**](http://docs.google.com/java/sql/Statement.html#isClosed())()            Retrieves whether this Statement object has been closed. |
| boolean | **ResultSet.**[**isClosed**](http://docs.google.com/java/sql/ResultSet.html#isClosed())()            Retrieves whether this ResultSet object has been closed. |
| boolean | **ResultSetMetaData.**[**isCurrency**](http://docs.google.com/java/sql/ResultSetMetaData.html#isCurrency(int))(int column)            Indicates whether the designated column is a cash value. |
| boolean | **ResultSetMetaData.**[**isDefinitelyWritable**](http://docs.google.com/java/sql/ResultSetMetaData.html#isDefinitelyWritable(int))(int column)            Indicates whether a write on the designated column will definitely succeed. |
| boolean | **ResultSet.**[**isFirst**](http://docs.google.com/java/sql/ResultSet.html#isFirst())()            Retrieves whether the cursor is on the first row of this ResultSet object. |
| boolean | **ResultSet.**[**isLast**](http://docs.google.com/java/sql/ResultSet.html#isLast())()            Retrieves whether the cursor is on the last row of this ResultSet object. |
| int | **ParameterMetaData.**[**isNullable**](http://docs.google.com/java/sql/ParameterMetaData.html#isNullable(int))(int param)            Retrieves whether null values are allowed in the designated parameter. |
| int | **ResultSetMetaData.**[**isNullable**](http://docs.google.com/java/sql/ResultSetMetaData.html#isNullable(int))(int column)            Indicates the nullability of values in the designated column. |
| boolean | **Statement.**[**isPoolable**](http://docs.google.com/java/sql/Statement.html#isPoolable())()            Returns a value indicating whether the Statement is poolable or not. |
| boolean | **DatabaseMetaData.**[**isReadOnly**](http://docs.google.com/java/sql/DatabaseMetaData.html#isReadOnly())()            Retrieves whether this database is in read-only mode. |
| boolean | **Connection.**[**isReadOnly**](http://docs.google.com/java/sql/Connection.html#isReadOnly())()            Retrieves whether this Connection object is in read-only mode. |
| boolean | **ResultSetMetaData.**[**isReadOnly**](http://docs.google.com/java/sql/ResultSetMetaData.html#isReadOnly(int))(int column)            Indicates whether the designated column is definitely not writable. |
| boolean | **ResultSetMetaData.**[**isSearchable**](http://docs.google.com/java/sql/ResultSetMetaData.html#isSearchable(int))(int column)            Indicates whether the designated column can be used in a where clause. |
| boolean | **ParameterMetaData.**[**isSigned**](http://docs.google.com/java/sql/ParameterMetaData.html#isSigned(int))(int param)            Retrieves whether values for the designated parameter can be signed numbers. |
| boolean | **ResultSetMetaData.**[**isSigned**](http://docs.google.com/java/sql/ResultSetMetaData.html#isSigned(int))(int column)            Indicates whether values in the designated column are signed numbers. |
| boolean | **Connection.**[**isValid**](http://docs.google.com/java/sql/Connection.html#isValid(int))(int timeout)            Returns true if the connection has not been closed and is still valid. |
| boolean | **Wrapper.**[**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. |
| boolean | **ResultSetMetaData.**[**isWritable**](http://docs.google.com/java/sql/ResultSetMetaData.html#isWritable(int))(int column)            Indicates whether it is possible for a write on the designated column to succeed. |
| boolean | **ResultSet.**[**last**](http://docs.google.com/java/sql/ResultSet.html#last())()            Moves the cursor to the last row in this ResultSet object. |
| long | **Clob.**[**length**](http://docs.google.com/java/sql/Clob.html#length())()            Retrieves the number of characters in the CLOB value designated by this Clob object. |
| long | **Blob.**[**length**](http://docs.google.com/java/sql/Blob.html#length())()            Returns the number of bytes in the BLOB value designated by this Blob object. |
| boolean | **DatabaseMetaData.**[**locatorsUpdateCopy**](http://docs.google.com/java/sql/DatabaseMetaData.html#locatorsUpdateCopy())()            Indicates whether updates made to a LOB are made on a copy or directly to the LOB. |
| void | **ResultSet.**[**moveToCurrentRow**](http://docs.google.com/java/sql/ResultSet.html#moveToCurrentRow())()            Moves the cursor to the remembered cursor position, usually the current row. |
| void | **ResultSet.**[**moveToInsertRow**](http://docs.google.com/java/sql/ResultSet.html#moveToInsertRow())()            Moves the cursor to the insert row. |
| [String](http://docs.google.com/java/lang/String.html) | **Connection.**[**nativeSQL**](http://docs.google.com/java/sql/Connection.html#nativeSQL(java.lang.String))([String](http://docs.google.com/java/lang/String.html) sql)            Converts the given SQL statement into the system's native SQL grammar. |
| boolean | **ResultSet.**[**next**](http://docs.google.com/java/sql/ResultSet.html#next())()            Moves the cursor froward one row from its current position. |
| boolean | **DatabaseMetaData.**[**nullPlusNonNullIsNull**](http://docs.google.com/java/sql/DatabaseMetaData.html#nullPlusNonNullIsNull())()            Retrieves whether this database supports concatenations between NULL and non-NULL values being NULL. |
| boolean | **DatabaseMetaData.**[**nullsAreSortedAtEnd**](http://docs.google.com/java/sql/DatabaseMetaData.html#nullsAreSortedAtEnd())()            Retrieves whether NULL values are sorted at the end regardless of sort order. |
| boolean | **DatabaseMetaData.**[**nullsAreSortedAtStart**](http://docs.google.com/java/sql/DatabaseMetaData.html#nullsAreSortedAtStart())()            Retrieves whether NULL values are sorted at the start regardless of sort order. |
| boolean | **DatabaseMetaData.**[**nullsAreSortedHigh**](http://docs.google.com/java/sql/DatabaseMetaData.html#nullsAreSortedHigh())()            Retrieves whether NULL values are sorted high. |
| boolean | **DatabaseMetaData.**[**nullsAreSortedLow**](http://docs.google.com/java/sql/DatabaseMetaData.html#nullsAreSortedLow())()            Retrieves whether NULL values are sorted low. |
| boolean | **DatabaseMetaData.**[**othersDeletesAreVisible**](http://docs.google.com/java/sql/DatabaseMetaData.html#othersDeletesAreVisible(int))(int type)            Retrieves whether deletes made by others are visible. |
| boolean | **DatabaseMetaData.**[**othersInsertsAreVisible**](http://docs.google.com/java/sql/DatabaseMetaData.html#othersInsertsAreVisible(int))(int type)            Retrieves whether inserts made by others are visible. |
| boolean | **DatabaseMetaData.**[**othersUpdatesAreVisible**](http://docs.google.com/java/sql/DatabaseMetaData.html#othersUpdatesAreVisible(int))(int type)            Retrieves whether updates made by others are visible. |
| boolean | **DatabaseMetaData.**[**ownDeletesAreVisible**](http://docs.google.com/java/sql/DatabaseMetaData.html#ownDeletesAreVisible(int))(int type)            Retrieves whether a result set's own deletes are visible. |
| boolean | **DatabaseMetaData.**[**ownInsertsAreVisible**](http://docs.google.com/java/sql/DatabaseMetaData.html#ownInsertsAreVisible(int))(int type)            Retrieves whether a result set's own inserts are visible. |
| boolean | **DatabaseMetaData.**[**ownUpdatesAreVisible**](http://docs.google.com/java/sql/DatabaseMetaData.html#ownUpdatesAreVisible(int))(int type)            Retrieves whether for the given type of ResultSet object, the result set's own updates are visible. |
| long | **Blob.**[**position**](http://docs.google.com/java/sql/Blob.html#position(java.sql.Blob,%20long))([Blob](http://docs.google.com/java/sql/Blob.html) pattern, long start)            Retrieves the byte position in the BLOB value designated by this Blob object at which pattern begins. |
| long | **Blob.**[**position**](http://docs.google.com/java/sql/Blob.html#position(byte%5B%5D,%20long))(byte[] pattern, long start)            Retrieves the byte position at which the specified byte array pattern begins within the BLOB value that this Blob object represents. |
| long | **Clob.**[**position**](http://docs.google.com/java/sql/Clob.html#position(java.sql.Clob,%20long))([Clob](http://docs.google.com/java/sql/Clob.html) searchstr, long start)            Retrieves the character position at which the specified Clob object searchstr appears in this Clob object. |
| long | **Clob.**[**position**](http://docs.google.com/java/sql/Clob.html#position(java.lang.String,%20long))([String](http://docs.google.com/java/lang/String.html) searchstr, long start)            Retrieves the character position at which the specified substring searchstr appears in the SQL CLOB value represented by this Clob object. |
| [CallableStatement](http://docs.google.com/java/sql/CallableStatement.html) | **Connection.**[**prepareCall**](http://docs.google.com/java/sql/Connection.html#prepareCall(java.lang.String))([String](http://docs.google.com/java/lang/String.html) sql)            Creates a CallableStatement object for calling database stored procedures. |
| [CallableStatement](http://docs.google.com/java/sql/CallableStatement.html) | **Connection.**[**prepareCall**](http://docs.google.com/java/sql/Connection.html#prepareCall(java.lang.String,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) sql, int resultSetType, int resultSetConcurrency)            Creates a CallableStatement object that will generate ResultSet objects with the given type and concurrency. |
| [CallableStatement](http://docs.google.com/java/sql/CallableStatement.html) | **Connection.**[**prepareCall**](http://docs.google.com/java/sql/Connection.html#prepareCall(java.lang.String,%20int,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) sql, int resultSetType, int resultSetConcurrency, int resultSetHoldability)            Creates a CallableStatement object that will generate ResultSet objects with the given type and concurrency. |
| [PreparedStatement](http://docs.google.com/java/sql/PreparedStatement.html) | **Connection.**[**prepareStatement**](http://docs.google.com/java/sql/Connection.html#prepareStatement(java.lang.String))([String](http://docs.google.com/java/lang/String.html) sql)            Creates a PreparedStatement object for sending parameterized SQL statements to the database. |
| [PreparedStatement](http://docs.google.com/java/sql/PreparedStatement.html) | **Connection.**[**prepareStatement**](http://docs.google.com/java/sql/Connection.html#prepareStatement(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) sql, int autoGeneratedKeys)            Creates a default PreparedStatement object that has the capability to retrieve auto-generated keys. |
| [PreparedStatement](http://docs.google.com/java/sql/PreparedStatement.html) | **Connection.**[**prepareStatement**](http://docs.google.com/java/sql/Connection.html#prepareStatement(java.lang.String,%20int%5B%5D))([String](http://docs.google.com/java/lang/String.html) sql, int[] columnIndexes)            Creates a default PreparedStatement object capable of returning the auto-generated keys designated by the given array. |
| [PreparedStatement](http://docs.google.com/java/sql/PreparedStatement.html) | **Connection.**[**prepareStatement**](http://docs.google.com/java/sql/Connection.html#prepareStatement(java.lang.String,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) sql, int resultSetType, int resultSetConcurrency)            Creates a PreparedStatement object that will generate ResultSet objects with the given type and concurrency. |
| [PreparedStatement](http://docs.google.com/java/sql/PreparedStatement.html) | **Connection.**[**prepareStatement**](http://docs.google.com/java/sql/Connection.html#prepareStatement(java.lang.String,%20int,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) sql, int resultSetType, int resultSetConcurrency, int resultSetHoldability)            Creates a PreparedStatement object that will generate ResultSet objects with the given type, concurrency, and holdability. |
| [PreparedStatement](http://docs.google.com/java/sql/PreparedStatement.html) | **Connection.**[**prepareStatement**](http://docs.google.com/java/sql/Connection.html#prepareStatement(java.lang.String,%20java.lang.String%5B%5D))([String](http://docs.google.com/java/lang/String.html) sql, [String](http://docs.google.com/java/lang/String.html)[] columnNames)            Creates a default PreparedStatement object capable of returning the auto-generated keys designated by the given array. |
| boolean | **ResultSet.**[**previous**](http://docs.google.com/java/sql/ResultSet.html#previous())()            Moves the cursor to the previous row in this ResultSet object. |
| [Array](http://docs.google.com/java/sql/Array.html) | **SQLInput.**[**readArray**](http://docs.google.com/java/sql/SQLInput.html#readArray())()            Reads an SQL ARRAY value from the stream and returns it as an Array object in the Java programming language. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **SQLInput.**[**readAsciiStream**](http://docs.google.com/java/sql/SQLInput.html#readAsciiStream())()            Reads the next attribute in the stream and returns it as a stream of ASCII characters. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **SQLInput.**[**readBigDecimal**](http://docs.google.com/java/sql/SQLInput.html#readBigDecimal())()            Reads the next attribute in the stream and returns it as a java.math.BigDecimal object in the Java programming language. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **SQLInput.**[**readBinaryStream**](http://docs.google.com/java/sql/SQLInput.html#readBinaryStream())()            Reads the next attribute in the stream and returns it as a stream of uninterpreted bytes. |
| [Blob](http://docs.google.com/java/sql/Blob.html) | **SQLInput.**[**readBlob**](http://docs.google.com/java/sql/SQLInput.html#readBlob())()            Reads an SQL BLOB value from the stream and returns it as a Blob object in the Java programming language. |
| boolean | **SQLInput.**[**readBoolean**](http://docs.google.com/java/sql/SQLInput.html#readBoolean())()            Reads the next attribute in the stream and returns it as a boolean in the Java programming language. |
| byte | **SQLInput.**[**readByte**](http://docs.google.com/java/sql/SQLInput.html#readByte())()            Reads the next attribute in the stream and returns it as a byte in the Java programming language. |
| byte[] | **SQLInput.**[**readBytes**](http://docs.google.com/java/sql/SQLInput.html#readBytes())()            Reads the next attribute in the stream and returns it as an array of bytes in the Java programming language. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **SQLInput.**[**readCharacterStream**](http://docs.google.com/java/sql/SQLInput.html#readCharacterStream())()            Reads the next attribute in the stream and returns it as a stream of Unicode characters. |
| [Clob](http://docs.google.com/java/sql/Clob.html) | **SQLInput.**[**readClob**](http://docs.google.com/java/sql/SQLInput.html#readClob())()            Reads an SQL CLOB value from the stream and returns it as a Clob object in the Java programming language. |
| [Date](http://docs.google.com/java/sql/Date.html) | **SQLInput.**[**readDate**](http://docs.google.com/java/sql/SQLInput.html#readDate())()            Reads the next attribute in the stream and returns it as a java.sql.Date object. |
| double | **SQLInput.**[**readDouble**](http://docs.google.com/java/sql/SQLInput.html#readDouble())()            Reads the next attribute in the stream and returns it as a double in the Java programming language. |
| float | **SQLInput.**[**readFloat**](http://docs.google.com/java/sql/SQLInput.html#readFloat())()            Reads the next attribute in the stream and returns it as a float in the Java programming language. |
| int | **SQLInput.**[**readInt**](http://docs.google.com/java/sql/SQLInput.html#readInt())()            Reads the next attribute in the stream and returns it as an int in the Java programming language. |
| long | **SQLInput.**[**readLong**](http://docs.google.com/java/sql/SQLInput.html#readLong())()            Reads the next attribute in the stream and returns it as a long in the Java programming language. |
| [NClob](http://docs.google.com/java/sql/NClob.html) | **SQLInput.**[**readNClob**](http://docs.google.com/java/sql/SQLInput.html#readNClob())()            Reads an SQL NCLOB value from the stream and returns it as a NClob object in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **SQLInput.**[**readNString**](http://docs.google.com/java/sql/SQLInput.html#readNString())()            Reads the next attribute in the stream and returns it as a String in the Java programming language. |
| [Object](http://docs.google.com/java/lang/Object.html) | **SQLInput.**[**readObject**](http://docs.google.com/java/sql/SQLInput.html#readObject())()            Reads the datum at the head of the stream and returns it as an 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. |
| [RowId](http://docs.google.com/java/sql/RowId.html) | **SQLInput.**[**readRowId**](http://docs.google.com/java/sql/SQLInput.html#readRowId())()            Reads an SQL ROWID value from the stream and returns it as a RowId object in the Java programming language. |
| short | **SQLInput.**[**readShort**](http://docs.google.com/java/sql/SQLInput.html#readShort())()            Reads the next attribute in the stream and returns it as a short in the Java programming language. |
| void | **SQLData.**[**readSQL**](http://docs.google.com/java/sql/SQLData.html#readSQL(java.sql.SQLInput,%20java.lang.String))([SQLInput](http://docs.google.com/java/sql/SQLInput.html) stream, [String](http://docs.google.com/java/lang/String.html) typeName)            Populates this object with data read from the database. |
| [SQLXML](http://docs.google.com/java/sql/SQLXML.html) | **SQLInput.**[**readSQLXML**](http://docs.google.com/java/sql/SQLInput.html#readSQLXML())()            Reads an SQL XML value from the stream and returns it as a SQLXML object in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **SQLInput.**[**readString**](http://docs.google.com/java/sql/SQLInput.html#readString())()            Reads the next attribute in the stream and returns it as a String in the Java programming language. |
| [Time](http://docs.google.com/java/sql/Time.html) | **SQLInput.**[**readTime**](http://docs.google.com/java/sql/SQLInput.html#readTime())()            Reads the next attribute in the stream and returns it as a java.sql.Time object. |
| [Timestamp](http://docs.google.com/java/sql/Timestamp.html) | **SQLInput.**[**readTimestamp**](http://docs.google.com/java/sql/SQLInput.html#readTimestamp())()            Reads the next attribute in the stream and returns it as a java.sql.Timestamp object. |
| [URL](http://docs.google.com/java/net/URL.html) | **SQLInput.**[**readURL**](http://docs.google.com/java/sql/SQLInput.html#readURL())()            Reads an SQL DATALINK value from the stream and returns it as a java.net.URL object in the Java programming language. |
| void | **ResultSet.**[**refreshRow**](http://docs.google.com/java/sql/ResultSet.html#refreshRow())()            Refreshes the current row with its most recent value in the database. |
| static void | **DriverManager.**[**registerDriver**](http://docs.google.com/java/sql/DriverManager.html#registerDriver(java.sql.Driver))([Driver](http://docs.google.com/java/sql/Driver.html) driver)            Registers the given driver with the DriverManager. |
| void | **CallableStatement.**[**registerOutParameter**](http://docs.google.com/java/sql/CallableStatement.html#registerOutParameter(int,%20int))(int parameterIndex, int sqlType)            Registers the OUT parameter in ordinal position parameterIndex to the JDBC type sqlType. |
| void | **CallableStatement.**[**registerOutParameter**](http://docs.google.com/java/sql/CallableStatement.html#registerOutParameter(int,%20int,%20int))(int parameterIndex, int sqlType, int scale)            Registers the parameter in ordinal position parameterIndex to be of JDBC type sqlType. |
| void | **CallableStatement.**[**registerOutParameter**](http://docs.google.com/java/sql/CallableStatement.html#registerOutParameter(int,%20int,%20java.lang.String))(int parameterIndex, int sqlType, [String](http://docs.google.com/java/lang/String.html) typeName)            Registers the designated output parameter. |
| void | **CallableStatement.**[**registerOutParameter**](http://docs.google.com/java/sql/CallableStatement.html#registerOutParameter(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, int sqlType)            Registers the OUT parameter named parameterName to the JDBC type sqlType. |
| void | **CallableStatement.**[**registerOutParameter**](http://docs.google.com/java/sql/CallableStatement.html#registerOutParameter(java.lang.String,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, int sqlType, int scale)            Registers the parameter named parameterName to be of JDBC type sqlType. |
| void | **CallableStatement.**[**registerOutParameter**](http://docs.google.com/java/sql/CallableStatement.html#registerOutParameter(java.lang.String,%20int,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName, int sqlType, [String](http://docs.google.com/java/lang/String.html) typeName)            Registers the designated output parameter. |
| boolean | **ResultSet.**[**relative**](http://docs.google.com/java/sql/ResultSet.html#relative(int))(int rows)            Moves the cursor a relative number of rows, either positive or negative. |
| void | **Connection.**[**releaseSavepoint**](http://docs.google.com/java/sql/Connection.html#releaseSavepoint(java.sql.Savepoint))([Savepoint](http://docs.google.com/java/sql/Savepoint.html) savepoint)            Removes the specified Savepoint and subsequent Savepoint objects from the current transaction. |
| void | **Connection.**[**rollback**](http://docs.google.com/java/sql/Connection.html#rollback())()            Undoes all changes made in the current transaction and releases any database locks currently held by this Connection object. |
| void | **Connection.**[**rollback**](http://docs.google.com/java/sql/Connection.html#rollback(java.sql.Savepoint))([Savepoint](http://docs.google.com/java/sql/Savepoint.html) savepoint)            Undoes all changes made after the given Savepoint object was set. |
| boolean | **ResultSet.**[**rowDeleted**](http://docs.google.com/java/sql/ResultSet.html#rowDeleted())()            Retrieves whether a row has been deleted. |
| boolean | **ResultSet.**[**rowInserted**](http://docs.google.com/java/sql/ResultSet.html#rowInserted())()            Retrieves whether the current row has had an insertion. |
| boolean | **ResultSet.**[**rowUpdated**](http://docs.google.com/java/sql/ResultSet.html#rowUpdated())()            Retrieves whether the current row has been updated. |
| void | **PreparedStatement.**[**setArray**](http://docs.google.com/java/sql/PreparedStatement.html#setArray(int,%20java.sql.Array))(int parameterIndex, [Array](http://docs.google.com/java/sql/Array.html) x)            Sets the designated parameter to the given java.sql.Array object. |
| void | **PreparedStatement.**[**setAsciiStream**](http://docs.google.com/java/sql/PreparedStatement.html#setAsciiStream(int,%20java.io.InputStream))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Sets the designated parameter to the given input stream. |
| void | **PreparedStatement.**[**setAsciiStream**](http://docs.google.com/java/sql/PreparedStatement.html#setAsciiStream(int,%20java.io.InputStream,%20int))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Sets the designated parameter to the given input stream, which will have the specified number of bytes. |
| void | **PreparedStatement.**[**setAsciiStream**](http://docs.google.com/java/sql/PreparedStatement.html#setAsciiStream(int,%20java.io.InputStream,%20long))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x, long length)            Sets the designated parameter to the given input stream, which will have the specified number of bytes. |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **Clob.**[**setAsciiStream**](http://docs.google.com/java/sql/Clob.html#setAsciiStream(long))(long pos)            Retrieves a stream to be used to write Ascii characters to the CLOB value that this Clob object represents, starting at position pos. |
| void | **CallableStatement.**[**setAsciiStream**](http://docs.google.com/java/sql/CallableStatement.html#setAsciiStream(java.lang.String,%20java.io.InputStream))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Sets the designated parameter to the given input stream. |
| void | **CallableStatement.**[**setAsciiStream**](http://docs.google.com/java/sql/CallableStatement.html#setAsciiStream(java.lang.String,%20java.io.InputStream,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Sets the designated parameter to the given input stream, which will have the specified number of bytes. |
| void | **CallableStatement.**[**setAsciiStream**](http://docs.google.com/java/sql/CallableStatement.html#setAsciiStream(java.lang.String,%20java.io.InputStream,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) x, long length)            Sets the designated parameter to the given input stream, which will have the specified number of bytes. |
| void | **Connection.**[**setAutoCommit**](http://docs.google.com/java/sql/Connection.html#setAutoCommit(boolean))(boolean autoCommit)            Sets this connection's auto-commit mode to the given state. |
| void | **PreparedStatement.**[**setBigDecimal**](http://docs.google.com/java/sql/PreparedStatement.html#setBigDecimal(int,%20java.math.BigDecimal))(int parameterIndex, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Sets the designated parameter to the given java.math.BigDecimal value. |
| void | **CallableStatement.**[**setBigDecimal**](http://docs.google.com/java/sql/CallableStatement.html#setBigDecimal(java.lang.String,%20java.math.BigDecimal))([String](http://docs.google.com/java/lang/String.html) parameterName, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Sets the designated parameter to the given java.math.BigDecimal value. |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **SQLXML.**[**setBinaryStream**](http://docs.google.com/java/sql/SQLXML.html#setBinaryStream())()            Retrieves a stream that can be used to write the XML value that this SQLXML instance represents. |
| void | **PreparedStatement.**[**setBinaryStream**](http://docs.google.com/java/sql/PreparedStatement.html#setBinaryStream(int,%20java.io.InputStream))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Sets the designated parameter to the given input stream. |
| void | **PreparedStatement.**[**setBinaryStream**](http://docs.google.com/java/sql/PreparedStatement.html#setBinaryStream(int,%20java.io.InputStream,%20int))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Sets the designated parameter to the given input stream, which will have the specified number of bytes. |
| void | **PreparedStatement.**[**setBinaryStream**](http://docs.google.com/java/sql/PreparedStatement.html#setBinaryStream(int,%20java.io.InputStream,%20long))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x, long length)            Sets the designated parameter to the given input stream, which will have the specified number of bytes. |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **Blob.**[**setBinaryStream**](http://docs.google.com/java/sql/Blob.html#setBinaryStream(long))(long pos)            Retrieves a stream that can be used to write to the BLOB value that this Blob object represents. |
| void | **CallableStatement.**[**setBinaryStream**](http://docs.google.com/java/sql/CallableStatement.html#setBinaryStream(java.lang.String,%20java.io.InputStream))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Sets the designated parameter to the given input stream. |
| void | **CallableStatement.**[**setBinaryStream**](http://docs.google.com/java/sql/CallableStatement.html#setBinaryStream(java.lang.String,%20java.io.InputStream,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Sets the designated parameter to the given input stream, which will have the specified number of bytes. |
| void | **CallableStatement.**[**setBinaryStream**](http://docs.google.com/java/sql/CallableStatement.html#setBinaryStream(java.lang.String,%20java.io.InputStream,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) x, long length)            Sets the designated parameter to the given input stream, which will have the specified number of bytes. |
| void | **PreparedStatement.**[**setBlob**](http://docs.google.com/java/sql/PreparedStatement.html#setBlob(int,%20java.sql.Blob))(int parameterIndex, [Blob](http://docs.google.com/java/sql/Blob.html) x)            Sets the designated parameter to the given java.sql.Blob object. |
| void | **PreparedStatement.**[**setBlob**](http://docs.google.com/java/sql/PreparedStatement.html#setBlob(int,%20java.io.InputStream))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream)            Sets the designated parameter to a InputStream object. |
| void | **PreparedStatement.**[**setBlob**](http://docs.google.com/java/sql/PreparedStatement.html#setBlob(int,%20java.io.InputStream,%20long))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream, long length)            Sets the designated parameter to a InputStream object. |
| void | **CallableStatement.**[**setBlob**](http://docs.google.com/java/sql/CallableStatement.html#setBlob(java.lang.String,%20java.sql.Blob))([String](http://docs.google.com/java/lang/String.html) parameterName, [Blob](http://docs.google.com/java/sql/Blob.html) x)            Sets the designated parameter to the given java.sql.Blob object. |
| void | **CallableStatement.**[**setBlob**](http://docs.google.com/java/sql/CallableStatement.html#setBlob(java.lang.String,%20java.io.InputStream))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream)            Sets the designated parameter to a InputStream object. |
| void | **CallableStatement.**[**setBlob**](http://docs.google.com/java/sql/CallableStatement.html#setBlob(java.lang.String,%20java.io.InputStream,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream, long length)            Sets the designated parameter to a InputStream object. |
| void | **PreparedStatement.**[**setBoolean**](http://docs.google.com/java/sql/PreparedStatement.html#setBoolean(int,%20boolean))(int parameterIndex, boolean x)            Sets the designated parameter to the given Java boolean value. |
| void | **CallableStatement.**[**setBoolean**](http://docs.google.com/java/sql/CallableStatement.html#setBoolean(java.lang.String,%20boolean))([String](http://docs.google.com/java/lang/String.html) parameterName, boolean x)            Sets the designated parameter to the given Java boolean value. |
| void | **PreparedStatement.**[**setByte**](http://docs.google.com/java/sql/PreparedStatement.html#setByte(int,%20byte))(int parameterIndex, byte x)            Sets the designated parameter to the given Java byte value. |
| void | **CallableStatement.**[**setByte**](http://docs.google.com/java/sql/CallableStatement.html#setByte(java.lang.String,%20byte))([String](http://docs.google.com/java/lang/String.html) parameterName, byte x)            Sets the designated parameter to the given Java byte value. |
| void | **PreparedStatement.**[**setBytes**](http://docs.google.com/java/sql/PreparedStatement.html#setBytes(int,%20byte%5B%5D))(int parameterIndex, byte[] x)            Sets the designated parameter to the given Java array of bytes. |
| int | **Blob.**[**setBytes**](http://docs.google.com/java/sql/Blob.html#setBytes(long,%20byte%5B%5D))(long pos, byte[] bytes)            Writes the given array of bytes to the BLOB value that this Blob object represents, starting at position pos, and returns the number of bytes written. |
| int | **Blob.**[**setBytes**](http://docs.google.com/java/sql/Blob.html#setBytes(long,%20byte%5B%5D,%20int,%20int))(long pos, byte[] bytes, int offset, int len)            Writes all or part of the given byte array to the BLOB value that this Blob object represents and returns the number of bytes written. |
| void | **CallableStatement.**[**setBytes**](http://docs.google.com/java/sql/CallableStatement.html#setBytes(java.lang.String,%20byte%5B%5D))([String](http://docs.google.com/java/lang/String.html) parameterName, byte[] x)            Sets the designated parameter to the given Java array of bytes. |
| void | **Connection.**[**setCatalog**](http://docs.google.com/java/sql/Connection.html#setCatalog(java.lang.String))([String](http://docs.google.com/java/lang/String.html) catalog)            Sets the given catalog name in order to select a subspace of this Connection object's database in which to work. |
| [Writer](http://docs.google.com/java/io/Writer.html) | **SQLXML.**[**setCharacterStream**](http://docs.google.com/java/sql/SQLXML.html#setCharacterStream())()            Retrieves a stream to be used to write the XML value that this SQLXML instance represents. |
| void | **PreparedStatement.**[**setCharacterStream**](http://docs.google.com/java/sql/PreparedStatement.html#setCharacterStream(int,%20java.io.Reader))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to the given Reader object. |
| void | **PreparedStatement.**[**setCharacterStream**](http://docs.google.com/java/sql/PreparedStatement.html#setCharacterStream(int,%20java.io.Reader,%20int))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader, int length)            Sets the designated parameter to the given Reader object, which is the given number of characters long. |
| void | **PreparedStatement.**[**setCharacterStream**](http://docs.google.com/java/sql/PreparedStatement.html#setCharacterStream(int,%20java.io.Reader,%20long))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Sets the designated parameter to the given Reader object, which is the given number of characters long. |
| [Writer](http://docs.google.com/java/io/Writer.html) | **Clob.**[**setCharacterStream**](http://docs.google.com/java/sql/Clob.html#setCharacterStream(long))(long pos)            Retrieves a stream to be used to write a stream of Unicode characters to the CLOB value that this Clob object represents, at position pos. |
| void | **CallableStatement.**[**setCharacterStream**](http://docs.google.com/java/sql/CallableStatement.html#setCharacterStream(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to the given Reader object. |
| void | **CallableStatement.**[**setCharacterStream**](http://docs.google.com/java/sql/CallableStatement.html#setCharacterStream(java.lang.String,%20java.io.Reader,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader, int length)            Sets the designated parameter to the given Reader object, which is the given number of characters long. |
| void | **CallableStatement.**[**setCharacterStream**](http://docs.google.com/java/sql/CallableStatement.html#setCharacterStream(java.lang.String,%20java.io.Reader,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Sets the designated parameter to the given Reader object, which is the given number of characters long. |
| void | **PreparedStatement.**[**setClob**](http://docs.google.com/java/sql/PreparedStatement.html#setClob(int,%20java.sql.Clob))(int parameterIndex, [Clob](http://docs.google.com/java/sql/Clob.html) x)            Sets the designated parameter to the given java.sql.Clob object. |
| void | **PreparedStatement.**[**setClob**](http://docs.google.com/java/sql/PreparedStatement.html#setClob(int,%20java.io.Reader))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to a Reader object. |
| void | **PreparedStatement.**[**setClob**](http://docs.google.com/java/sql/PreparedStatement.html#setClob(int,%20java.io.Reader,%20long))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Sets the designated parameter to a Reader object. |
| void | **CallableStatement.**[**setClob**](http://docs.google.com/java/sql/CallableStatement.html#setClob(java.lang.String,%20java.sql.Clob))([String](http://docs.google.com/java/lang/String.html) parameterName, [Clob](http://docs.google.com/java/sql/Clob.html) x)            Sets the designated parameter to the given java.sql.Clob object. |
| void | **CallableStatement.**[**setClob**](http://docs.google.com/java/sql/CallableStatement.html#setClob(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to a Reader object. |
| void | **CallableStatement.**[**setClob**](http://docs.google.com/java/sql/CallableStatement.html#setClob(java.lang.String,%20java.io.Reader,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Sets the designated parameter to a Reader object. |
| void | **Statement.**[**setCursorName**](http://docs.google.com/java/sql/Statement.html#setCursorName(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Sets the SQL cursor name to the given String, which will be used by subsequent Statement object execute methods. |
| void | **PreparedStatement.**[**setDate**](http://docs.google.com/java/sql/PreparedStatement.html#setDate(int,%20java.sql.Date))(int parameterIndex, [Date](http://docs.google.com/java/sql/Date.html) x)            Sets the designated parameter to the given java.sql.Date value using the default time zone of the virtual machine that is running the application. |
| void | **PreparedStatement.**[**setDate**](http://docs.google.com/java/sql/PreparedStatement.html#setDate(int,%20java.sql.Date,%20java.util.Calendar))(int parameterIndex, [Date](http://docs.google.com/java/sql/Date.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter to the given java.sql.Date value, using the given Calendar object. |
| void | **CallableStatement.**[**setDate**](http://docs.google.com/java/sql/CallableStatement.html#setDate(java.lang.String,%20java.sql.Date))([String](http://docs.google.com/java/lang/String.html) parameterName, [Date](http://docs.google.com/java/sql/Date.html) x)            Sets the designated parameter to the given java.sql.Date value using the default time zone of the virtual machine that is running the application. |
| void | **CallableStatement.**[**setDate**](http://docs.google.com/java/sql/CallableStatement.html#setDate(java.lang.String,%20java.sql.Date,%20java.util.Calendar))([String](http://docs.google.com/java/lang/String.html) parameterName, [Date](http://docs.google.com/java/sql/Date.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter to the given java.sql.Date value, using the given Calendar object. |
| void | **PreparedStatement.**[**setDouble**](http://docs.google.com/java/sql/PreparedStatement.html#setDouble(int,%20double))(int parameterIndex, double x)            Sets the designated parameter to the given Java double value. |
| void | **CallableStatement.**[**setDouble**](http://docs.google.com/java/sql/CallableStatement.html#setDouble(java.lang.String,%20double))([String](http://docs.google.com/java/lang/String.html) parameterName, double x)            Sets the designated parameter to the given Java double value. |
| void | **Statement.**[**setEscapeProcessing**](http://docs.google.com/java/sql/Statement.html#setEscapeProcessing(boolean))(boolean enable)            Sets escape processing on or off. |
| void | **Statement.**[**setFetchDirection**](http://docs.google.com/java/sql/Statement.html#setFetchDirection(int))(int direction)            Gives the driver a hint as to the direction in which rows will be processed in ResultSet objects created using this Statement object. |
| void | **ResultSet.**[**setFetchDirection**](http://docs.google.com/java/sql/ResultSet.html#setFetchDirection(int))(int direction)            Gives a hint as to the direction in which the rows in this ResultSet object will be processed. |
| void | **Statement.**[**setFetchSize**](http://docs.google.com/java/sql/Statement.html#setFetchSize(int))(int rows)            Gives the JDBC driver a hint as to the number of rows that should be fetched from the database when more rows are needed for ResultSet objects genrated by this Statement. |
| void | **ResultSet.**[**setFetchSize**](http://docs.google.com/java/sql/ResultSet.html#setFetchSize(int))(int rows)            Gives the JDBC driver a hint as to the number of rows that should be fetched from the database when more rows are needed for this ResultSet object. |
| void | **PreparedStatement.**[**setFloat**](http://docs.google.com/java/sql/PreparedStatement.html#setFloat(int,%20float))(int parameterIndex, float x)            Sets the designated parameter to the given Java float value. |
| void | **CallableStatement.**[**setFloat**](http://docs.google.com/java/sql/CallableStatement.html#setFloat(java.lang.String,%20float))([String](http://docs.google.com/java/lang/String.html) parameterName, float x)            Sets the designated parameter to the given Java float value. |
| void | **Connection.**[**setHoldability**](http://docs.google.com/java/sql/Connection.html#setHoldability(int))(int holdability)            Changes the default holdability of ResultSet objects created using this Connection object to the given holdability. |
| void | **PreparedStatement.**[**setInt**](http://docs.google.com/java/sql/PreparedStatement.html#setInt(int,%20int))(int parameterIndex, int x)            Sets the designated parameter to the given Java int value. |
| void | **CallableStatement.**[**setInt**](http://docs.google.com/java/sql/CallableStatement.html#setInt(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, int x)            Sets the designated parameter to the given Java int value. |
| void | **PreparedStatement.**[**setLong**](http://docs.google.com/java/sql/PreparedStatement.html#setLong(int,%20long))(int parameterIndex, long x)            Sets the designated parameter to the given Java long value. |
| void | **CallableStatement.**[**setLong**](http://docs.google.com/java/sql/CallableStatement.html#setLong(java.lang.String,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, long x)            Sets the designated parameter to the given Java long value. |
| void | **Statement.**[**setMaxFieldSize**](http://docs.google.com/java/sql/Statement.html#setMaxFieldSize(int))(int max)            Sets the limit for the maximum number of bytes that can be returned for character and binary column values in a ResultSet object produced by this Statement object. |
| void | **Statement.**[**setMaxRows**](http://docs.google.com/java/sql/Statement.html#setMaxRows(int))(int max)            Sets the limit for the maximum number of rows that any ResultSet object generated by this Statement object can contain to the given number. |
| void | **PreparedStatement.**[**setNCharacterStream**](http://docs.google.com/java/sql/PreparedStatement.html#setNCharacterStream(int,%20java.io.Reader))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) value)            Sets the designated parameter to a Reader object. |
| void | **PreparedStatement.**[**setNCharacterStream**](http://docs.google.com/java/sql/PreparedStatement.html#setNCharacterStream(int,%20java.io.Reader,%20long))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) value, long length)            Sets the designated parameter to a Reader object. |
| void | **CallableStatement.**[**setNCharacterStream**](http://docs.google.com/java/sql/CallableStatement.html#setNCharacterStream(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) value)            Sets the designated parameter to a Reader object. |
| void | **CallableStatement.**[**setNCharacterStream**](http://docs.google.com/java/sql/CallableStatement.html#setNCharacterStream(java.lang.String,%20java.io.Reader,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) value, long length)            Sets the designated parameter to a Reader object. |
| void | **PreparedStatement.**[**setNClob**](http://docs.google.com/java/sql/PreparedStatement.html#setNClob(int,%20java.sql.NClob))(int parameterIndex, [NClob](http://docs.google.com/java/sql/NClob.html) value)            Sets the designated parameter to a java.sql.NClob object. |
| void | **PreparedStatement.**[**setNClob**](http://docs.google.com/java/sql/PreparedStatement.html#setNClob(int,%20java.io.Reader))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to a Reader object. |
| void | **PreparedStatement.**[**setNClob**](http://docs.google.com/java/sql/PreparedStatement.html#setNClob(int,%20java.io.Reader,%20long))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Sets the designated parameter to a Reader object. |
| void | **CallableStatement.**[**setNClob**](http://docs.google.com/java/sql/CallableStatement.html#setNClob(java.lang.String,%20java.sql.NClob))([String](http://docs.google.com/java/lang/String.html) parameterName, [NClob](http://docs.google.com/java/sql/NClob.html) value)            Sets the designated parameter to a java.sql.NClob object. |
| void | **CallableStatement.**[**setNClob**](http://docs.google.com/java/sql/CallableStatement.html#setNClob(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to a Reader object. |
| void | **CallableStatement.**[**setNClob**](http://docs.google.com/java/sql/CallableStatement.html#setNClob(java.lang.String,%20java.io.Reader,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Sets the designated parameter to a Reader object. |
| void | **PreparedStatement.**[**setNString**](http://docs.google.com/java/sql/PreparedStatement.html#setNString(int,%20java.lang.String))(int parameterIndex, [String](http://docs.google.com/java/lang/String.html) value)            Sets the designated paramter to the given String object. |
| void | **CallableStatement.**[**setNString**](http://docs.google.com/java/sql/CallableStatement.html#setNString(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName, [String](http://docs.google.com/java/lang/String.html) value)            Sets the designated parameter to the given String object. |
| void | **PreparedStatement.**[**setNull**](http://docs.google.com/java/sql/PreparedStatement.html#setNull(int,%20int))(int parameterIndex, int sqlType)            Sets the designated parameter to SQL NULL. |
| void | **PreparedStatement.**[**setNull**](http://docs.google.com/java/sql/PreparedStatement.html#setNull(int,%20int,%20java.lang.String))(int parameterIndex, int sqlType, [String](http://docs.google.com/java/lang/String.html) typeName)            Sets the designated parameter to SQL NULL. |
| void | **CallableStatement.**[**setNull**](http://docs.google.com/java/sql/CallableStatement.html#setNull(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, int sqlType)            Sets the designated parameter to SQL NULL. |
| void | **CallableStatement.**[**setNull**](http://docs.google.com/java/sql/CallableStatement.html#setNull(java.lang.String,%20int,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName, int sqlType, [String](http://docs.google.com/java/lang/String.html) typeName)            Sets the designated parameter to SQL NULL. |
| void | **PreparedStatement.**[**setObject**](http://docs.google.com/java/sql/PreparedStatement.html#setObject(int,%20java.lang.Object))(int parameterIndex, [Object](http://docs.google.com/java/lang/Object.html) x)            Sets the value of the designated parameter using the given object. |
| void | **PreparedStatement.**[**setObject**](http://docs.google.com/java/sql/PreparedStatement.html#setObject(int,%20java.lang.Object,%20int))(int parameterIndex, [Object](http://docs.google.com/java/lang/Object.html) x, int targetSqlType)            Sets the value of the designated parameter with the given object. |
| void | **PreparedStatement.**[**setObject**](http://docs.google.com/java/sql/PreparedStatement.html#setObject(int,%20java.lang.Object,%20int,%20int))(int parameterIndex, [Object](http://docs.google.com/java/lang/Object.html) x, int targetSqlType, int scaleOrLength)            Sets the value of the designated parameter with the given object. |
| void | **Ref.**[**setObject**](http://docs.google.com/java/sql/Ref.html#setObject(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) value)            Sets the structured type value that this Ref object references to the given instance of Object. |
| void | **CallableStatement.**[**setObject**](http://docs.google.com/java/sql/CallableStatement.html#setObject(java.lang.String,%20java.lang.Object))([String](http://docs.google.com/java/lang/String.html) parameterName, [Object](http://docs.google.com/java/lang/Object.html) x)            Sets the value of the designated parameter with the given object. |
| void | **CallableStatement.**[**setObject**](http://docs.google.com/java/sql/CallableStatement.html#setObject(java.lang.String,%20java.lang.Object,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, [Object](http://docs.google.com/java/lang/Object.html) x, int targetSqlType)            Sets the value of the designated parameter with the given object. |
| void | **CallableStatement.**[**setObject**](http://docs.google.com/java/sql/CallableStatement.html#setObject(java.lang.String,%20java.lang.Object,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, [Object](http://docs.google.com/java/lang/Object.html) x, int targetSqlType, int scale)            Sets the value of the designated parameter with the given object. |
| void | **Statement.**[**setPoolable**](http://docs.google.com/java/sql/Statement.html#setPoolable(boolean))(boolean poolable)            Requests that a Statement be pooled or not pooled. |
| void | **Statement.**[**setQueryTimeout**](http://docs.google.com/java/sql/Statement.html#setQueryTimeout(int))(int seconds)            Sets the number of seconds the driver will wait for a Statement object to execute to the given number of seconds. |
| void | **Connection.**[**setReadOnly**](http://docs.google.com/java/sql/Connection.html#setReadOnly(boolean))(boolean readOnly)            Puts this connection in read-only mode as a hint to the driver to enable database optimizations. |
| 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. |
| | <T extends [Result](http://docs.google.com/javax/xml/transform/Result.html)>  T | | --- | | **SQLXML.**[**setResult**](http://docs.google.com/java/sql/SQLXML.html#setResult(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html)<T> resultClass)            Returns a Result for setting the XML value designated by this SQLXML instance. |
| void | **PreparedStatement.**[**setRowId**](http://docs.google.com/java/sql/PreparedStatement.html#setRowId(int,%20java.sql.RowId))(int parameterIndex, [RowId](http://docs.google.com/java/sql/RowId.html) x)            Sets the designated parameter to the given java.sql.RowId object. |
| void | **CallableStatement.**[**setRowId**](http://docs.google.com/java/sql/CallableStatement.html#setRowId(java.lang.String,%20java.sql.RowId))([String](http://docs.google.com/java/lang/String.html) parameterName, [RowId](http://docs.google.com/java/sql/RowId.html) x)            Sets the designated parameter to the given java.sql.RowId object. |
| [Savepoint](http://docs.google.com/java/sql/Savepoint.html) | **Connection.**[**setSavepoint**](http://docs.google.com/java/sql/Connection.html#setSavepoint())()            Creates an unnamed savepoint in the current transaction and returns the new Savepoint object that represents it. |
| [Savepoint](http://docs.google.com/java/sql/Savepoint.html) | **Connection.**[**setSavepoint**](http://docs.google.com/java/sql/Connection.html#setSavepoint(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Creates a savepoint with the given name in the current transaction and returns the new Savepoint object that represents it. |
| void | **PreparedStatement.**[**setShort**](http://docs.google.com/java/sql/PreparedStatement.html#setShort(int,%20short))(int parameterIndex, short x)            Sets the designated parameter to the given Java short value. |
| void | **CallableStatement.**[**setShort**](http://docs.google.com/java/sql/CallableStatement.html#setShort(java.lang.String,%20short))([String](http://docs.google.com/java/lang/String.html) parameterName, short x)            Sets the designated parameter to the given Java short value. |
| void | **PreparedStatement.**[**setSQLXML**](http://docs.google.com/java/sql/PreparedStatement.html#setSQLXML(int,%20java.sql.SQLXML))(int parameterIndex, [SQLXML](http://docs.google.com/java/sql/SQLXML.html) xmlObject)            Sets the designated parameter to the given java.sql.SQLXML object. |
| void | **CallableStatement.**[**setSQLXML**](http://docs.google.com/java/sql/CallableStatement.html#setSQLXML(java.lang.String,%20java.sql.SQLXML))([String](http://docs.google.com/java/lang/String.html) parameterName, [SQLXML](http://docs.google.com/java/sql/SQLXML.html) xmlObject)            Sets the designated parameter to the given java.sql.SQLXML object. |
| void | **PreparedStatement.**[**setString**](http://docs.google.com/java/sql/PreparedStatement.html#setString(int,%20java.lang.String))(int parameterIndex, [String](http://docs.google.com/java/lang/String.html) x)            Sets the designated parameter to the given Java String value. |
| int | **Clob.**[**setString**](http://docs.google.com/java/sql/Clob.html#setString(long,%20java.lang.String))(long pos, [String](http://docs.google.com/java/lang/String.html) str)            Writes the given Java String to the CLOB value that this Clob object designates at the position pos. |
| int | **Clob.**[**setString**](http://docs.google.com/java/sql/Clob.html#setString(long,%20java.lang.String,%20int,%20int))(long pos, [String](http://docs.google.com/java/lang/String.html) str, int offset, int len)            Writes len characters of str, starting at character offset, to the CLOB value that this Clob represents. |
| void | **SQLXML.**[**setString**](http://docs.google.com/java/sql/SQLXML.html#setString(java.lang.String))([String](http://docs.google.com/java/lang/String.html) value)            Sets the XML value designated by this SQLXML instance to the given String representation. |
| void | **CallableStatement.**[**setString**](http://docs.google.com/java/sql/CallableStatement.html#setString(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName, [String](http://docs.google.com/java/lang/String.html) x)            Sets the designated parameter to the given Java String value. |
| void | **PreparedStatement.**[**setTime**](http://docs.google.com/java/sql/PreparedStatement.html#setTime(int,%20java.sql.Time))(int parameterIndex, [Time](http://docs.google.com/java/sql/Time.html) x)            Sets the designated parameter to the given java.sql.Time value. |
| void | **PreparedStatement.**[**setTime**](http://docs.google.com/java/sql/PreparedStatement.html#setTime(int,%20java.sql.Time,%20java.util.Calendar))(int parameterIndex, [Time](http://docs.google.com/java/sql/Time.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter to the given java.sql.Time value, using the given Calendar object. |
| void | **CallableStatement.**[**setTime**](http://docs.google.com/java/sql/CallableStatement.html#setTime(java.lang.String,%20java.sql.Time))([String](http://docs.google.com/java/lang/String.html) parameterName, [Time](http://docs.google.com/java/sql/Time.html) x)            Sets the designated parameter to the given java.sql.Time value. |
| void | **CallableStatement.**[**setTime**](http://docs.google.com/java/sql/CallableStatement.html#setTime(java.lang.String,%20java.sql.Time,%20java.util.Calendar))([String](http://docs.google.com/java/lang/String.html) parameterName, [Time](http://docs.google.com/java/sql/Time.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter to the given java.sql.Time value, using the given Calendar object. |
| void | **PreparedStatement.**[**setTimestamp**](http://docs.google.com/java/sql/PreparedStatement.html#setTimestamp(int,%20java.sql.Timestamp))(int parameterIndex, [Timestamp](http://docs.google.com/java/sql/Timestamp.html) x)            Sets the designated parameter to the given java.sql.Timestamp value. |
| void | **PreparedStatement.**[**setTimestamp**](http://docs.google.com/java/sql/PreparedStatement.html#setTimestamp(int,%20java.sql.Timestamp,%20java.util.Calendar))(int parameterIndex, [Timestamp](http://docs.google.com/java/sql/Timestamp.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter to the given java.sql.Timestamp value, using the given Calendar object. |
| void | **CallableStatement.**[**setTimestamp**](http://docs.google.com/java/sql/CallableStatement.html#setTimestamp(java.lang.String,%20java.sql.Timestamp))([String](http://docs.google.com/java/lang/String.html) parameterName, [Timestamp](http://docs.google.com/java/sql/Timestamp.html) x)            Sets the designated parameter to the given java.sql.Timestamp value. |
| void | **CallableStatement.**[**setTimestamp**](http://docs.google.com/java/sql/CallableStatement.html#setTimestamp(java.lang.String,%20java.sql.Timestamp,%20java.util.Calendar))([String](http://docs.google.com/java/lang/String.html) parameterName, [Timestamp](http://docs.google.com/java/sql/Timestamp.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter to the given java.sql.Timestamp value, using the given Calendar object. |
| void | **Connection.**[**setTransactionIsolation**](http://docs.google.com/java/sql/Connection.html#setTransactionIsolation(int))(int level)            Attempts to change the transaction isolation level for this Connection object to the one given. |
| void | **Connection.**[**setTypeMap**](http://docs.google.com/java/sql/Connection.html#setTypeMap(java.util.Map))([Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> map)            Installs the given TypeMap object as the type map for this Connection object. |
| void | **PreparedStatement.**[**setUnicodeStream**](http://docs.google.com/java/sql/PreparedStatement.html#setUnicodeStream(int,%20java.io.InputStream,%20int))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)  **Deprecated.** |
| void | **PreparedStatement.**[**setURL**](http://docs.google.com/java/sql/PreparedStatement.html#setURL(int,%20java.net.URL))(int parameterIndex, [URL](http://docs.google.com/java/net/URL.html) x)            Sets the designated parameter to the given java.net.URL value. |
| void | **CallableStatement.**[**setURL**](http://docs.google.com/java/sql/CallableStatement.html#setURL(java.lang.String,%20java.net.URL))([String](http://docs.google.com/java/lang/String.html) parameterName, [URL](http://docs.google.com/java/net/URL.html) val)            Sets the designated parameter to the given java.net.URL object. |
| boolean | **DatabaseMetaData.**[**storesLowerCaseIdentifiers**](http://docs.google.com/java/sql/DatabaseMetaData.html#storesLowerCaseIdentifiers())()            Retrieves whether this database treats mixed case unquoted SQL identifiers as case insensitive and stores them in lower case. |
| boolean | **DatabaseMetaData.**[**storesLowerCaseQuotedIdentifiers**](http://docs.google.com/java/sql/DatabaseMetaData.html#storesLowerCaseQuotedIdentifiers())()            Retrieves whether this database treats mixed case quoted SQL identifiers as case insensitive and stores them in lower case. |
| boolean | **DatabaseMetaData.**[**storesMixedCaseIdentifiers**](http://docs.google.com/java/sql/DatabaseMetaData.html#storesMixedCaseIdentifiers())()            Retrieves whether this database treats mixed case unquoted SQL identifiers as case insensitive and stores them in mixed case. |
| boolean | **DatabaseMetaData.**[**storesMixedCaseQuotedIdentifiers**](http://docs.google.com/java/sql/DatabaseMetaData.html#storesMixedCaseQuotedIdentifiers())()            Retrieves whether this database treats mixed case quoted SQL identifiers as case insensitive and stores them in mixed case. |
| boolean | **DatabaseMetaData.**[**storesUpperCaseIdentifiers**](http://docs.google.com/java/sql/DatabaseMetaData.html#storesUpperCaseIdentifiers())()            Retrieves whether this database treats mixed case unquoted SQL identifiers as case insensitive and stores them in upper case. |
| boolean | **DatabaseMetaData.**[**storesUpperCaseQuotedIdentifiers**](http://docs.google.com/java/sql/DatabaseMetaData.html#storesUpperCaseQuotedIdentifiers())()            Retrieves whether this database treats mixed case quoted SQL identifiers as case insensitive and stores them in upper case. |
| boolean | **DatabaseMetaData.**[**supportsAlterTableWithAddColumn**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsAlterTableWithAddColumn())()            Retrieves whether this database supports ALTER TABLE with add column. |
| boolean | **DatabaseMetaData.**[**supportsAlterTableWithDropColumn**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsAlterTableWithDropColumn())()            Retrieves whether this database supports ALTER TABLE with drop column. |
| boolean | **DatabaseMetaData.**[**supportsANSI92EntryLevelSQL**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsANSI92EntryLevelSQL())()            Retrieves whether this database supports the ANSI92 entry level SQL grammar. |
| boolean | **DatabaseMetaData.**[**supportsANSI92FullSQL**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsANSI92FullSQL())()            Retrieves whether this database supports the ANSI92 full SQL grammar supported. |
| boolean | **DatabaseMetaData.**[**supportsANSI92IntermediateSQL**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsANSI92IntermediateSQL())()            Retrieves whether this database supports the ANSI92 intermediate SQL grammar supported. |
| boolean | **DatabaseMetaData.**[**supportsBatchUpdates**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsBatchUpdates())()            Retrieves whether this database supports batch updates. |
| boolean | **DatabaseMetaData.**[**supportsCatalogsInDataManipulation**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsCatalogsInDataManipulation())()            Retrieves whether a catalog name can be used in a data manipulation statement. |
| boolean | **DatabaseMetaData.**[**supportsCatalogsInIndexDefinitions**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsCatalogsInIndexDefinitions())()            Retrieves whether a catalog name can be used in an index definition statement. |
| boolean | **DatabaseMetaData.**[**supportsCatalogsInPrivilegeDefinitions**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsCatalogsInPrivilegeDefinitions())()            Retrieves whether a catalog name can be used in a privilege definition statement. |
| boolean | **DatabaseMetaData.**[**supportsCatalogsInProcedureCalls**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsCatalogsInProcedureCalls())()            Retrieves whether a catalog name can be used in a procedure call statement. |
| boolean | **DatabaseMetaData.**[**supportsCatalogsInTableDefinitions**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsCatalogsInTableDefinitions())()            Retrieves whether a catalog name can be used in a table definition statement. |
| boolean | **DatabaseMetaData.**[**supportsColumnAliasing**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsColumnAliasing())()            Retrieves whether this database supports column aliasing. |
| boolean | **DatabaseMetaData.**[**supportsConvert**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsConvert())()            Retrieves whether this database supports the JDBC scalar function CONVERT for the conversion of one JDBC type to another. |
| boolean | **DatabaseMetaData.**[**supportsConvert**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsConvert(int,%20int))(int fromType, int toType)            Retrieves whether this database supports the JDBC scalar function CONVERT for conversions between the JDBC types *fromType* and *toType*. |
| boolean | **DatabaseMetaData.**[**supportsCoreSQLGrammar**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsCoreSQLGrammar())()            Retrieves whether this database supports the ODBC Core SQL grammar. |
| boolean | **DatabaseMetaData.**[**supportsCorrelatedSubqueries**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsCorrelatedSubqueries())()            Retrieves whether this database supports correlated subqueries. |
| boolean | **DatabaseMetaData.**[**supportsDataDefinitionAndDataManipulationTransactions**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsDataDefinitionAndDataManipulationTransactions())()            Retrieves whether this database supports both data definition and data manipulation statements within a transaction. |
| boolean | **DatabaseMetaData.**[**supportsDataManipulationTransactionsOnly**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsDataManipulationTransactionsOnly())()            Retrieves whether this database supports only data manipulation statements within a transaction. |
| boolean | **DatabaseMetaData.**[**supportsDifferentTableCorrelationNames**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsDifferentTableCorrelationNames())()            Retrieves whether, when table correlation names are supported, they are restricted to being different from the names of the tables. |
| boolean | **DatabaseMetaData.**[**supportsExpressionsInOrderBy**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsExpressionsInOrderBy())()            Retrieves whether this database supports expressions in ORDER BY lists. |
| boolean | **DatabaseMetaData.**[**supportsExtendedSQLGrammar**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsExtendedSQLGrammar())()            Retrieves whether this database supports the ODBC Extended SQL grammar. |
| boolean | **DatabaseMetaData.**[**supportsFullOuterJoins**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsFullOuterJoins())()            Retrieves whether this database supports full nested outer joins. |
| boolean | **DatabaseMetaData.**[**supportsGetGeneratedKeys**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsGetGeneratedKeys())()            Retrieves whether auto-generated keys can be retrieved after a statement has been executed |
| boolean | **DatabaseMetaData.**[**supportsGroupBy**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsGroupBy())()            Retrieves whether this database supports some form of GROUP BY clause. |
| boolean | **DatabaseMetaData.**[**supportsGroupByBeyondSelect**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsGroupByBeyondSelect())()            Retrieves whether this database supports using columns not included in the SELECT statement in a GROUP BY clause provided that all of the columns in the SELECT statement are included in the GROUP BY clause. |
| boolean | **DatabaseMetaData.**[**supportsGroupByUnrelated**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsGroupByUnrelated())()            Retrieves whether this database supports using a column that is not in the SELECT statement in a GROUP BY clause. |
| boolean | **DatabaseMetaData.**[**supportsIntegrityEnhancementFacility**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsIntegrityEnhancementFacility())()            Retrieves whether this database supports the SQL Integrity Enhancement Facility. |
| boolean | **DatabaseMetaData.**[**supportsLikeEscapeClause**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsLikeEscapeClause())()            Retrieves whether this database supports specifying a LIKE escape clause. |
| boolean | **DatabaseMetaData.**[**supportsLimitedOuterJoins**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsLimitedOuterJoins())()            Retrieves whether this database provides limited support for outer joins. |
| boolean | **DatabaseMetaData.**[**supportsMinimumSQLGrammar**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsMinimumSQLGrammar())()            Retrieves whether this database supports the ODBC Minimum SQL grammar. |
| boolean | **DatabaseMetaData.**[**supportsMixedCaseIdentifiers**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsMixedCaseIdentifiers())()            Retrieves whether this database treats mixed case unquoted SQL identifiers as case sensitive and as a result stores them in mixed case. |
| boolean | **DatabaseMetaData.**[**supportsMixedCaseQuotedIdentifiers**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsMixedCaseQuotedIdentifiers())()            Retrieves whether this database treats mixed case quoted SQL identifiers as case sensitive and as a result stores them in mixed case. |
| boolean | **DatabaseMetaData.**[**supportsMultipleOpenResults**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsMultipleOpenResults())()            Retrieves whether it is possible to have multiple ResultSet objects returned from a CallableStatement object simultaneously. |
| boolean | **DatabaseMetaData.**[**supportsMultipleResultSets**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsMultipleResultSets())()            Retrieves whether this database supports getting multiple ResultSet objects from a single call to the method execute. |
| boolean | **DatabaseMetaData.**[**supportsMultipleTransactions**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsMultipleTransactions())()            Retrieves whether this database allows having multiple transactions open at once (on different connections). |
| boolean | **DatabaseMetaData.**[**supportsNamedParameters**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsNamedParameters())()            Retrieves whether this database supports named parameters to callable statements. |
| boolean | **DatabaseMetaData.**[**supportsNonNullableColumns**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsNonNullableColumns())()            Retrieves whether columns in this database may be defined as non-nullable. |
| boolean | **DatabaseMetaData.**[**supportsOpenCursorsAcrossCommit**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsOpenCursorsAcrossCommit())()            Retrieves whether this database supports keeping cursors open across commits. |
| boolean | **DatabaseMetaData.**[**supportsOpenCursorsAcrossRollback**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsOpenCursorsAcrossRollback())()            Retrieves whether this database supports keeping cursors open across rollbacks. |
| boolean | **DatabaseMetaData.**[**supportsOpenStatementsAcrossCommit**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsOpenStatementsAcrossCommit())()            Retrieves whether this database supports keeping statements open across commits. |
| boolean | **DatabaseMetaData.**[**supportsOpenStatementsAcrossRollback**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsOpenStatementsAcrossRollback())()            Retrieves whether this database supports keeping statements open across rollbacks. |
| boolean | **DatabaseMetaData.**[**supportsOrderByUnrelated**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsOrderByUnrelated())()            Retrieves whether this database supports using a column that is not in the SELECT statement in an ORDER BY clause. |
| boolean | **DatabaseMetaData.**[**supportsOuterJoins**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsOuterJoins())()            Retrieves whether this database supports some form of outer join. |
| boolean | **DatabaseMetaData.**[**supportsPositionedDelete**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsPositionedDelete())()            Retrieves whether this database supports positioned DELETE statements. |
| boolean | **DatabaseMetaData.**[**supportsPositionedUpdate**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsPositionedUpdate())()            Retrieves whether this database supports positioned UPDATE statements. |
| boolean | **DatabaseMetaData.**[**supportsResultSetConcurrency**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsResultSetConcurrency(int,%20int))(int type, int concurrency)            Retrieves whether this database supports the given concurrency type in combination with the given result set type. |
| boolean | **DatabaseMetaData.**[**supportsResultSetHoldability**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsResultSetHoldability(int))(int holdability)            Retrieves whether this database supports the given result set holdability. |
| boolean | **DatabaseMetaData.**[**supportsResultSetType**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsResultSetType(int))(int type)            Retrieves whether this database supports the given result set type. |
| boolean | **DatabaseMetaData.**[**supportsSavepoints**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsSavepoints())()            Retrieves whether this database supports savepoints. |
| boolean | **DatabaseMetaData.**[**supportsSchemasInDataManipulation**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsSchemasInDataManipulation())()            Retrieves whether a schema name can be used in a data manipulation statement. |
| boolean | **DatabaseMetaData.**[**supportsSchemasInIndexDefinitions**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsSchemasInIndexDefinitions())()            Retrieves whether a schema name can be used in an index definition statement. |
| boolean | **DatabaseMetaData.**[**supportsSchemasInPrivilegeDefinitions**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsSchemasInPrivilegeDefinitions())()            Retrieves whether a schema name can be used in a privilege definition statement. |
| boolean | **DatabaseMetaData.**[**supportsSchemasInProcedureCalls**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsSchemasInProcedureCalls())()            Retrieves whether a schema name can be used in a procedure call statement. |
| boolean | **DatabaseMetaData.**[**supportsSchemasInTableDefinitions**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsSchemasInTableDefinitions())()            Retrieves whether a schema name can be used in a table definition statement. |
| boolean | **DatabaseMetaData.**[**supportsSelectForUpdate**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsSelectForUpdate())()            Retrieves whether this database supports SELECT FOR UPDATE statements. |
| boolean | **DatabaseMetaData.**[**supportsStatementPooling**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsStatementPooling())()            Retrieves whether this database supports statement pooling. |
| boolean | **DatabaseMetaData.**[**supportsStoredFunctionsUsingCallSyntax**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsStoredFunctionsUsingCallSyntax())()            Retrieves whether this database supports invoking user-defined or vendor functions using the stored procedure escape syntax. |
| boolean | **DatabaseMetaData.**[**supportsStoredProcedures**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsStoredProcedures())()            Retrieves whether this database supports stored procedure calls that use the stored procedure escape syntax. |
| boolean | **DatabaseMetaData.**[**supportsSubqueriesInComparisons**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsSubqueriesInComparisons())()            Retrieves whether this database supports subqueries in comparison expressions. |
| boolean | **DatabaseMetaData.**[**supportsSubqueriesInExists**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsSubqueriesInExists())()            Retrieves whether this database supports subqueries in EXISTS expressions. |
| boolean | **DatabaseMetaData.**[**supportsSubqueriesInIns**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsSubqueriesInIns())()            Retrieves whether this database supports subqueries in IN expressions. |
| boolean | **DatabaseMetaData.**[**supportsSubqueriesInQuantifieds**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsSubqueriesInQuantifieds())()            Retrieves whether this database supports subqueries in quantified expressions. |
| boolean | **DatabaseMetaData.**[**supportsTableCorrelationNames**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsTableCorrelationNames())()            Retrieves whether this database supports table correlation names. |
| boolean | **DatabaseMetaData.**[**supportsTransactionIsolationLevel**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsTransactionIsolationLevel(int))(int level)            Retrieves whether this database supports the given transaction isolation level. |
| boolean | **DatabaseMetaData.**[**supportsTransactions**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsTransactions())()            Retrieves whether this database supports transactions. |
| boolean | **DatabaseMetaData.**[**supportsUnion**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsUnion())()            Retrieves whether this database supports SQL UNION. |
| boolean | **DatabaseMetaData.**[**supportsUnionAll**](http://docs.google.com/java/sql/DatabaseMetaData.html#supportsUnionAll())()            Retrieves whether this database supports SQL UNION ALL. |
| void | **Clob.**[**truncate**](http://docs.google.com/java/sql/Clob.html#truncate(long))(long len)            Truncates the CLOB value that this Clob designates to have a length of len characters. |
| void | **Blob.**[**truncate**](http://docs.google.com/java/sql/Blob.html#truncate(long))(long len)            Truncates the BLOB value that this Blob object represents to be len bytes in length. |
| | <T> T | | --- | | **Wrapper.**[**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. |
| void | **ResultSet.**[**updateArray**](http://docs.google.com/java/sql/ResultSet.html#updateArray(int,%20java.sql.Array))(int columnIndex, [Array](http://docs.google.com/java/sql/Array.html) x)            Updates the designated column with a java.sql.Array value. |
| void | **ResultSet.**[**updateArray**](http://docs.google.com/java/sql/ResultSet.html#updateArray(java.lang.String,%20java.sql.Array))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Array](http://docs.google.com/java/sql/Array.html) x)            Updates the designated column with a java.sql.Array value. |
| void | **ResultSet.**[**updateAsciiStream**](http://docs.google.com/java/sql/ResultSet.html#updateAsciiStream(int,%20java.io.InputStream))(int columnIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Updates the designated column with an ascii stream value. |
| void | **ResultSet.**[**updateAsciiStream**](http://docs.google.com/java/sql/ResultSet.html#updateAsciiStream(int,%20java.io.InputStream,%20int))(int columnIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Updates the designated column with an ascii stream value, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateAsciiStream**](http://docs.google.com/java/sql/ResultSet.html#updateAsciiStream(int,%20java.io.InputStream,%20long))(int columnIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x, long length)            Updates the designated column with an ascii stream value, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateAsciiStream**](http://docs.google.com/java/sql/ResultSet.html#updateAsciiStream(java.lang.String,%20java.io.InputStream))([String](http://docs.google.com/java/lang/String.html) columnLabel, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Updates the designated column with an ascii stream value. |
| void | **ResultSet.**[**updateAsciiStream**](http://docs.google.com/java/sql/ResultSet.html#updateAsciiStream(java.lang.String,%20java.io.InputStream,%20int))([String](http://docs.google.com/java/lang/String.html) columnLabel, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Updates the designated column with an ascii stream value, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateAsciiStream**](http://docs.google.com/java/sql/ResultSet.html#updateAsciiStream(java.lang.String,%20java.io.InputStream,%20long))([String](http://docs.google.com/java/lang/String.html) columnLabel, [InputStream](http://docs.google.com/java/io/InputStream.html) x, long length)            Updates the designated column with an ascii stream value, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateBigDecimal**](http://docs.google.com/java/sql/ResultSet.html#updateBigDecimal(int,%20java.math.BigDecimal))(int columnIndex, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Updates the designated column with a java.math.BigDecimal value. |
| void | **ResultSet.**[**updateBigDecimal**](http://docs.google.com/java/sql/ResultSet.html#updateBigDecimal(java.lang.String,%20java.math.BigDecimal))([String](http://docs.google.com/java/lang/String.html) columnLabel, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Updates the designated column with a java.sql.BigDecimal value. |
| void | **ResultSet.**[**updateBinaryStream**](http://docs.google.com/java/sql/ResultSet.html#updateBinaryStream(int,%20java.io.InputStream))(int columnIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Updates the designated column with a binary stream value. |
| void | **ResultSet.**[**updateBinaryStream**](http://docs.google.com/java/sql/ResultSet.html#updateBinaryStream(int,%20java.io.InputStream,%20int))(int columnIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Updates the designated column with a binary stream value, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateBinaryStream**](http://docs.google.com/java/sql/ResultSet.html#updateBinaryStream(int,%20java.io.InputStream,%20long))(int columnIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x, long length)            Updates the designated column with a binary stream value, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateBinaryStream**](http://docs.google.com/java/sql/ResultSet.html#updateBinaryStream(java.lang.String,%20java.io.InputStream))([String](http://docs.google.com/java/lang/String.html) columnLabel, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Updates the designated column with a binary stream value. |
| void | **ResultSet.**[**updateBinaryStream**](http://docs.google.com/java/sql/ResultSet.html#updateBinaryStream(java.lang.String,%20java.io.InputStream,%20int))([String](http://docs.google.com/java/lang/String.html) columnLabel, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Updates the designated column with a binary stream value, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateBinaryStream**](http://docs.google.com/java/sql/ResultSet.html#updateBinaryStream(java.lang.String,%20java.io.InputStream,%20long))([String](http://docs.google.com/java/lang/String.html) columnLabel, [InputStream](http://docs.google.com/java/io/InputStream.html) x, long length)            Updates the designated column with a binary stream value, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateBlob**](http://docs.google.com/java/sql/ResultSet.html#updateBlob(int,%20java.sql.Blob))(int columnIndex, [Blob](http://docs.google.com/java/sql/Blob.html) x)            Updates the designated column with a java.sql.Blob value. |
| void | **ResultSet.**[**updateBlob**](http://docs.google.com/java/sql/ResultSet.html#updateBlob(int,%20java.io.InputStream))(int columnIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream)            Updates the designated column using the given input stream. |
| void | **ResultSet.**[**updateBlob**](http://docs.google.com/java/sql/ResultSet.html#updateBlob(int,%20java.io.InputStream,%20long))(int columnIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream, long length)            Updates the designated column using the given input stream, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateBlob**](http://docs.google.com/java/sql/ResultSet.html#updateBlob(java.lang.String,%20java.sql.Blob))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Blob](http://docs.google.com/java/sql/Blob.html) x)            Updates the designated column with a java.sql.Blob value. |
| void | **ResultSet.**[**updateBlob**](http://docs.google.com/java/sql/ResultSet.html#updateBlob(java.lang.String,%20java.io.InputStream))([String](http://docs.google.com/java/lang/String.html) columnLabel, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream)            Updates the designated column using the given input stream. |
| void | **ResultSet.**[**updateBlob**](http://docs.google.com/java/sql/ResultSet.html#updateBlob(java.lang.String,%20java.io.InputStream,%20long))([String](http://docs.google.com/java/lang/String.html) columnLabel, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream, long length)            Updates the designated column using the given input stream, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateBoolean**](http://docs.google.com/java/sql/ResultSet.html#updateBoolean(int,%20boolean))(int columnIndex, boolean x)            Updates the designated column with a boolean value. |
| void | **ResultSet.**[**updateBoolean**](http://docs.google.com/java/sql/ResultSet.html#updateBoolean(java.lang.String,%20boolean))([String](http://docs.google.com/java/lang/String.html) columnLabel, boolean x)            Updates the designated column with a boolean value. |
| void | **ResultSet.**[**updateByte**](http://docs.google.com/java/sql/ResultSet.html#updateByte(int,%20byte))(int columnIndex, byte x)            Updates the designated column with a byte value. |
| void | **ResultSet.**[**updateByte**](http://docs.google.com/java/sql/ResultSet.html#updateByte(java.lang.String,%20byte))([String](http://docs.google.com/java/lang/String.html) columnLabel, byte x)            Updates the designated column with a byte value. |
| void | **ResultSet.**[**updateBytes**](http://docs.google.com/java/sql/ResultSet.html#updateBytes(int,%20byte%5B%5D))(int columnIndex, byte[] x)            Updates the designated column with a byte array value. |
| void | **ResultSet.**[**updateBytes**](http://docs.google.com/java/sql/ResultSet.html#updateBytes(java.lang.String,%20byte%5B%5D))([String](http://docs.google.com/java/lang/String.html) columnLabel, byte[] x)            Updates the designated column with a byte array value. |
| void | **ResultSet.**[**updateCharacterStream**](http://docs.google.com/java/sql/ResultSet.html#updateCharacterStream(int,%20java.io.Reader))(int columnIndex, [Reader](http://docs.google.com/java/io/Reader.html) x)            Updates the designated column with a character stream value. |
| void | **ResultSet.**[**updateCharacterStream**](http://docs.google.com/java/sql/ResultSet.html#updateCharacterStream(int,%20java.io.Reader,%20int))(int columnIndex, [Reader](http://docs.google.com/java/io/Reader.html) x, int length)            Updates the designated column with a character stream value, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateCharacterStream**](http://docs.google.com/java/sql/ResultSet.html#updateCharacterStream(int,%20java.io.Reader,%20long))(int columnIndex, [Reader](http://docs.google.com/java/io/Reader.html) x, long length)            Updates the designated column with a character stream value, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateCharacterStream**](http://docs.google.com/java/sql/ResultSet.html#updateCharacterStream(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Updates the designated column with a character stream value. |
| void | **ResultSet.**[**updateCharacterStream**](http://docs.google.com/java/sql/ResultSet.html#updateCharacterStream(java.lang.String,%20java.io.Reader,%20int))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Reader](http://docs.google.com/java/io/Reader.html) reader, int length)            Updates the designated column with a character stream value, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateCharacterStream**](http://docs.google.com/java/sql/ResultSet.html#updateCharacterStream(java.lang.String,%20java.io.Reader,%20long))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Updates the designated column with a character stream value, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateClob**](http://docs.google.com/java/sql/ResultSet.html#updateClob(int,%20java.sql.Clob))(int columnIndex, [Clob](http://docs.google.com/java/sql/Clob.html) x)            Updates the designated column with a java.sql.Clob value. |
| void | **ResultSet.**[**updateClob**](http://docs.google.com/java/sql/ResultSet.html#updateClob(int,%20java.io.Reader))(int columnIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Updates the designated column using the given Reader object. |
| void | **ResultSet.**[**updateClob**](http://docs.google.com/java/sql/ResultSet.html#updateClob(int,%20java.io.Reader,%20long))(int columnIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Updates the designated column using the given Reader object, which is the given number of characters long. |
| void | **ResultSet.**[**updateClob**](http://docs.google.com/java/sql/ResultSet.html#updateClob(java.lang.String,%20java.sql.Clob))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Clob](http://docs.google.com/java/sql/Clob.html) x)            Updates the designated column with a java.sql.Clob value. |
| void | **ResultSet.**[**updateClob**](http://docs.google.com/java/sql/ResultSet.html#updateClob(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Updates the designated column using the given Reader object. |
| void | **ResultSet.**[**updateClob**](http://docs.google.com/java/sql/ResultSet.html#updateClob(java.lang.String,%20java.io.Reader,%20long))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Updates the designated column using the given Reader object, which is the given number of characters long. |
| void | **ResultSet.**[**updateDate**](http://docs.google.com/java/sql/ResultSet.html#updateDate(int,%20java.sql.Date))(int columnIndex, [Date](http://docs.google.com/java/sql/Date.html) x)            Updates the designated column with a java.sql.Date value. |
| void | **ResultSet.**[**updateDate**](http://docs.google.com/java/sql/ResultSet.html#updateDate(java.lang.String,%20java.sql.Date))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Date](http://docs.google.com/java/sql/Date.html) x)            Updates the designated column with a java.sql.Date value. |
| void | **ResultSet.**[**updateDouble**](http://docs.google.com/java/sql/ResultSet.html#updateDouble(int,%20double))(int columnIndex, double x)            Updates the designated column with a double value. |
| void | **ResultSet.**[**updateDouble**](http://docs.google.com/java/sql/ResultSet.html#updateDouble(java.lang.String,%20double))([String](http://docs.google.com/java/lang/String.html) columnLabel, double x)            Updates the designated column with a double value. |
| void | **ResultSet.**[**updateFloat**](http://docs.google.com/java/sql/ResultSet.html#updateFloat(int,%20float))(int columnIndex, float x)            Updates the designated column with a float value. |
| void | **ResultSet.**[**updateFloat**](http://docs.google.com/java/sql/ResultSet.html#updateFloat(java.lang.String,%20float))([String](http://docs.google.com/java/lang/String.html) columnLabel, float x)            Updates the designated column with a float value. |
| void | **ResultSet.**[**updateInt**](http://docs.google.com/java/sql/ResultSet.html#updateInt(int,%20int))(int columnIndex, int x)            Updates the designated column with an int value. |
| void | **ResultSet.**[**updateInt**](http://docs.google.com/java/sql/ResultSet.html#updateInt(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) columnLabel, int x)            Updates the designated column with an int value. |
| void | **ResultSet.**[**updateLong**](http://docs.google.com/java/sql/ResultSet.html#updateLong(int,%20long))(int columnIndex, long x)            Updates the designated column with a long value. |
| void | **ResultSet.**[**updateLong**](http://docs.google.com/java/sql/ResultSet.html#updateLong(java.lang.String,%20long))([String](http://docs.google.com/java/lang/String.html) columnLabel, long x)            Updates the designated column with a long value. |
| void | **ResultSet.**[**updateNCharacterStream**](http://docs.google.com/java/sql/ResultSet.html#updateNCharacterStream(int,%20java.io.Reader))(int columnIndex, [Reader](http://docs.google.com/java/io/Reader.html) x)            Updates the designated column with a character stream value. |
| void | **ResultSet.**[**updateNCharacterStream**](http://docs.google.com/java/sql/ResultSet.html#updateNCharacterStream(int,%20java.io.Reader,%20long))(int columnIndex, [Reader](http://docs.google.com/java/io/Reader.html) x, long length)            Updates the designated column with a character stream value, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateNCharacterStream**](http://docs.google.com/java/sql/ResultSet.html#updateNCharacterStream(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Updates the designated column with a character stream value. |
| void | **ResultSet.**[**updateNCharacterStream**](http://docs.google.com/java/sql/ResultSet.html#updateNCharacterStream(java.lang.String,%20java.io.Reader,%20long))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Updates the designated column with a character stream value, which will have the specified number of bytes. |
| void | **ResultSet.**[**updateNClob**](http://docs.google.com/java/sql/ResultSet.html#updateNClob(int,%20java.sql.NClob))(int columnIndex, [NClob](http://docs.google.com/java/sql/NClob.html) nClob)            Updates the designated column with a java.sql.NClob value. |
| void | **ResultSet.**[**updateNClob**](http://docs.google.com/java/sql/ResultSet.html#updateNClob(int,%20java.io.Reader))(int columnIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Updates the designated column using the given Reader The data will be read from the stream as needed until end-of-stream is reached. |
| void | **ResultSet.**[**updateNClob**](http://docs.google.com/java/sql/ResultSet.html#updateNClob(int,%20java.io.Reader,%20long))(int columnIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Updates the designated column using the given Reader object, which is the given number of characters long. |
| void | **ResultSet.**[**updateNClob**](http://docs.google.com/java/sql/ResultSet.html#updateNClob(java.lang.String,%20java.sql.NClob))([String](http://docs.google.com/java/lang/String.html) columnLabel, [NClob](http://docs.google.com/java/sql/NClob.html) nClob)            Updates the designated column with a java.sql.NClob value. |
| void | **ResultSet.**[**updateNClob**](http://docs.google.com/java/sql/ResultSet.html#updateNClob(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Updates the designated column using the given Reader object. |
| void | **ResultSet.**[**updateNClob**](http://docs.google.com/java/sql/ResultSet.html#updateNClob(java.lang.String,%20java.io.Reader,%20long))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Updates the designated column using the given Reader object, which is the given number of characters long. |
| void | **ResultSet.**[**updateNString**](http://docs.google.com/java/sql/ResultSet.html#updateNString(int,%20java.lang.String))(int columnIndex, [String](http://docs.google.com/java/lang/String.html) nString)            Updates the designated column with a String value. |
| void | **ResultSet.**[**updateNString**](http://docs.google.com/java/sql/ResultSet.html#updateNString(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) columnLabel, [String](http://docs.google.com/java/lang/String.html) nString)            Updates the designated column with a String value. |
| void | **ResultSet.**[**updateNull**](http://docs.google.com/java/sql/ResultSet.html#updateNull(int))(int columnIndex)            Updates the designated column with a null value. |
| void | **ResultSet.**[**updateNull**](http://docs.google.com/java/sql/ResultSet.html#updateNull(java.lang.String))([String](http://docs.google.com/java/lang/String.html) columnLabel)            Updates the designated column with a null value. |
| void | **ResultSet.**[**updateObject**](http://docs.google.com/java/sql/ResultSet.html#updateObject(int,%20java.lang.Object))(int columnIndex, [Object](http://docs.google.com/java/lang/Object.html) x)            Updates the designated column with an Object value. |
| void | **ResultSet.**[**updateObject**](http://docs.google.com/java/sql/ResultSet.html#updateObject(int,%20java.lang.Object,%20int))(int columnIndex, [Object](http://docs.google.com/java/lang/Object.html) x, int scaleOrLength)            Updates the designated column with an Object value. |
| void | **ResultSet.**[**updateObject**](http://docs.google.com/java/sql/ResultSet.html#updateObject(java.lang.String,%20java.lang.Object))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Object](http://docs.google.com/java/lang/Object.html) x)            Updates the designated column with an Object value. |
| void | **ResultSet.**[**updateObject**](http://docs.google.com/java/sql/ResultSet.html#updateObject(java.lang.String,%20java.lang.Object,%20int))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Object](http://docs.google.com/java/lang/Object.html) x, int scaleOrLength)            Updates the designated column with an Object 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 | **ResultSet.**[**updateRow**](http://docs.google.com/java/sql/ResultSet.html#updateRow())()            Updates the underlying database with the new contents of the current row of this ResultSet object. |
| void | **ResultSet.**[**updateRowId**](http://docs.google.com/java/sql/ResultSet.html#updateRowId(int,%20java.sql.RowId))(int columnIndex, [RowId](http://docs.google.com/java/sql/RowId.html) x)            Updates the designated column with a RowId value. |
| void | **ResultSet.**[**updateRowId**](http://docs.google.com/java/sql/ResultSet.html#updateRowId(java.lang.String,%20java.sql.RowId))([String](http://docs.google.com/java/lang/String.html) columnLabel, [RowId](http://docs.google.com/java/sql/RowId.html) x)            Updates the designated column with a RowId value. |
| boolean | **DatabaseMetaData.**[**updatesAreDetected**](http://docs.google.com/java/sql/DatabaseMetaData.html#updatesAreDetected(int))(int type)            Retrieves whether or not a visible row update can be detected by calling the method ResultSet.rowUpdated. |
| void | **ResultSet.**[**updateShort**](http://docs.google.com/java/sql/ResultSet.html#updateShort(int,%20short))(int columnIndex, short x)            Updates the designated column with a short value. |
| void | **ResultSet.**[**updateShort**](http://docs.google.com/java/sql/ResultSet.html#updateShort(java.lang.String,%20short))([String](http://docs.google.com/java/lang/String.html) columnLabel, short x)            Updates the designated column with a short value. |
| void | **ResultSet.**[**updateSQLXML**](http://docs.google.com/java/sql/ResultSet.html#updateSQLXML(int,%20java.sql.SQLXML))(int columnIndex, [SQLXML](http://docs.google.com/java/sql/SQLXML.html) xmlObject)            Updates the designated column with a java.sql.SQLXML value. |
| void | **ResultSet.**[**updateSQLXML**](http://docs.google.com/java/sql/ResultSet.html#updateSQLXML(java.lang.String,%20java.sql.SQLXML))([String](http://docs.google.com/java/lang/String.html) columnLabel, [SQLXML](http://docs.google.com/java/sql/SQLXML.html) xmlObject)            Updates the designated column with a java.sql.SQLXML value. |
| void | **ResultSet.**[**updateString**](http://docs.google.com/java/sql/ResultSet.html#updateString(int,%20java.lang.String))(int columnIndex, [String](http://docs.google.com/java/lang/String.html) x)            Updates the designated column with a String value. |
| void | **ResultSet.**[**updateString**](http://docs.google.com/java/sql/ResultSet.html#updateString(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) columnLabel, [String](http://docs.google.com/java/lang/String.html) x)            Updates the designated column with a String value. |
| void | **ResultSet.**[**updateTime**](http://docs.google.com/java/sql/ResultSet.html#updateTime(int,%20java.sql.Time))(int columnIndex, [Time](http://docs.google.com/java/sql/Time.html) x)            Updates the designated column with a java.sql.Time value. |
| void | **ResultSet.**[**updateTime**](http://docs.google.com/java/sql/ResultSet.html#updateTime(java.lang.String,%20java.sql.Time))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Time](http://docs.google.com/java/sql/Time.html) x)            Updates the designated column with a java.sql.Time value. |
| void | **ResultSet.**[**updateTimestamp**](http://docs.google.com/java/sql/ResultSet.html#updateTimestamp(int,%20java.sql.Timestamp))(int columnIndex, [Timestamp](http://docs.google.com/java/sql/Timestamp.html) x)            Updates the designated column with a java.sql.Timestamp value. |
| void | **ResultSet.**[**updateTimestamp**](http://docs.google.com/java/sql/ResultSet.html#updateTimestamp(java.lang.String,%20java.sql.Timestamp))([String](http://docs.google.com/java/lang/String.html) columnLabel, [Timestamp](http://docs.google.com/java/sql/Timestamp.html) x)            Updates the designated column with a java.sql.Timestamp value. |
| boolean | **DatabaseMetaData.**[**usesLocalFilePerTable**](http://docs.google.com/java/sql/DatabaseMetaData.html#usesLocalFilePerTable())()            Retrieves whether this database uses a file for each table. |
| boolean | **DatabaseMetaData.**[**usesLocalFiles**](http://docs.google.com/java/sql/DatabaseMetaData.html#usesLocalFiles())()            Retrieves whether this database stores tables in a local file. |
| boolean | **SQLInput.**[**wasNull**](http://docs.google.com/java/sql/SQLInput.html#wasNull())()            Retrieves whether the last value read was SQL NULL. |
| boolean | **CallableStatement.**[**wasNull**](http://docs.google.com/java/sql/CallableStatement.html#wasNull())()            Retrieves whether the last OUT parameter read had the value of SQL NULL. |
| boolean | **ResultSet.**[**wasNull**](http://docs.google.com/java/sql/ResultSet.html#wasNull())()            Reports whether the last column read had a value of SQL NULL. |
| void | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **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. |
| void | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLData.**[**writeSQL**](http://docs.google.com/java/sql/SQLData.html#writeSQL(java.sql.SQLOutput))([SQLOutput](http://docs.google.com/java/sql/SQLOutput.html) stream)            Writes this object to the given SQL data stream, converting it back to its SQL value in the data source. |
| void | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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 | **SQLOutput.**[**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. |

| Uses of [SQLException](http://docs.google.com/java/sql/SQLException.html) in [javax.sql](http://docs.google.com/javax/sql/package-summary.html) | |
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| Methods in [javax.sql](http://docs.google.com/javax/sql/package-summary.html) that return [SQLException](http://docs.google.com/java/sql/SQLException.html) | |
| --- | --- |
| [SQLException](http://docs.google.com/java/sql/SQLException.html) | **StatementEvent.**[**getSQLException**](http://docs.google.com/javax/sql/StatementEvent.html#getSQLException())()            Returns the SQLException the driver is about to throw |
| [SQLException](http://docs.google.com/java/sql/SQLException.html) | **ConnectionEvent.**[**getSQLException**](http://docs.google.com/javax/sql/ConnectionEvent.html#getSQLException())()            Retrieves the SQLException for this ConnectionEvent object. |

| Methods in [javax.sql](http://docs.google.com/javax/sql/package-summary.html) that throw [SQLException](http://docs.google.com/java/sql/SQLException.html) | |
| --- | --- |
| void | **RowSet.**[**clearParameters**](http://docs.google.com/javax/sql/RowSet.html#clearParameters())()            Clears the parameters set for this RowSet object's command. |
| void | **PooledConnection.**[**close**](http://docs.google.com/javax/sql/PooledConnection.html#close())()            Closes the physical connection that this PooledConnection object represents. |
| void | **RowSet.**[**execute**](http://docs.google.com/javax/sql/RowSet.html#execute())()            Fills this RowSet object with data. |
| [Connection](http://docs.google.com/java/sql/Connection.html) | **RowSetInternal.**[**getConnection**](http://docs.google.com/javax/sql/RowSetInternal.html#getConnection())()            Retrieves the Connection object that was passed to this RowSet object. |
| [Connection](http://docs.google.com/java/sql/Connection.html) | **DataSource.**[**getConnection**](http://docs.google.com/javax/sql/DataSource.html#getConnection())()            Attempts to establish a connection with the data source that this DataSource object represents. |
| [Connection](http://docs.google.com/java/sql/Connection.html) | **PooledConnection.**[**getConnection**](http://docs.google.com/javax/sql/PooledConnection.html#getConnection())()            Creates and returns a Connection object that is a handle for the physical connection that this PooledConnection object represents. |
| [Connection](http://docs.google.com/java/sql/Connection.html) | **DataSource.**[**getConnection**](http://docs.google.com/javax/sql/DataSource.html#getConnection(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) username, [String](http://docs.google.com/java/lang/String.html) password)            Attempts to establish a connection with the data source that this DataSource object represents. |
| boolean | **RowSet.**[**getEscapeProcessing**](http://docs.google.com/javax/sql/RowSet.html#getEscapeProcessing())()            Retrieves whether escape processing is enabled for this RowSet object. |
| int | **CommonDataSource.**[**getLoginTimeout**](http://docs.google.com/javax/sql/CommonDataSource.html#getLoginTimeout())()            Gets the maximum time in seconds that this data source can wait while attempting to connect to a database. |
| [PrintWriter](http://docs.google.com/java/io/PrintWriter.html) | **CommonDataSource.**[**getLogWriter**](http://docs.google.com/javax/sql/CommonDataSource.html#getLogWriter())()            Retrieves the log writer for this DataSource object. |
| int | **RowSet.**[**getMaxFieldSize**](http://docs.google.com/javax/sql/RowSet.html#getMaxFieldSize())()            Retrieves the maximum number of bytes that may be returned for certain column values. |
| int | **RowSet.**[**getMaxRows**](http://docs.google.com/javax/sql/RowSet.html#getMaxRows())()            Retrieves the maximum number of rows that this RowSet object can contain. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **RowSetInternal.**[**getOriginal**](http://docs.google.com/javax/sql/RowSetInternal.html#getOriginal())()            Retrieves a ResultSet object containing the original value of this RowSet object. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **RowSetInternal.**[**getOriginalRow**](http://docs.google.com/javax/sql/RowSetInternal.html#getOriginalRow())()            Retrieves a ResultSet object containing the original value of the current row only. |
| [Object](http://docs.google.com/java/lang/Object.html)[] | **RowSetInternal.**[**getParams**](http://docs.google.com/javax/sql/RowSetInternal.html#getParams())()            Retrieves the parameters that have been set for this RowSet object's command. |
| [PooledConnection](http://docs.google.com/javax/sql/PooledConnection.html) | **ConnectionPoolDataSource.**[**getPooledConnection**](http://docs.google.com/javax/sql/ConnectionPoolDataSource.html#getPooledConnection())()            Attempts to establish a physical database connection that can be used as a pooled connection. |
| [PooledConnection](http://docs.google.com/javax/sql/PooledConnection.html) | **ConnectionPoolDataSource.**[**getPooledConnection**](http://docs.google.com/javax/sql/ConnectionPoolDataSource.html#getPooledConnection(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) user, [String](http://docs.google.com/java/lang/String.html) password)            Attempts to establish a physical database connection that can be used as a pooled connection. |
| int | **RowSet.**[**getQueryTimeout**](http://docs.google.com/javax/sql/RowSet.html#getQueryTimeout())()            Retrieves the maximum number of seconds the driver will wait for a statement to execute. |
| [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> | **RowSet.**[**getTypeMap**](http://docs.google.com/javax/sql/RowSet.html#getTypeMap())()            Retrieves the Map object associated with this RowSet object, which specifies the custom mapping of SQL user-defined types, if any. |
| [String](http://docs.google.com/java/lang/String.html) | **RowSet.**[**getUrl**](http://docs.google.com/javax/sql/RowSet.html#getUrl())()            Retrieves the url property this RowSet object will use to create a connection if it uses the DriverManager instead of a DataSource object to establish the connection. |
| [XAConnection](http://docs.google.com/javax/sql/XAConnection.html) | **XADataSource.**[**getXAConnection**](http://docs.google.com/javax/sql/XADataSource.html#getXAConnection())()            Attempts to establish a physical database connection that can be used in a distributed transaction. |
| [XAConnection](http://docs.google.com/javax/sql/XAConnection.html) | **XADataSource.**[**getXAConnection**](http://docs.google.com/javax/sql/XADataSource.html#getXAConnection(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) user, [String](http://docs.google.com/java/lang/String.html) password)            Attempts to establish a physical database connection, using the given user name and password. |
| [XAResource](http://docs.google.com/javax/transaction/xa/XAResource.html) | **XAConnection.**[**getXAResource**](http://docs.google.com/javax/sql/XAConnection.html#getXAResource())()            Retrieves an XAResource object that the transaction manager will use to manage this XAConnection object's participation in a distributed transaction. |
| void | **RowSetReader.**[**readData**](http://docs.google.com/javax/sql/RowSetReader.html#readData(javax.sql.RowSetInternal))([RowSetInternal](http://docs.google.com/javax/sql/RowSetInternal.html) caller)            Reads the new contents of the calling RowSet object. |
| void | **RowSet.**[**setArray**](http://docs.google.com/javax/sql/RowSet.html#setArray(int,%20java.sql.Array))(int i, [Array](http://docs.google.com/java/sql/Array.html) x)            Sets the designated parameter in this RowSet object's command with the given Array value. |
| void | **RowSet.**[**setAsciiStream**](http://docs.google.com/javax/sql/RowSet.html#setAsciiStream(int,%20java.io.InputStream))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Sets the designated parameter in this RowSet object's command to the given input stream. |
| void | **RowSet.**[**setAsciiStream**](http://docs.google.com/javax/sql/RowSet.html#setAsciiStream(int,%20java.io.InputStream,%20int))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Sets the designated parameter in this RowSet object's command to the given java.io.InputStream value. |
| void | **RowSet.**[**setAsciiStream**](http://docs.google.com/javax/sql/RowSet.html#setAsciiStream(java.lang.String,%20java.io.InputStream))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Sets the designated parameter to the given input stream. |
| void | **RowSet.**[**setAsciiStream**](http://docs.google.com/javax/sql/RowSet.html#setAsciiStream(java.lang.String,%20java.io.InputStream,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Sets the designated parameter to the given input stream, which will have the specified number of bytes. |
| void | **RowSetMetaData.**[**setAutoIncrement**](http://docs.google.com/javax/sql/RowSetMetaData.html#setAutoIncrement(int,%20boolean))(int columnIndex, boolean property)            Sets whether the designated column is automatically numbered, The default is for a RowSet object's columns not to be automatically numbered. |
| void | **RowSet.**[**setBigDecimal**](http://docs.google.com/javax/sql/RowSet.html#setBigDecimal(int,%20java.math.BigDecimal))(int parameterIndex, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Sets the designated parameter in this RowSet object's command to the given java.math.BigDeciaml value. |
| void | **RowSet.**[**setBigDecimal**](http://docs.google.com/javax/sql/RowSet.html#setBigDecimal(java.lang.String,%20java.math.BigDecimal))([String](http://docs.google.com/java/lang/String.html) parameterName, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Sets the designated parameter to the given java.math.BigDecimal value. |
| void | **RowSet.**[**setBinaryStream**](http://docs.google.com/javax/sql/RowSet.html#setBinaryStream(int,%20java.io.InputStream))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Sets the designated parameter in this RowSet object's command to the given input stream. |
| void | **RowSet.**[**setBinaryStream**](http://docs.google.com/javax/sql/RowSet.html#setBinaryStream(int,%20java.io.InputStream,%20int))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Sets the designated parameter in this RowSet object's command to the given java.io.InputStream value. |
| void | **RowSet.**[**setBinaryStream**](http://docs.google.com/javax/sql/RowSet.html#setBinaryStream(java.lang.String,%20java.io.InputStream))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Sets the designated parameter to the given input stream. |
| void | **RowSet.**[**setBinaryStream**](http://docs.google.com/javax/sql/RowSet.html#setBinaryStream(java.lang.String,%20java.io.InputStream,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Sets the designated parameter to the given input stream, which will have the specified number of bytes. |
| void | **RowSet.**[**setBlob**](http://docs.google.com/javax/sql/RowSet.html#setBlob(int,%20java.sql.Blob))(int i, [Blob](http://docs.google.com/java/sql/Blob.html) x)            Sets the designated parameter in this RowSet object's command with the given Blob value. |
| void | **RowSet.**[**setBlob**](http://docs.google.com/javax/sql/RowSet.html#setBlob(int,%20java.io.InputStream))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream)            Sets the designated parameter to a InputStream object. |
| void | **RowSet.**[**setBlob**](http://docs.google.com/javax/sql/RowSet.html#setBlob(int,%20java.io.InputStream,%20long))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream, long length)            Sets the designated parameter to a InputStream object. |
| void | **RowSet.**[**setBlob**](http://docs.google.com/javax/sql/RowSet.html#setBlob(java.lang.String,%20java.sql.Blob))([String](http://docs.google.com/java/lang/String.html) parameterName, [Blob](http://docs.google.com/java/sql/Blob.html) x)            Sets the designated parameter to the given java.sql.Blob object. |
| void | **RowSet.**[**setBlob**](http://docs.google.com/javax/sql/RowSet.html#setBlob(java.lang.String,%20java.io.InputStream))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream)            Sets the designated parameter to a InputStream object. |
| void | **RowSet.**[**setBlob**](http://docs.google.com/javax/sql/RowSet.html#setBlob(java.lang.String,%20java.io.InputStream,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream, long length)            Sets the designated parameter to a InputStream object. |
| void | **RowSet.**[**setBoolean**](http://docs.google.com/javax/sql/RowSet.html#setBoolean(int,%20boolean))(int parameterIndex, boolean x)            Sets the designated parameter in this RowSet object's command to the given Java boolean value. |
| void | **RowSet.**[**setBoolean**](http://docs.google.com/javax/sql/RowSet.html#setBoolean(java.lang.String,%20boolean))([String](http://docs.google.com/java/lang/String.html) parameterName, boolean x)            Sets the designated parameter to the given Java boolean value. |
| void | **RowSet.**[**setByte**](http://docs.google.com/javax/sql/RowSet.html#setByte(int,%20byte))(int parameterIndex, byte x)            Sets the designated parameter in this RowSet object's command to the given Java byte value. |
| void | **RowSet.**[**setByte**](http://docs.google.com/javax/sql/RowSet.html#setByte(java.lang.String,%20byte))([String](http://docs.google.com/java/lang/String.html) parameterName, byte x)            Sets the designated parameter to the given Java byte value. |
| void | **RowSet.**[**setBytes**](http://docs.google.com/javax/sql/RowSet.html#setBytes(int,%20byte%5B%5D))(int parameterIndex, byte[] x)            Sets the designated parameter in this RowSet object's command to the given Java array of byte values. |
| void | **RowSet.**[**setBytes**](http://docs.google.com/javax/sql/RowSet.html#setBytes(java.lang.String,%20byte%5B%5D))([String](http://docs.google.com/java/lang/String.html) parameterName, byte[] x)            Sets the designated parameter to the given Java array of bytes. |
| void | **RowSetMetaData.**[**setCaseSensitive**](http://docs.google.com/javax/sql/RowSetMetaData.html#setCaseSensitive(int,%20boolean))(int columnIndex, boolean property)            Sets whether the designated column is case sensitive. |
| void | **RowSetMetaData.**[**setCatalogName**](http://docs.google.com/javax/sql/RowSetMetaData.html#setCatalogName(int,%20java.lang.String))(int columnIndex, [String](http://docs.google.com/java/lang/String.html) catalogName)            Sets the designated column's table's catalog name, if any, to the given String. |
| void | **RowSet.**[**setCharacterStream**](http://docs.google.com/javax/sql/RowSet.html#setCharacterStream(int,%20java.io.Reader))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter in this RowSet object's command to the given Reader object. |
| void | **RowSet.**[**setCharacterStream**](http://docs.google.com/javax/sql/RowSet.html#setCharacterStream(int,%20java.io.Reader,%20int))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader, int length)            Sets the designated parameter in this RowSet object's command to the given java.io.Reader value. |
| void | **RowSet.**[**setCharacterStream**](http://docs.google.com/javax/sql/RowSet.html#setCharacterStream(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to the given Reader object. |
| void | **RowSet.**[**setCharacterStream**](http://docs.google.com/javax/sql/RowSet.html#setCharacterStream(java.lang.String,%20java.io.Reader,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader, int length)            Sets the designated parameter to the given Reader object, which is the given number of characters long. |
| void | **RowSet.**[**setClob**](http://docs.google.com/javax/sql/RowSet.html#setClob(int,%20java.sql.Clob))(int i, [Clob](http://docs.google.com/java/sql/Clob.html) x)            Sets the designated parameter in this RowSet object's command with the given Clob value. |
| void | **RowSet.**[**setClob**](http://docs.google.com/javax/sql/RowSet.html#setClob(int,%20java.io.Reader))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to a Reader object. |
| void | **RowSet.**[**setClob**](http://docs.google.com/javax/sql/RowSet.html#setClob(int,%20java.io.Reader,%20long))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Sets the designated parameter to a Reader object. |
| void | **RowSet.**[**setClob**](http://docs.google.com/javax/sql/RowSet.html#setClob(java.lang.String,%20java.sql.Clob))([String](http://docs.google.com/java/lang/String.html) parameterName, [Clob](http://docs.google.com/java/sql/Clob.html) x)            Sets the designated parameter to the given java.sql.Clob object. |
| void | **RowSet.**[**setClob**](http://docs.google.com/javax/sql/RowSet.html#setClob(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to a Reader object. |
| void | **RowSet.**[**setClob**](http://docs.google.com/javax/sql/RowSet.html#setClob(java.lang.String,%20java.io.Reader,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Sets the designated parameter to a Reader object. |
| void | **RowSetMetaData.**[**setColumnCount**](http://docs.google.com/javax/sql/RowSetMetaData.html#setColumnCount(int))(int columnCount)            Sets the number of columns in the RowSet object to the given number. |
| void | **RowSetMetaData.**[**setColumnDisplaySize**](http://docs.google.com/javax/sql/RowSetMetaData.html#setColumnDisplaySize(int,%20int))(int columnIndex, int size)            Sets the designated column's normal maximum width in chars to the given int. |
| void | **RowSetMetaData.**[**setColumnLabel**](http://docs.google.com/javax/sql/RowSetMetaData.html#setColumnLabel(int,%20java.lang.String))(int columnIndex, [String](http://docs.google.com/java/lang/String.html) label)            Sets the suggested column title for use in printouts and displays, if any, to the given String. |
| void | **RowSetMetaData.**[**setColumnName**](http://docs.google.com/javax/sql/RowSetMetaData.html#setColumnName(int,%20java.lang.String))(int columnIndex, [String](http://docs.google.com/java/lang/String.html) columnName)            Sets the name of the designated column to the given String. |
| void | **RowSetMetaData.**[**setColumnType**](http://docs.google.com/javax/sql/RowSetMetaData.html#setColumnType(int,%20int))(int columnIndex, int SQLType)            Sets the designated column's SQL type to the one given. |
| void | **RowSetMetaData.**[**setColumnTypeName**](http://docs.google.com/javax/sql/RowSetMetaData.html#setColumnTypeName(int,%20java.lang.String))(int columnIndex, [String](http://docs.google.com/java/lang/String.html) typeName)            Sets the designated column's type name that is specific to the data source, if any, to the given String. |
| void | **RowSet.**[**setCommand**](http://docs.google.com/javax/sql/RowSet.html#setCommand(java.lang.String))([String](http://docs.google.com/java/lang/String.html) cmd)            Sets this RowSet object's command property to the given SQL query. |
| void | **RowSet.**[**setConcurrency**](http://docs.google.com/javax/sql/RowSet.html#setConcurrency(int))(int concurrency)            Sets the concurrency of this RowSet object to the given concurrency level. |
| void | **RowSetMetaData.**[**setCurrency**](http://docs.google.com/javax/sql/RowSetMetaData.html#setCurrency(int,%20boolean))(int columnIndex, boolean property)            Sets whether the designated column is a cash value. |
| void | **RowSet.**[**setDataSourceName**](http://docs.google.com/javax/sql/RowSet.html#setDataSourceName(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Sets the data source name property for this RowSet object to the given String. |
| void | **RowSet.**[**setDate**](http://docs.google.com/javax/sql/RowSet.html#setDate(int,%20java.sql.Date))(int parameterIndex, [Date](http://docs.google.com/java/sql/Date.html) x)            Sets the designated parameter in this RowSet object's command to the given java.sql.Date value. |
| void | **RowSet.**[**setDate**](http://docs.google.com/javax/sql/RowSet.html#setDate(int,%20java.sql.Date,%20java.util.Calendar))(int parameterIndex, [Date](http://docs.google.com/java/sql/Date.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter in this RowSet object's command with the given java.sql.Date value. |
| void | **RowSet.**[**setDate**](http://docs.google.com/javax/sql/RowSet.html#setDate(java.lang.String,%20java.sql.Date))([String](http://docs.google.com/java/lang/String.html) parameterName, [Date](http://docs.google.com/java/sql/Date.html) x)            Sets the designated parameter to the given java.sql.Date value using the default time zone of the virtual machine that is running the application. |
| void | **RowSet.**[**setDate**](http://docs.google.com/javax/sql/RowSet.html#setDate(java.lang.String,%20java.sql.Date,%20java.util.Calendar))([String](http://docs.google.com/java/lang/String.html) parameterName, [Date](http://docs.google.com/java/sql/Date.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter to the given java.sql.Date value, using the given Calendar object. |
| void | **RowSet.**[**setDouble**](http://docs.google.com/javax/sql/RowSet.html#setDouble(int,%20double))(int parameterIndex, double x)            Sets the designated parameter in this RowSet object's command to the given Java double value. |
| void | **RowSet.**[**setDouble**](http://docs.google.com/javax/sql/RowSet.html#setDouble(java.lang.String,%20double))([String](http://docs.google.com/java/lang/String.html) parameterName, double x)            Sets the designated parameter to the given Java double value. |
| void | **RowSet.**[**setEscapeProcessing**](http://docs.google.com/javax/sql/RowSet.html#setEscapeProcessing(boolean))(boolean enable)            Sets escape processing for this RowSet object on or off. |
| void | **RowSet.**[**setFloat**](http://docs.google.com/javax/sql/RowSet.html#setFloat(int,%20float))(int parameterIndex, float x)            Sets the designated parameter in this RowSet object's command to the given Java float value. |
| void | **RowSet.**[**setFloat**](http://docs.google.com/javax/sql/RowSet.html#setFloat(java.lang.String,%20float))([String](http://docs.google.com/java/lang/String.html) parameterName, float x)            Sets the designated parameter to the given Java float value. |
| void | **RowSet.**[**setInt**](http://docs.google.com/javax/sql/RowSet.html#setInt(int,%20int))(int parameterIndex, int x)            Sets the designated parameter in this RowSet object's command to the given Java int value. |
| void | **RowSet.**[**setInt**](http://docs.google.com/javax/sql/RowSet.html#setInt(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, int x)            Sets the designated parameter to the given Java int value. |
| void | **CommonDataSource.**[**setLoginTimeout**](http://docs.google.com/javax/sql/CommonDataSource.html#setLoginTimeout(int))(int seconds)            Sets the maximum time in seconds that this data source will wait while attempting to connect to a database. |
| void | **CommonDataSource.**[**setLogWriter**](http://docs.google.com/javax/sql/CommonDataSource.html#setLogWriter(java.io.PrintWriter))([PrintWriter](http://docs.google.com/java/io/PrintWriter.html) out)            Sets the log writer for this DataSource object to the given java.io.PrintWriter object. |
| void | **RowSet.**[**setLong**](http://docs.google.com/javax/sql/RowSet.html#setLong(int,%20long))(int parameterIndex, long x)            Sets the designated parameter in this RowSet object's command to the given Java long value. |
| void | **RowSet.**[**setLong**](http://docs.google.com/javax/sql/RowSet.html#setLong(java.lang.String,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, long x)            Sets the designated parameter to the given Java long value. |
| void | **RowSet.**[**setMaxFieldSize**](http://docs.google.com/javax/sql/RowSet.html#setMaxFieldSize(int))(int max)            Sets the maximum number of bytes that can be returned for a column value to the given number of bytes. |
| void | **RowSet.**[**setMaxRows**](http://docs.google.com/javax/sql/RowSet.html#setMaxRows(int))(int max)            Sets the maximum number of rows that this RowSet object can contain to the specified number. |
| void | **RowSetInternal.**[**setMetaData**](http://docs.google.com/javax/sql/RowSetInternal.html#setMetaData(javax.sql.RowSetMetaData))([RowSetMetaData](http://docs.google.com/javax/sql/RowSetMetaData.html) md)            Sets the given RowSetMetaData object as the RowSetMetaData object for this RowSet object. |
| void | **RowSet.**[**setNCharacterStream**](http://docs.google.com/javax/sql/RowSet.html#setNCharacterStream(int,%20java.io.Reader))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) value)            Sets the designated parameter in this RowSet object's command to a Reader object. |
| void | **RowSet.**[**setNCharacterStream**](http://docs.google.com/javax/sql/RowSet.html#setNCharacterStream(int,%20java.io.Reader,%20long))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) value, long length)            Sets the designated parameter to a Reader object. |
| void | **RowSet.**[**setNCharacterStream**](http://docs.google.com/javax/sql/RowSet.html#setNCharacterStream(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) value)            Sets the designated parameter to a Reader object. |
| void | **RowSet.**[**setNCharacterStream**](http://docs.google.com/javax/sql/RowSet.html#setNCharacterStream(java.lang.String,%20java.io.Reader,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) value, long length)            Sets the designated parameter to a Reader object. |
| void | **RowSet.**[**setNClob**](http://docs.google.com/javax/sql/RowSet.html#setNClob(int,%20java.sql.NClob))(int parameterIndex, [NClob](http://docs.google.com/java/sql/NClob.html) value)            Sets the designated parameter to a java.sql.NClob object. |
| void | **RowSet.**[**setNClob**](http://docs.google.com/javax/sql/RowSet.html#setNClob(int,%20java.io.Reader))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to a Reader object. |
| void | **RowSet.**[**setNClob**](http://docs.google.com/javax/sql/RowSet.html#setNClob(int,%20java.io.Reader,%20long))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Sets the designated parameter to a Reader object. |
| void | **RowSet.**[**setNClob**](http://docs.google.com/javax/sql/RowSet.html#setNClob(java.lang.String,%20java.sql.NClob))([String](http://docs.google.com/java/lang/String.html) parameterName, [NClob](http://docs.google.com/java/sql/NClob.html) value)            Sets the designated parameter to a java.sql.NClob object. |
| void | **RowSet.**[**setNClob**](http://docs.google.com/javax/sql/RowSet.html#setNClob(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to a Reader object. |
| void | **RowSet.**[**setNClob**](http://docs.google.com/javax/sql/RowSet.html#setNClob(java.lang.String,%20java.io.Reader,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Sets the designated parameter to a Reader object. |
| void | **RowSet.**[**setNString**](http://docs.google.com/javax/sql/RowSet.html#setNString(int,%20java.lang.String))(int parameterIndex, [String](http://docs.google.com/java/lang/String.html) value)            Sets the designated paramter to the given String object. |
| void | **RowSet.**[**setNString**](http://docs.google.com/javax/sql/RowSet.html#setNString(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName, [String](http://docs.google.com/java/lang/String.html) value)            Sets the designated paramter to the given String object. |
| void | **RowSet.**[**setNull**](http://docs.google.com/javax/sql/RowSet.html#setNull(int,%20int))(int parameterIndex, int sqlType)            Sets the designated parameter in this RowSet object's SQL command to SQL NULL. |
| void | **RowSet.**[**setNull**](http://docs.google.com/javax/sql/RowSet.html#setNull(int,%20int,%20java.lang.String))(int paramIndex, int sqlType, [String](http://docs.google.com/java/lang/String.html) typeName)            Sets the designated parameter in this RowSet object's SQL command to SQL NULL. |
| void | **RowSet.**[**setNull**](http://docs.google.com/javax/sql/RowSet.html#setNull(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, int sqlType)            Sets the designated parameter to SQL NULL. |
| void | **RowSet.**[**setNull**](http://docs.google.com/javax/sql/RowSet.html#setNull(java.lang.String,%20int,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName, int sqlType, [String](http://docs.google.com/java/lang/String.html) typeName)            Sets the designated parameter to SQL NULL. |
| void | **RowSetMetaData.**[**setNullable**](http://docs.google.com/javax/sql/RowSetMetaData.html#setNullable(int,%20int))(int columnIndex, int property)            Sets whether the designated column's value can be set to NULL. |
| void | **RowSet.**[**setObject**](http://docs.google.com/javax/sql/RowSet.html#setObject(int,%20java.lang.Object))(int parameterIndex, [Object](http://docs.google.com/java/lang/Object.html) x)            Sets the designated parameter in this RowSet object's command with a Java Object. |
| void | **RowSet.**[**setObject**](http://docs.google.com/javax/sql/RowSet.html#setObject(int,%20java.lang.Object,%20int))(int parameterIndex, [Object](http://docs.google.com/java/lang/Object.html) x, int targetSqlType)            Sets the designated parameter in this RowSet object's command with a Java Object. |
| void | **RowSet.**[**setObject**](http://docs.google.com/javax/sql/RowSet.html#setObject(int,%20java.lang.Object,%20int,%20int))(int parameterIndex, [Object](http://docs.google.com/java/lang/Object.html) x, int targetSqlType, int scaleOrLength)            Sets the designated parameter in this RowSet object's command with the given Java Object. |
| void | **RowSet.**[**setObject**](http://docs.google.com/javax/sql/RowSet.html#setObject(java.lang.String,%20java.lang.Object))([String](http://docs.google.com/java/lang/String.html) parameterName, [Object](http://docs.google.com/java/lang/Object.html) x)            Sets the value of the designated parameter with the given object. |
| void | **RowSet.**[**setObject**](http://docs.google.com/javax/sql/RowSet.html#setObject(java.lang.String,%20java.lang.Object,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, [Object](http://docs.google.com/java/lang/Object.html) x, int targetSqlType)            Sets the value of the designated parameter with the given object. |
| void | **RowSet.**[**setObject**](http://docs.google.com/javax/sql/RowSet.html#setObject(java.lang.String,%20java.lang.Object,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, [Object](http://docs.google.com/java/lang/Object.html) x, int targetSqlType, int scale)            Sets the value of the designated parameter with the given object. |
| void | **RowSet.**[**setPassword**](http://docs.google.com/javax/sql/RowSet.html#setPassword(java.lang.String))([String](http://docs.google.com/java/lang/String.html) password)            Sets the database password for this RowSet object to the given String. |
| void | **RowSetMetaData.**[**setPrecision**](http://docs.google.com/javax/sql/RowSetMetaData.html#setPrecision(int,%20int))(int columnIndex, int precision)            Sets the designated column's number of decimal digits to the given int. |
| void | **RowSet.**[**setQueryTimeout**](http://docs.google.com/javax/sql/RowSet.html#setQueryTimeout(int))(int seconds)            Sets the maximum time the driver will wait for a statement to execute to the given number of seconds. |
| void | **RowSet.**[**setReadOnly**](http://docs.google.com/javax/sql/RowSet.html#setReadOnly(boolean))(boolean value)            Sets whether this RowSet object is read-only to the given boolean. |
| 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. |
| void | **RowSet.**[**setRowId**](http://docs.google.com/javax/sql/RowSet.html#setRowId(int,%20java.sql.RowId))(int parameterIndex, [RowId](http://docs.google.com/java/sql/RowId.html) x)            Sets the designated parameter to the given java.sql.RowId object. |
| void | **RowSet.**[**setRowId**](http://docs.google.com/javax/sql/RowSet.html#setRowId(java.lang.String,%20java.sql.RowId))([String](http://docs.google.com/java/lang/String.html) parameterName, [RowId](http://docs.google.com/java/sql/RowId.html) x)            Sets the designated parameter to the given java.sql.RowId object. |
| void | **RowSetMetaData.**[**setScale**](http://docs.google.com/javax/sql/RowSetMetaData.html#setScale(int,%20int))(int columnIndex, int scale)            Sets the designated column's number of digits to the right of the decimal point to the given int. |
| void | **RowSetMetaData.**[**setSchemaName**](http://docs.google.com/javax/sql/RowSetMetaData.html#setSchemaName(int,%20java.lang.String))(int columnIndex, [String](http://docs.google.com/java/lang/String.html) schemaName)            Sets the name of the designated column's table's schema, if any, to the given String. |
| void | **RowSetMetaData.**[**setSearchable**](http://docs.google.com/javax/sql/RowSetMetaData.html#setSearchable(int,%20boolean))(int columnIndex, boolean property)            Sets whether the designated column can be used in a where clause. |
| void | **RowSet.**[**setShort**](http://docs.google.com/javax/sql/RowSet.html#setShort(int,%20short))(int parameterIndex, short x)            Sets the designated parameter in this RowSet object's command to the given Java short value. |
| void | **RowSet.**[**setShort**](http://docs.google.com/javax/sql/RowSet.html#setShort(java.lang.String,%20short))([String](http://docs.google.com/java/lang/String.html) parameterName, short x)            Sets the designated parameter to the given Java short value. |
| void | **RowSetMetaData.**[**setSigned**](http://docs.google.com/javax/sql/RowSetMetaData.html#setSigned(int,%20boolean))(int columnIndex, boolean property)            Sets whether the designated column is a signed number. |
| void | **RowSet.**[**setSQLXML**](http://docs.google.com/javax/sql/RowSet.html#setSQLXML(int,%20java.sql.SQLXML))(int parameterIndex, [SQLXML](http://docs.google.com/java/sql/SQLXML.html) xmlObject)            Sets the designated parameter to the given java.sql.SQLXML object. |
| void | **RowSet.**[**setSQLXML**](http://docs.google.com/javax/sql/RowSet.html#setSQLXML(java.lang.String,%20java.sql.SQLXML))([String](http://docs.google.com/java/lang/String.html) parameterName, [SQLXML](http://docs.google.com/java/sql/SQLXML.html) xmlObject)            Sets the designated parameter to the given java.sql.SQLXML object. |
| void | **RowSet.**[**setString**](http://docs.google.com/javax/sql/RowSet.html#setString(int,%20java.lang.String))(int parameterIndex, [String](http://docs.google.com/java/lang/String.html) x)            Sets the designated parameter in this RowSet object's command to the given Java String value. |
| void | **RowSet.**[**setString**](http://docs.google.com/javax/sql/RowSet.html#setString(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName, [String](http://docs.google.com/java/lang/String.html) x)            Sets the designated parameter to the given Java String value. |
| void | **RowSetMetaData.**[**setTableName**](http://docs.google.com/javax/sql/RowSetMetaData.html#setTableName(int,%20java.lang.String))(int columnIndex, [String](http://docs.google.com/java/lang/String.html) tableName)            Sets the designated column's table name, if any, to the given String. |
| void | **RowSet.**[**setTime**](http://docs.google.com/javax/sql/RowSet.html#setTime(int,%20java.sql.Time))(int parameterIndex, [Time](http://docs.google.com/java/sql/Time.html) x)            Sets the designated parameter in this RowSet object's command to the given java.sql.Time value. |
| void | **RowSet.**[**setTime**](http://docs.google.com/javax/sql/RowSet.html#setTime(int,%20java.sql.Time,%20java.util.Calendar))(int parameterIndex, [Time](http://docs.google.com/java/sql/Time.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter in this RowSet object's command with the given java.sql.Time value. |
| void | **RowSet.**[**setTime**](http://docs.google.com/javax/sql/RowSet.html#setTime(java.lang.String,%20java.sql.Time))([String](http://docs.google.com/java/lang/String.html) parameterName, [Time](http://docs.google.com/java/sql/Time.html) x)            Sets the designated parameter to the given java.sql.Time value. |
| void | **RowSet.**[**setTime**](http://docs.google.com/javax/sql/RowSet.html#setTime(java.lang.String,%20java.sql.Time,%20java.util.Calendar))([String](http://docs.google.com/java/lang/String.html) parameterName, [Time](http://docs.google.com/java/sql/Time.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter to the given java.sql.Time value, using the given Calendar object. |
| void | **RowSet.**[**setTimestamp**](http://docs.google.com/javax/sql/RowSet.html#setTimestamp(int,%20java.sql.Timestamp))(int parameterIndex, [Timestamp](http://docs.google.com/java/sql/Timestamp.html) x)            Sets the designated parameter in this RowSet object's command to the given java.sql.Timestamp value. |
| void | **RowSet.**[**setTimestamp**](http://docs.google.com/javax/sql/RowSet.html#setTimestamp(int,%20java.sql.Timestamp,%20java.util.Calendar))(int parameterIndex, [Timestamp](http://docs.google.com/java/sql/Timestamp.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter in this RowSet object's command with the given java.sql.Timestamp value. |
| void | **RowSet.**[**setTimestamp**](http://docs.google.com/javax/sql/RowSet.html#setTimestamp(java.lang.String,%20java.sql.Timestamp))([String](http://docs.google.com/java/lang/String.html) parameterName, [Timestamp](http://docs.google.com/java/sql/Timestamp.html) x)            Sets the designated parameter to the given java.sql.Timestamp value. |
| void | **RowSet.**[**setTimestamp**](http://docs.google.com/javax/sql/RowSet.html#setTimestamp(java.lang.String,%20java.sql.Timestamp,%20java.util.Calendar))([String](http://docs.google.com/java/lang/String.html) parameterName, [Timestamp](http://docs.google.com/java/sql/Timestamp.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter to the given java.sql.Timestamp value, using the given Calendar object. |
| void | **RowSet.**[**setTransactionIsolation**](http://docs.google.com/javax/sql/RowSet.html#setTransactionIsolation(int))(int level)            Sets the transaction isolation level for this RowSet obejct. |
| void | **RowSet.**[**setType**](http://docs.google.com/javax/sql/RowSet.html#setType(int))(int type)            Sets the type of this RowSet object to the given type. |
| void | **RowSet.**[**setTypeMap**](http://docs.google.com/javax/sql/RowSet.html#setTypeMap(java.util.Map))([Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> map)            Installs the given java.util.Map object as the default type map for this RowSet object. |
| void | **RowSet.**[**setURL**](http://docs.google.com/javax/sql/RowSet.html#setURL(int,%20java.net.URL))(int parameterIndex, [URL](http://docs.google.com/java/net/URL.html) x)            Sets the designated parameter to the given java.net.URL value. |
| void | **RowSet.**[**setUrl**](http://docs.google.com/javax/sql/RowSet.html#setUrl(java.lang.String))([String](http://docs.google.com/java/lang/String.html) url)            Sets the URL this RowSet object will use when it uses the DriverManager to create a connection. |
| void | **RowSet.**[**setUsername**](http://docs.google.com/javax/sql/RowSet.html#setUsername(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Sets the username property for this RowSet object to the given String. |
| boolean | **RowSetWriter.**[**writeData**](http://docs.google.com/javax/sql/RowSetWriter.html#writeData(javax.sql.RowSetInternal))([RowSetInternal](http://docs.google.com/javax/sql/RowSetInternal.html) caller)            Writes the changes in this RowSetWriter object's rowset back to the data source from which it got its data. |

| Constructors in [javax.sql](http://docs.google.com/javax/sql/package-summary.html) with parameters of type [SQLException](http://docs.google.com/java/sql/SQLException.html) | |
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| [**ConnectionEvent**](http://docs.google.com/javax/sql/ConnectionEvent.html#ConnectionEvent(javax.sql.PooledConnection,%20java.sql.SQLException))([PooledConnection](http://docs.google.com/javax/sql/PooledConnection.html) con, [SQLException](http://docs.google.com/java/sql/SQLException.html) ex)            Constructs a ConnectionEvent object initialized with the given PooledConnection object and SQLException object. |
| [**StatementEvent**](http://docs.google.com/javax/sql/StatementEvent.html#StatementEvent(javax.sql.PooledConnection,%20java.sql.PreparedStatement,%20java.sql.SQLException))([PooledConnection](http://docs.google.com/javax/sql/PooledConnection.html) con, [PreparedStatement](http://docs.google.com/java/sql/PreparedStatement.html) statement, [SQLException](http://docs.google.com/java/sql/SQLException.html) exception)            Constructs a StatementEvent with the specified PooledConnection, PreparedStatement and SQLException |

| Uses of [SQLException](http://docs.google.com/java/sql/SQLException.html) in [javax.sql.rowset](http://docs.google.com/javax/sql/rowset/package-summary.html) | |
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| Subclasses of [SQLException](http://docs.google.com/java/sql/SQLException.html) in [javax.sql.rowset](http://docs.google.com/javax/sql/rowset/package-summary.html) | |
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| class | [**RowSetWarning**](http://docs.google.com/javax/sql/rowset/RowSetWarning.html)            An extension of SQLException that provides information about database warnings set on RowSet objects. |

| Methods in [javax.sql.rowset](http://docs.google.com/javax/sql/rowset/package-summary.html) that throw [SQLException](http://docs.google.com/java/sql/SQLException.html) | |
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| void | **JoinRowSet.**[**addRowSet**](http://docs.google.com/javax/sql/rowset/JoinRowSet.html#addRowSet(javax.sql.rowset.Joinable))([Joinable](http://docs.google.com/javax/sql/rowset/Joinable.html) rowset)            Adds the given RowSet object to this JoinRowSet object. |
| void | **JoinRowSet.**[**addRowSet**](http://docs.google.com/javax/sql/rowset/JoinRowSet.html#addRowSet(javax.sql.RowSet%5B%5D,%20int%5B%5D))([RowSet](http://docs.google.com/javax/sql/RowSet.html)[] rowset, int[] columnIdx)            Adds one or more RowSet objects contained in the given array of RowSet objects to this JoinRowSet object and sets the match column for each of the RowSet objects to the match columns in the given array of column indexes. |
| void | **JoinRowSet.**[**addRowSet**](http://docs.google.com/javax/sql/rowset/JoinRowSet.html#addRowSet(javax.sql.RowSet%5B%5D,%20java.lang.String%5B%5D))([RowSet](http://docs.google.com/javax/sql/RowSet.html)[] rowset, [String](http://docs.google.com/java/lang/String.html)[] columnName)            Adds one or more RowSet objects contained in the given array of RowSet objects to this JoinRowSet object and sets the match column for each of the RowSet objects to the match columns in the given array of column names. |
| void | **JoinRowSet.**[**addRowSet**](http://docs.google.com/javax/sql/rowset/JoinRowSet.html#addRowSet(javax.sql.RowSet,%20int))([RowSet](http://docs.google.com/javax/sql/RowSet.html) rowset, int columnIdx)            Adds the given RowSet object to this JoinRowSet object and sets the designated column as the match column for the RowSet object. |
| void | **JoinRowSet.**[**addRowSet**](http://docs.google.com/javax/sql/rowset/JoinRowSet.html#addRowSet(javax.sql.RowSet,%20java.lang.String))([RowSet](http://docs.google.com/javax/sql/RowSet.html) rowset, [String](http://docs.google.com/java/lang/String.html) columnName)            Adds *rowset* to this JoinRowSet object and sets the designated column as the match column. |
| void | **BaseRowSet.**[**clearParameters**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#clearParameters())()            Clears all of the current parameter values in this RowSet object's internal representation of the parameters to be set in this RowSet object's command when it is executed. |
| boolean | **CachedRowSet.**[**columnUpdated**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#columnUpdated(int))(int idx)            Indicates whether the designated column in the current row of this CachedRowSet object has been updated. |
| boolean | **CachedRowSet.**[**columnUpdated**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#columnUpdated(java.lang.String))([String](http://docs.google.com/java/lang/String.html) columnName)            Indicates whether the designated column in the current row of this CachedRowSet object has been updated. |
| void | **JdbcRowSet.**[**commit**](http://docs.google.com/javax/sql/rowset/JdbcRowSet.html#commit())()            Each JdbcRowSet contains a Connection object from the ResultSet or JDBC properties passed to it's constructors. |
| void | **CachedRowSet.**[**commit**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#commit())()            Each CachedRowSet object's SyncProvider contains a Connection object from the ResultSet or JDBC properties passed to it's constructors. |
| [CachedRowSet](http://docs.google.com/javax/sql/rowset/CachedRowSet.html) | **CachedRowSet.**[**createCopy**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#createCopy())()            Creates a RowSet object that is a deep copy of the data in this CachedRowSet object. |
| [CachedRowSet](http://docs.google.com/javax/sql/rowset/CachedRowSet.html) | **CachedRowSet.**[**createCopyNoConstraints**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#createCopyNoConstraints())()            Creates a CachedRowSet object that is a deep copy of this CachedRowSet object's data but is independent of it. |
| [CachedRowSet](http://docs.google.com/javax/sql/rowset/CachedRowSet.html) | **CachedRowSet.**[**createCopySchema**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#createCopySchema())()            Creates a CachedRowSet object that is an empty copy of this CachedRowSet object. |
| [RowSet](http://docs.google.com/javax/sql/RowSet.html) | **CachedRowSet.**[**createShared**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#createShared())()            Returns a new RowSet object backed by the same data as that of this CachedRowSet object. |
| boolean | **Predicate.**[**evaluate**](http://docs.google.com/javax/sql/rowset/Predicate.html#evaluate(java.lang.Object,%20int))([Object](http://docs.google.com/java/lang/Object.html) value, int column)            This method is called by a FilteredRowSet object to check whether the value lies between the filtering criterion (or criteria if multiple constraints exist) set using the setFilter() method. |
| boolean | **Predicate.**[**evaluate**](http://docs.google.com/javax/sql/rowset/Predicate.html#evaluate(java.lang.Object,%20java.lang.String))([Object](http://docs.google.com/java/lang/Object.html) value, [String](http://docs.google.com/java/lang/String.html) columnName)            This method is called by the FilteredRowSet object to check whether the value lies between the filtering criteria set using the setFilter method. |
| void | **CachedRowSet.**[**execute**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#execute(java.sql.Connection))([Connection](http://docs.google.com/java/sql/Connection.html) conn)            Populates this CachedRowSet object with data, using the given connection to produce the result set from which the data will be read. |
| boolean | **JdbcRowSet.**[**getAutoCommit**](http://docs.google.com/javax/sql/rowset/JdbcRowSet.html#getAutoCommit())()            Each JdbcRowSet contains a Connection object from the original ResultSet or JDBC properties passed to it. |
| [String](http://docs.google.com/java/lang/String.html) | **RowSetMetaDataImpl.**[**getCatalogName**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#getCatalogName(int))(int columnIndex)            Retrieves the catalog name of the table from which the value in the designated column was derived. |
| [String](http://docs.google.com/java/lang/String.html) | **RowSetMetaDataImpl.**[**getColumnClassName**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#getColumnClassName(int))(int columnIndex)            Retrieves the fully-qualified name of the class in the Java programming language to which a value in the designated column will be mapped. |
| int | **RowSetMetaDataImpl.**[**getColumnCount**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#getColumnCount())()            Retrieves the number of columns in the RowSet object for which this RowSetMetaDataImpl object was created. |
| int | **RowSetMetaDataImpl.**[**getColumnDisplaySize**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#getColumnDisplaySize(int))(int columnIndex)            Retrieves the normal maximum width in chars of the designated column. |
| [String](http://docs.google.com/java/lang/String.html) | **RowSetMetaDataImpl.**[**getColumnLabel**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#getColumnLabel(int))(int columnIndex)            Retrieves the the suggested column title for the designated column for use in printouts and displays. |
| [String](http://docs.google.com/java/lang/String.html) | **RowSetMetaDataImpl.**[**getColumnName**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#getColumnName(int))(int columnIndex)            Retrieves the name of the designated column. |
| int | **RowSetMetaDataImpl.**[**getColumnType**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#getColumnType(int))(int columnIndex)            Retrieves the type code (one of the java.sql.Types constants) for the SQL type of the value stored in the designated column. |
| [String](http://docs.google.com/java/lang/String.html) | **RowSetMetaDataImpl.**[**getColumnTypeName**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#getColumnTypeName(int))(int columnIndex)            Retrieves the DBMS-specific type name for values stored in the designated column. |
| int | **BaseRowSet.**[**getConcurrency**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#getConcurrency())()            Returns the concurrency for this RowSet object. |
| boolean | **BaseRowSet.**[**getEscapeProcessing**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#getEscapeProcessing())()            Ascertains whether escape processing is enabled for this RowSet object. |
| int | **BaseRowSet.**[**getFetchDirection**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#getFetchDirection())()            Retrieves this RowSet object's current setting for the fetch direction. |
| int | **BaseRowSet.**[**getFetchSize**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#getFetchSize())()            Returns the fetch size for this RowSet object. |
| int | **JoinRowSet.**[**getJoinType**](http://docs.google.com/javax/sql/rowset/JoinRowSet.html#getJoinType())()            Returns a int describing the set SQL JOIN type governing this JoinRowSet instance. |
| int[] | **CachedRowSet.**[**getKeyColumns**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#getKeyColumns())()            Returns an array containing one or more column numbers indicating the columns that form a key that uniquely identifies a row in this CachedRowSet object. |
| int[] | **Joinable.**[**getMatchColumnIndexes**](http://docs.google.com/javax/sql/rowset/Joinable.html#getMatchColumnIndexes())()            Retrieves the indexes of the match columns that were set for this RowSet object with the method setMatchColumn(int[] columnIdxes). |
| [String](http://docs.google.com/java/lang/String.html)[] | **Joinable.**[**getMatchColumnNames**](http://docs.google.com/javax/sql/rowset/Joinable.html#getMatchColumnNames())()            Retrieves the names of the match columns that were set for this RowSet object with the method setMatchColumn(String [] columnNames). |
| int | **BaseRowSet.**[**getMaxFieldSize**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#getMaxFieldSize())()            Retrieves the maximum number of bytes that can be used for a column value in this RowSet object. |
| int | **BaseRowSet.**[**getMaxRows**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#getMaxRows())()            Retrieves the maximum number of rows that this RowSet object may contain. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **CachedRowSet.**[**getOriginal**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#getOriginal())()            Returns a ResultSet object containing the original value of this CachedRowSet object. |
| [ResultSet](http://docs.google.com/java/sql/ResultSet.html) | **CachedRowSet.**[**getOriginalRow**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#getOriginalRow())()            Returns a ResultSet object containing the original value for the current row only of this CachedRowSet object. |
| [Object](http://docs.google.com/java/lang/Object.html)[] | **BaseRowSet.**[**getParams**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#getParams())()            Retrieves an array containing the parameter values (both Objects and primitives) that have been set for this RowSet object's command and throws an SQLException object if all parameters have not been set. |
| int | **RowSetMetaDataImpl.**[**getPrecision**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#getPrecision(int))(int columnIndex)            Retrieves the total number of digits for values stored in the designated column. |
| int | **BaseRowSet.**[**getQueryTimeout**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#getQueryTimeout())()            Retrieves the maximum number of seconds the driver will wait for a query to execute. |
| [String](http://docs.google.com/java/lang/String.html)[] | **JoinRowSet.**[**getRowSetNames**](http://docs.google.com/javax/sql/rowset/JoinRowSet.html#getRowSetNames())()            Returns a String array containing the names of the RowSet objects added to this JoinRowSet object. |
| [Collection](http://docs.google.com/java/util/Collection.html)<?> | **JoinRowSet.**[**getRowSets**](http://docs.google.com/javax/sql/rowset/JoinRowSet.html#getRowSets())()            Returns a Collection object containing the RowSet objects that have been added to this JoinRowSet object. |
| [RowSetWarning](http://docs.google.com/javax/sql/rowset/RowSetWarning.html) | **JdbcRowSet.**[**getRowSetWarnings**](http://docs.google.com/javax/sql/rowset/JdbcRowSet.html#getRowSetWarnings())()            Retrieves the first warning reported by calls on this JdbcRowSet object. |
| [RowSetWarning](http://docs.google.com/javax/sql/rowset/RowSetWarning.html) | **CachedRowSet.**[**getRowSetWarnings**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#getRowSetWarnings())()            Retrieves the first warning reported by calls on this RowSet object. |
| int | **RowSetMetaDataImpl.**[**getScale**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#getScale(int))(int columnIndex)            Retrieves the number of digits to the right of the decimal point for values stored in the designated column. |
| [String](http://docs.google.com/java/lang/String.html) | **RowSetMetaDataImpl.**[**getSchemaName**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#getSchemaName(int))(int columnIndex)            Retrieves the schema name of the table from which the value in the designated column was derived. |
| boolean | **JdbcRowSet.**[**getShowDeleted**](http://docs.google.com/javax/sql/rowset/JdbcRowSet.html#getShowDeleted())()            Retrieves a boolean indicating whether rows marked for deletion appear in the set of current rows. |
| boolean | **CachedRowSet.**[**getShowDeleted**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#getShowDeleted())()            Retrieves a boolean indicating whether rows marked for deletion appear in the set of current rows. |
| boolean | **BaseRowSet.**[**getShowDeleted**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#getShowDeleted())()            Retrieves a boolean indicating whether rows marked for deletion appear in the set of current rows. |
| [SyncProvider](http://docs.google.com/javax/sql/rowset/spi/SyncProvider.html) | **CachedRowSet.**[**getSyncProvider**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#getSyncProvider())()            Retrieves the SyncProvider implementation for this CachedRowSet object. |
| [String](http://docs.google.com/java/lang/String.html) | **CachedRowSet.**[**getTableName**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#getTableName())()            Returns an identifier for the object (table) that was used to create this CachedRowSet object. |
| [String](http://docs.google.com/java/lang/String.html) | **RowSetMetaDataImpl.**[**getTableName**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#getTableName(int))(int columnIndex)            Retrieves the name of the table from which the value in the designated column was derived. |
| int | **BaseRowSet.**[**getType**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#getType())()            Returns the type of this RowSet object. |
| [String](http://docs.google.com/java/lang/String.html) | **BaseRowSet.**[**getUrl**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#getUrl())()            Retrieves the JDBC URL that this RowSet object's javax.sql.Reader object uses to make a connection with a relational database using a JDBC technology-enabled driver. |
| [String](http://docs.google.com/java/lang/String.html) | **JoinRowSet.**[**getWhereClause**](http://docs.google.com/javax/sql/rowset/JoinRowSet.html#getWhereClause())()            Return a SQL-like description of the WHERE clause being used in a JoinRowSet object. |
| boolean | **RowSetMetaDataImpl.**[**isAutoIncrement**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#isAutoIncrement(int))(int columnIndex)            Retrieves whether a value stored in the designated column is automatically numbered, and thus readonly. |
| boolean | **RowSetMetaDataImpl.**[**isCaseSensitive**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#isCaseSensitive(int))(int columnIndex)            Indicates whether the case of the designated column's name matters. |
| boolean | **RowSetMetaDataImpl.**[**isCurrency**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#isCurrency(int))(int columnIndex)            Indicates whether a value stored in the designated column is a cash value. |
| boolean | **RowSetMetaDataImpl.**[**isDefinitelyWritable**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#isDefinitelyWritable(int))(int columnIndex)            Indicates whether a write operation on the designated column will definitely succeed. |
| int | **RowSetMetaDataImpl.**[**isNullable**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#isNullable(int))(int columnIndex)            Retrieves a constant indicating whether it is possible to store a NULL value in the designated column. |
| boolean | **RowSetMetaDataImpl.**[**isReadOnly**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#isReadOnly(int))(int columnIndex)            Indicates whether the designated column is definitely not writable, thus readonly. |
| boolean | **RowSetMetaDataImpl.**[**isSearchable**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#isSearchable(int))(int columnIndex)            Indicates whether a value stored in the designated column can be used in a WHERE clause. |
| boolean | **RowSetMetaDataImpl.**[**isSigned**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#isSigned(int))(int columnIndex)            Indicates whether a value stored in the designated column is a signed number. |
| boolean | **RowSetMetaDataImpl.**[**isWrapperFor**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#isWrapperFor(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html)<?> interfaces)            Returns true if this either implements the interface argument or is directly or indirectly a wrapper for an object that does. |
| boolean | **RowSetMetaDataImpl.**[**isWritable**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#isWritable(int))(int columnIndex)            Indicates whether it is possible for a write operation on the designated column to succeed. |
| boolean | **CachedRowSet.**[**nextPage**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#nextPage())()            Increments the current page of the CachedRowSet. |
| protected  void | **BaseRowSet.**[**notifyCursorMoved**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#notifyCursorMoved())()            Notifies all of the listeners registered with this RowSet object that its cursor has moved. |
| protected  void | **BaseRowSet.**[**notifyRowChanged**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#notifyRowChanged())()            Notifies all of the listeners registered with this RowSet object that one of its rows has changed. |
| protected  void | **BaseRowSet.**[**notifyRowSetChanged**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#notifyRowSetChanged())()            Notifies all of the listeners registered with this RowSet object that its entire contents have changed. |
| void | **CachedRowSet.**[**populate**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#populate(java.sql.ResultSet))([ResultSet](http://docs.google.com/java/sql/ResultSet.html) data)            Populates this CachedRowSet object with data from the given ResultSet object. |
| void | **CachedRowSet.**[**populate**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#populate(java.sql.ResultSet,%20int))([ResultSet](http://docs.google.com/java/sql/ResultSet.html) rs, int startRow)            Populates this CachedRowSet object with data from the given ResultSet object. |
| boolean | **CachedRowSet.**[**previousPage**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#previousPage())()            Decrements the current page of the CachedRowSet. |
| void | **WebRowSet.**[**readXml**](http://docs.google.com/javax/sql/rowset/WebRowSet.html#readXml(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) iStream)            Reads a stream based XML input to populate this WebRowSet object. |
| void | **WebRowSet.**[**readXml**](http://docs.google.com/javax/sql/rowset/WebRowSet.html#readXml(java.io.Reader))([Reader](http://docs.google.com/java/io/Reader.html) reader)            Reads a WebRowSet object in its XML format from the given Reader object. |
| void | **CachedRowSet.**[**release**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#release())()            Releases the current contents of this CachedRowSet object and sends a rowSetChanged event to all registered listeners. |
| void | **CachedRowSet.**[**restoreOriginal**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#restoreOriginal())()            Restores this CachedRowSet object to its original value, that is, its value before the last set of changes. |
| void | **JdbcRowSet.**[**rollback**](http://docs.google.com/javax/sql/rowset/JdbcRowSet.html#rollback())()            Each JdbcRowSet contains a Connection object from the original ResultSet or JDBC properties passed to it. |
| void | **CachedRowSet.**[**rollback**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#rollback())()            Each CachedRowSet object's SyncProvider contains a Connection object from the original ResultSet or JDBC properties passed to it. |
| void | **JdbcRowSet.**[**rollback**](http://docs.google.com/javax/sql/rowset/JdbcRowSet.html#rollback(java.sql.Savepoint))([Savepoint](http://docs.google.com/java/sql/Savepoint.html) s)            Each JdbcRowSet contains a Connection object from the original ResultSet or JDBC properties passed to it. |
| void | **CachedRowSet.**[**rollback**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#rollback(java.sql.Savepoint))([Savepoint](http://docs.google.com/java/sql/Savepoint.html) s)            Each CachedRowSet object's SyncProvider contains a Connection object from the original ResultSet or JDBC properties passed to it. |
| void | **CachedRowSet.**[**rowSetPopulated**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#rowSetPopulated(javax.sql.RowSetEvent,%20int))([RowSetEvent](http://docs.google.com/javax/sql/RowSetEvent.html) event, int numRows)            Notifies registered listeners that a RowSet object in the given RowSetEvent object has populated a number of additional rows. |
| void | **BaseRowSet.**[**setArray**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setArray(int,%20java.sql.Array))(int parameterIndex, [Array](http://docs.google.com/java/sql/Array.html) array)            Sets the designated parameter to an Array object in the Java programming language. |
| void | **BaseRowSet.**[**setAsciiStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setAsciiStream(int,%20java.io.InputStream))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Sets the designated parameter in this RowSet object's command to the given input stream. |
| void | **BaseRowSet.**[**setAsciiStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setAsciiStream(int,%20java.io.InputStream,%20int))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Sets the designated parameter to the given java.io.InputStream object, which will have the specified number of bytes. |
| void | **BaseRowSet.**[**setAsciiStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setAsciiStream(java.lang.String,%20java.io.InputStream))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Sets the designated parameter to the given input stream. |
| void | **BaseRowSet.**[**setAsciiStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setAsciiStream(java.lang.String,%20java.io.InputStream,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Sets the designated parameter to the given input stream, which will have the specified number of bytes. |
| void | **JdbcRowSet.**[**setAutoCommit**](http://docs.google.com/javax/sql/rowset/JdbcRowSet.html#setAutoCommit(boolean))(boolean autoCommit)            Each JdbcRowSet contains a Connection object from the original ResultSet or JDBC properties passed to it. |
| void | **RowSetMetaDataImpl.**[**setAutoIncrement**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setAutoIncrement(int,%20boolean))(int columnIndex, boolean property)            Sets whether the designated column is automatically numbered, thus read-only, to the given boolean value. |
| void | **BaseRowSet.**[**setBigDecimal**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBigDecimal(int,%20java.math.BigDecimal))(int parameterIndex, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Sets the designated parameter to the given java.lang.BigDecimal value. |
| void | **BaseRowSet.**[**setBigDecimal**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBigDecimal(java.lang.String,%20java.math.BigDecimal))([String](http://docs.google.com/java/lang/String.html) parameterName, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Sets the designated parameter to the given java.math.BigDecimal value. |
| void | **BaseRowSet.**[**setBinaryStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBinaryStream(int,%20java.io.InputStream))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Sets the designated parameter in this RowSet object's command to the given input stream. |
| void | **BaseRowSet.**[**setBinaryStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBinaryStream(int,%20java.io.InputStream,%20int))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Sets the designated parameter to the given java.io.InputStream object, which will have the specified number of bytes. |
| void | **BaseRowSet.**[**setBinaryStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBinaryStream(java.lang.String,%20java.io.InputStream))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) x)            Sets the designated parameter to the given input stream. |
| void | **BaseRowSet.**[**setBinaryStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBinaryStream(java.lang.String,%20java.io.InputStream,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)            Sets the designated parameter to the given input stream, which will have the specified number of bytes. |
| void | **BaseRowSet.**[**setBlob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBlob(int,%20java.sql.Blob))(int parameterIndex, [Blob](http://docs.google.com/java/sql/Blob.html) x)            Sets the designated parameter to the given Blob object in the Java programming language. |
| void | **BaseRowSet.**[**setBlob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBlob(int,%20java.io.InputStream))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream)            Sets the designated parameter to a InputStream object. |
| void | **BaseRowSet.**[**setBlob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBlob(int,%20java.io.InputStream,%20long))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream, long length)            Sets the designated parameter to a InputStream object. |
| void | **BaseRowSet.**[**setBlob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBlob(java.lang.String,%20java.sql.Blob))([String](http://docs.google.com/java/lang/String.html) parameterName, [Blob](http://docs.google.com/java/sql/Blob.html) x)            Sets the designated parameter to the given java.sql.Blob object. |
| void | **BaseRowSet.**[**setBlob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBlob(java.lang.String,%20java.io.InputStream))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream)            Sets the designated parameter to a InputStream object. |
| void | **BaseRowSet.**[**setBlob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBlob(java.lang.String,%20java.io.InputStream,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, [InputStream](http://docs.google.com/java/io/InputStream.html) inputStream, long length)            Sets the designated parameter to a InputStream object. |
| void | **BaseRowSet.**[**setBoolean**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBoolean(int,%20boolean))(int parameterIndex, boolean x)            Sets the designated parameter to the given boolean in the Java programming language. |
| void | **BaseRowSet.**[**setBoolean**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBoolean(java.lang.String,%20boolean))([String](http://docs.google.com/java/lang/String.html) parameterName, boolean x)            Sets the designated parameter to the given Java boolean value. |
| void | **BaseRowSet.**[**setByte**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setByte(int,%20byte))(int parameterIndex, byte x)            Sets the designated parameter to the given byte in the Java programming language. |
| void | **BaseRowSet.**[**setByte**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setByte(java.lang.String,%20byte))([String](http://docs.google.com/java/lang/String.html) parameterName, byte x)            Sets the designated parameter to the given Java byte value. |
| void | **BaseRowSet.**[**setBytes**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBytes(int,%20byte%5B%5D))(int parameterIndex, byte[] x)            Sets the designated parameter to the given array of bytes. |
| void | **BaseRowSet.**[**setBytes**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBytes(java.lang.String,%20byte%5B%5D))([String](http://docs.google.com/java/lang/String.html) parameterName, byte[] x)            Sets the designated parameter to the given Java array of bytes. |
| void | **RowSetMetaDataImpl.**[**setCaseSensitive**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setCaseSensitive(int,%20boolean))(int columnIndex, boolean property)            Sets whether the name of the designated column is case sensitive to the given boolean. |
| void | **RowSetMetaDataImpl.**[**setCatalogName**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setCatalogName(int,%20java.lang.String))(int columnIndex, [String](http://docs.google.com/java/lang/String.html) catalogName)            Sets the catalog name of the table from which the designated column was derived to *catalogName*. |
| void | **BaseRowSet.**[**setCharacterStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setCharacterStream(int,%20java.io.Reader))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter in this RowSet object's command to the given Reader object. |
| void | **BaseRowSet.**[**setCharacterStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setCharacterStream(int,%20java.io.Reader,%20int))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader, int length)            Sets the designated parameter to the given java.io.Reader object, which will have the specified number of characters. |
| void | **BaseRowSet.**[**setCharacterStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setCharacterStream(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to the given Reader object. |
| void | **BaseRowSet.**[**setCharacterStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setCharacterStream(java.lang.String,%20java.io.Reader,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader, int length)            Sets the designated parameter to the given Reader object, which is the given number of characters long. |
| void | **BaseRowSet.**[**setClob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setClob(int,%20java.sql.Clob))(int parameterIndex, [Clob](http://docs.google.com/java/sql/Clob.html) x)            Sets the designated parameter to the given Clob object in the Java programming language. |
| void | **BaseRowSet.**[**setClob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setClob(int,%20java.io.Reader))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to a Reader object. |
| void | **BaseRowSet.**[**setClob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setClob(int,%20java.io.Reader,%20long))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Sets the designated parameter to a Reader object. |
| void | **BaseRowSet.**[**setClob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setClob(java.lang.String,%20java.sql.Clob))([String](http://docs.google.com/java/lang/String.html) parameterName, [Clob](http://docs.google.com/java/sql/Clob.html) x)            Sets the designated parameter to the given java.sql.Clob object. |
| void | **BaseRowSet.**[**setClob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setClob(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to a Reader object. |
| void | **BaseRowSet.**[**setClob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setClob(java.lang.String,%20java.io.Reader,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Sets the designated parameter to a Reader object. |
| void | **RowSetMetaDataImpl.**[**setColumnCount**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setColumnCount(int))(int columnCount)            Sets to the given number the number of columns in the RowSet object for which this RowSetMetaDataImpl object was created. |
| void | **RowSetMetaDataImpl.**[**setColumnDisplaySize**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setColumnDisplaySize(int,%20int))(int columnIndex, int size)            Sets the normal maximum number of chars in the designated column to the given number. |
| void | **RowSetMetaDataImpl.**[**setColumnLabel**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setColumnLabel(int,%20java.lang.String))(int columnIndex, [String](http://docs.google.com/java/lang/String.html) label)            Sets the suggested column label for use in printouts and displays, if any, to *label*. |
| void | **RowSetMetaDataImpl.**[**setColumnName**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setColumnName(int,%20java.lang.String))(int columnIndex, [String](http://docs.google.com/java/lang/String.html) columnName)            Sets the column name of the designated column to the given name. |
| void | **RowSetMetaDataImpl.**[**setColumnType**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setColumnType(int,%20int))(int columnIndex, int SQLType)            Sets the SQL type code for values stored in the designated column to the given type code from the class java.sql.Types. |
| void | **RowSetMetaDataImpl.**[**setColumnTypeName**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setColumnTypeName(int,%20java.lang.String))(int columnIndex, [String](http://docs.google.com/java/lang/String.html) typeName)            Sets the type name used by the data source for values stored in the designated column to the given type name. |
| void | **BaseRowSet.**[**setCommand**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setCommand(java.lang.String))([String](http://docs.google.com/java/lang/String.html) cmd)            Sets this RowSet object's command property to the given String object and clears the parameters, if any, that were set for the previous command. |
| void | **BaseRowSet.**[**setConcurrency**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setConcurrency(int))(int concurrency)            Sets the concurrency for this RowSet object to the specified concurrency. |
| void | **RowSetMetaDataImpl.**[**setCurrency**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setCurrency(int,%20boolean))(int columnIndex, boolean property)            Sets whether a value stored in the designated column is a cash value to the given boolean. |
| void | **BaseRowSet.**[**setDataSourceName**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setDataSourceName(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Sets the DataSource name property for this RowSet object to the given logical name and sets this RowSet object's Url property to null. |
| void | **BaseRowSet.**[**setDate**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setDate(int,%20java.sql.Date))(int parameterIndex, [Date](http://docs.google.com/java/sql/Date.html) x)            Sets the designated parameter to the given java.sql.Date value. |
| void | **BaseRowSet.**[**setDate**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setDate(int,%20java.sql.Date,%20java.util.Calendar))(int parameterIndex, [Date](http://docs.google.com/java/sql/Date.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter to the given java.sql.Date object. |
| void | **BaseRowSet.**[**setDate**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setDate(java.lang.String,%20java.sql.Date))([String](http://docs.google.com/java/lang/String.html) parameterName, [Date](http://docs.google.com/java/sql/Date.html) x)            Sets the designated parameter to the given java.sql.Date value using the default time zone of the virtual machine that is running the application. |
| void | **BaseRowSet.**[**setDate**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setDate(java.lang.String,%20java.sql.Date,%20java.util.Calendar))([String](http://docs.google.com/java/lang/String.html) parameterName, [Date](http://docs.google.com/java/sql/Date.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter to the given java.sql.Date value, using the given Calendar object. |
| void | **BaseRowSet.**[**setDouble**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setDouble(int,%20double))(int parameterIndex, double x)            Sets the designated parameter to the given double in the Java programming language. |
| void | **BaseRowSet.**[**setDouble**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setDouble(java.lang.String,%20double))([String](http://docs.google.com/java/lang/String.html) parameterName, double x)            Sets the designated parameter to the given Java double value. |
| void | **BaseRowSet.**[**setEscapeProcessing**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setEscapeProcessing(boolean))(boolean enable)            Sets to the given boolean whether or not the driver will scan for escape syntax and do escape substitution before sending SQL statements to the database. |
| void | **BaseRowSet.**[**setFetchDirection**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setFetchDirection(int))(int direction)            Gives the driver a performance hint as to the direction in which the rows in this RowSet object will be processed. |
| void | **BaseRowSet.**[**setFetchSize**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setFetchSize(int))(int rows)            Sets the fetch size for this RowSet object to the given number of rows. |
| void | **FilteredRowSet.**[**setFilter**](http://docs.google.com/javax/sql/rowset/FilteredRowSet.html#setFilter(javax.sql.rowset.Predicate))([Predicate](http://docs.google.com/javax/sql/rowset/Predicate.html) p)            Applies the given Predicate object to this FilteredRowSet object. |
| void | **BaseRowSet.**[**setFloat**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setFloat(int,%20float))(int parameterIndex, float x)            Sets the designated parameter to the given float in the Java programming language. |
| void | **BaseRowSet.**[**setFloat**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setFloat(java.lang.String,%20float))([String](http://docs.google.com/java/lang/String.html) parameterName, float x)            Sets the designated parameter to the given Java float value. |
| void | **BaseRowSet.**[**setInt**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setInt(int,%20int))(int parameterIndex, int x)            Sets the designated parameter to an int in the Java programming language. |
| void | **BaseRowSet.**[**setInt**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setInt(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, int x)            Sets the designated parameter to the given Java int value. |
| void | **JoinRowSet.**[**setJoinType**](http://docs.google.com/javax/sql/rowset/JoinRowSet.html#setJoinType(int))(int joinType)            Allow the application to adjust the type of JOIN imposed on tables contained within the JoinRowSet object instance. |
| void | **CachedRowSet.**[**setKeyColumns**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#setKeyColumns(int%5B%5D))(int[] keys)            Sets this CachedRowSet object's keyCols field with the given array of column numbers, which forms a key for uniquely identifying a row in this CachedRowSet object. |
| void | **BaseRowSet.**[**setLong**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setLong(int,%20long))(int parameterIndex, long x)            Sets the designated parameter to the given long in the Java programming language. |
| void | **BaseRowSet.**[**setLong**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setLong(java.lang.String,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, long x)            Sets the designated parameter to the given Java long value. |
| void | **Joinable.**[**setMatchColumn**](http://docs.google.com/javax/sql/rowset/Joinable.html#setMatchColumn(int))(int columnIdx)            Sets the designated column as the match column for this RowSet object. |
| void | **Joinable.**[**setMatchColumn**](http://docs.google.com/javax/sql/rowset/Joinable.html#setMatchColumn(int%5B%5D))(int[] columnIdxes)            Sets the designated columns as the match column for this RowSet object. |
| void | **Joinable.**[**setMatchColumn**](http://docs.google.com/javax/sql/rowset/Joinable.html#setMatchColumn(java.lang.String))([String](http://docs.google.com/java/lang/String.html) columnName)            Sets the designated column as the match column for this RowSet object. |
| void | **Joinable.**[**setMatchColumn**](http://docs.google.com/javax/sql/rowset/Joinable.html#setMatchColumn(java.lang.String%5B%5D))([String](http://docs.google.com/java/lang/String.html)[] columnNames)            Sets the designated columns as the match column for this RowSet object. |
| void | **BaseRowSet.**[**setMaxFieldSize**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setMaxFieldSize(int))(int max)            Sets the maximum number of bytes that can be used for a column value in this RowSet object to the given number. |
| void | **BaseRowSet.**[**setMaxRows**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setMaxRows(int))(int max)            Sets the maximum number of rows that this RowSet object may contain to the given number. |
| void | **CachedRowSet.**[**setMetaData**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#setMetaData(javax.sql.RowSetMetaData))([RowSetMetaData](http://docs.google.com/javax/sql/RowSetMetaData.html) md)            Sets the metadata for this CachedRowSet object with the given RowSetMetaData object. |
| void | **BaseRowSet.**[**setNCharacterStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNCharacterStream(int,%20java.io.Reader))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) value)            Sets the designated parameter in this RowSet object's command to a Reader object. |
| void | **BaseRowSet.**[**setNCharacterStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNCharacterStream(int,%20java.io.Reader,%20long))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) value, long length)            Sets the designated parameter to a Reader object. |
| void | **BaseRowSet.**[**setNCharacterStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNCharacterStream(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) value)            Sets the designated parameter to a Reader object. |
| void | **BaseRowSet.**[**setNCharacterStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNCharacterStream(java.lang.String,%20java.io.Reader,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) value, long length)            Sets the designated parameter to a Reader object. |
| void | **BaseRowSet.**[**setNClob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNClob(int,%20java.sql.NClob))(int parameterIndex, [NClob](http://docs.google.com/java/sql/NClob.html) value)            Sets the designated parameter to a java.sql.NClob object. |
| void | **BaseRowSet.**[**setNClob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNClob(int,%20java.io.Reader))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to a Reader object. |
| void | **BaseRowSet.**[**setNClob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNClob(int,%20java.io.Reader,%20long))(int parameterIndex, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Sets the designated parameter to a Reader object. |
| void | **BaseRowSet.**[**setNClob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNClob(java.lang.String,%20java.sql.NClob))([String](http://docs.google.com/java/lang/String.html) parameterName, [NClob](http://docs.google.com/java/sql/NClob.html) value)            Sets the designated parameter to a java.sql.NClob object. |
| void | **BaseRowSet.**[**setNClob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNClob(java.lang.String,%20java.io.Reader))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Sets the designated parameter to a Reader object. |
| void | **BaseRowSet.**[**setNClob**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNClob(java.lang.String,%20java.io.Reader,%20long))([String](http://docs.google.com/java/lang/String.html) parameterName, [Reader](http://docs.google.com/java/io/Reader.html) reader, long length)            Sets the designated parameter to a Reader object. |
| void | **BaseRowSet.**[**setNString**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNString(int,%20java.lang.String))(int parameterIndex, [String](http://docs.google.com/java/lang/String.html) value)            Sets the designated paramter to the given String object. |
| void | **BaseRowSet.**[**setNString**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNString(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName, [String](http://docs.google.com/java/lang/String.html) value)            Sets the designated paramter to the given String object. |
| void | **BaseRowSet.**[**setNull**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNull(int,%20int))(int parameterIndex, int sqlType)            Sets the designated parameter to SQL NULL. |
| void | **BaseRowSet.**[**setNull**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNull(int,%20int,%20java.lang.String))(int parameterIndex, int sqlType, [String](http://docs.google.com/java/lang/String.html) typeName)            Sets the designated parameter to SQL NULL. |
| void | **BaseRowSet.**[**setNull**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNull(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, int sqlType)            Sets the designated parameter to SQL NULL. |
| void | **BaseRowSet.**[**setNull**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setNull(java.lang.String,%20int,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName, int sqlType, [String](http://docs.google.com/java/lang/String.html) typeName)            Sets the designated parameter to SQL NULL. |
| void | **RowSetMetaDataImpl.**[**setNullable**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setNullable(int,%20int))(int columnIndex, int property)            Sets whether a value stored in the designated column can be set to NULL to the given constant from the interface ResultSetMetaData. |
| void | **BaseRowSet.**[**setObject**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setObject(int,%20java.lang.Object))(int parameterIndex, [Object](http://docs.google.com/java/lang/Object.html) x)            Sets the designated parameter to an Object in the Java programming language. |
| void | **BaseRowSet.**[**setObject**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setObject(int,%20java.lang.Object,%20int))(int parameterIndex, [Object](http://docs.google.com/java/lang/Object.html) x, int targetSqlType)            Sets the value of the designated parameter with the given Object value. |
| void | **BaseRowSet.**[**setObject**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setObject(int,%20java.lang.Object,%20int,%20int))(int parameterIndex, [Object](http://docs.google.com/java/lang/Object.html) x, int targetSqlType, int scale)            Sets the designated parameter to an Object in the Java programming language. |
| void | **BaseRowSet.**[**setObject**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setObject(java.lang.String,%20java.lang.Object))([String](http://docs.google.com/java/lang/String.html) parameterName, [Object](http://docs.google.com/java/lang/Object.html) x)            Sets the value of the designated parameter with the given object. |
| void | **BaseRowSet.**[**setObject**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setObject(java.lang.String,%20java.lang.Object,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, [Object](http://docs.google.com/java/lang/Object.html) x, int targetSqlType)            Sets the value of the designated parameter with the given object. |
| void | **BaseRowSet.**[**setObject**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setObject(java.lang.String,%20java.lang.Object,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) parameterName, [Object](http://docs.google.com/java/lang/Object.html) x, int targetSqlType, int scale)            Sets the value of the designated parameter with the given object. |
| void | **CachedRowSet.**[**setOriginalRow**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#setOriginalRow())()            Sets the current row in this CachedRowSet object as the original row. |
| void | **CachedRowSet.**[**setPageSize**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#setPageSize(int))(int size)            Sets the CachedRowSet object's page-size. |
| void | **RowSetMetaDataImpl.**[**setPrecision**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setPrecision(int,%20int))(int columnIndex, int precision)            Sets the total number of decimal digits in a value stored in the designated column to the given number. |
| void | **BaseRowSet.**[**setQueryTimeout**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setQueryTimeout(int))(int seconds)            Sets to the given number the maximum number of seconds the driver will wait for a query to execute. |
| 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. |
| void | **BaseRowSet.**[**setRowId**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setRowId(int,%20java.sql.RowId))(int parameterIndex, [RowId](http://docs.google.com/java/sql/RowId.html) x)            Sets the designated parameter to the given java.sql.RowId object. |
| void | **BaseRowSet.**[**setRowId**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setRowId(java.lang.String,%20java.sql.RowId))([String](http://docs.google.com/java/lang/String.html) parameterName, [RowId](http://docs.google.com/java/sql/RowId.html) x)            Sets the designated parameter to the given java.sql.RowId object. |
| void | **RowSetMetaDataImpl.**[**setScale**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setScale(int,%20int))(int columnIndex, int scale)            Sets the number of digits to the right of the decimal point in a value stored in the designated column to the given number. |
| void | **RowSetMetaDataImpl.**[**setSchemaName**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setSchemaName(int,%20java.lang.String))(int columnIndex, [String](http://docs.google.com/java/lang/String.html) schemaName)            Sets the designated column's table's schema name, if any, to *schemaName*. |
| void | **RowSetMetaDataImpl.**[**setSearchable**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setSearchable(int,%20boolean))(int columnIndex, boolean property)            Sets whether a value stored in the designated column can be used in a WHERE clause to the given boolean value. |
| void | **BaseRowSet.**[**setShort**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setShort(int,%20short))(int parameterIndex, short x)            Sets the designated parameter to the given short in the Java programming language. |
| void | **BaseRowSet.**[**setShort**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setShort(java.lang.String,%20short))([String](http://docs.google.com/java/lang/String.html) parameterName, short x)            Sets the designated parameter to the given Java short value. |
| void | **JdbcRowSet.**[**setShowDeleted**](http://docs.google.com/javax/sql/rowset/JdbcRowSet.html#setShowDeleted(boolean))(boolean b)            Sets the property showDeleted to the given boolean value. |
| void | **CachedRowSet.**[**setShowDeleted**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#setShowDeleted(boolean))(boolean b)            Sets the property showDeleted to the given boolean value, which determines whether rows marked for deletion appear in the set of current rows. |
| void | **BaseRowSet.**[**setShowDeleted**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setShowDeleted(boolean))(boolean value)            Sets the property showDeleted to the given boolean value, which determines whether rows marked for deletion appear in the set of current rows. |
| void | **RowSetMetaDataImpl.**[**setSigned**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setSigned(int,%20boolean))(int columnIndex, boolean property)            Sets whether a value stored in the designated column is a signed number to the given boolean. |
| void | **BaseRowSet.**[**setSQLXML**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setSQLXML(int,%20java.sql.SQLXML))(int parameterIndex, [SQLXML](http://docs.google.com/java/sql/SQLXML.html) xmlObject)            Sets the designated parameter to the given java.sql.SQLXML object. |
| void | **BaseRowSet.**[**setSQLXML**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setSQLXML(java.lang.String,%20java.sql.SQLXML))([String](http://docs.google.com/java/lang/String.html) parameterName, [SQLXML](http://docs.google.com/java/sql/SQLXML.html) xmlObject)            Sets the designated parameter to the given java.sql.SQLXML object. |
| void | **BaseRowSet.**[**setString**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setString(int,%20java.lang.String))(int parameterIndex, [String](http://docs.google.com/java/lang/String.html) x)            Sets the designated parameter to the given String value. |
| void | **BaseRowSet.**[**setString**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setString(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName, [String](http://docs.google.com/java/lang/String.html) x)            Sets the designated parameter to the given Java String value. |
| void | **CachedRowSet.**[**setSyncProvider**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#setSyncProvider(java.lang.String))([String](http://docs.google.com/java/lang/String.html) provider)            Sets the SyncProvider objec for this CachedRowSet object to the one specified. |
| void | **RowSetMetaDataImpl.**[**setTableName**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.html#setTableName(int,%20java.lang.String))(int columnIndex, [String](http://docs.google.com/java/lang/String.html) tableName)            Sets the name of the table from which the designated column was derived to the given table name. |
| void | **CachedRowSet.**[**setTableName**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#setTableName(java.lang.String))([String](http://docs.google.com/java/lang/String.html) tabName)            Sets the identifier for the table from which this CachedRowSet object was derived to the given table name. |
| void | **BaseRowSet.**[**setTime**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setTime(int,%20java.sql.Time))(int parameterIndex, [Time](http://docs.google.com/java/sql/Time.html) x)            Sets the designated parameter to the given java.sql.Time value. |
| void | **BaseRowSet.**[**setTime**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setTime(int,%20java.sql.Time,%20java.util.Calendar))(int parameterIndex, [Time](http://docs.google.com/java/sql/Time.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter to the given java.sql.Time object. |
| void | **BaseRowSet.**[**setTime**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setTime(java.lang.String,%20java.sql.Time))([String](http://docs.google.com/java/lang/String.html) parameterName, [Time](http://docs.google.com/java/sql/Time.html) x)            Sets the designated parameter to the given java.sql.Time value. |
| void | **BaseRowSet.**[**setTime**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setTime(java.lang.String,%20java.sql.Time,%20java.util.Calendar))([String](http://docs.google.com/java/lang/String.html) parameterName, [Time](http://docs.google.com/java/sql/Time.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter to the given java.sql.Time value, using the given Calendar object. |
| void | **BaseRowSet.**[**setTimestamp**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setTimestamp(int,%20java.sql.Timestamp))(int parameterIndex, [Timestamp](http://docs.google.com/java/sql/Timestamp.html) x)            Sets the designated parameter to the given java.sql.Timestamp value. |
| void | **BaseRowSet.**[**setTimestamp**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setTimestamp(int,%20java.sql.Timestamp,%20java.util.Calendar))(int parameterIndex, [Timestamp](http://docs.google.com/java/sql/Timestamp.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter to the given java.sql.Timestamp object. |
| void | **BaseRowSet.**[**setTimestamp**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setTimestamp(java.lang.String,%20java.sql.Timestamp))([String](http://docs.google.com/java/lang/String.html) parameterName, [Timestamp](http://docs.google.com/java/sql/Timestamp.html) x)            Sets the designated parameter to the given java.sql.Timestamp value. |
| void | **BaseRowSet.**[**setTimestamp**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setTimestamp(java.lang.String,%20java.sql.Timestamp,%20java.util.Calendar))([String](http://docs.google.com/java/lang/String.html) parameterName, [Timestamp](http://docs.google.com/java/sql/Timestamp.html) x, [Calendar](http://docs.google.com/java/util/Calendar.html) cal)            Sets the designated parameter to the given java.sql.Timestamp value, using the given Calendar object. |
| void | **BaseRowSet.**[**setTransactionIsolation**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setTransactionIsolation(int))(int level)            Sets the transaction isolation property for this JDBC RowSet object to the given constant. |
| void | **BaseRowSet.**[**setType**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setType(int))(int type)            Sets the type for this RowSet object to the specified type. |
| void | **BaseRowSet.**[**setUnicodeStream**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setUnicodeStream(int,%20java.io.InputStream,%20int))(int parameterIndex, [InputStream](http://docs.google.com/java/io/InputStream.html) x, int length)  **Deprecated.** *getCharacterStream should be used in its place* |
| void | **BaseRowSet.**[**setURL**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setURL(int,%20java.net.URL))(int parameterIndex, [URL](http://docs.google.com/java/net/URL.html) x)            Sets the designated parameter to the given java.net.URL value. |
| void | **BaseRowSet.**[**setUrl**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setUrl(java.lang.String))([String](http://docs.google.com/java/lang/String.html) url)            Sets the Url property for this RowSet object to the given String object and sets the dataSource name property to null. |
| [CachedRowSet](http://docs.google.com/javax/sql/rowset/CachedRowSet.html) | **JoinRowSet.**[**toCachedRowSet**](http://docs.google.com/javax/sql/rowset/JoinRowSet.html#toCachedRowSet())()            Creates a new CachedRowSet object containing the data in this JoinRowSet object, which can be saved to a data source using the SyncProvider object for the CachedRowSet object. |
| [Collection](http://docs.google.com/java/util/Collection.html)<?> | **CachedRowSet.**[**toCollection**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#toCollection())()            Converts this CachedRowSet object to a Collection object that contains all of this CachedRowSet object's data. |
| [Collection](http://docs.google.com/java/util/Collection.html)<?> | **CachedRowSet.**[**toCollection**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#toCollection(int))(int column)            Converts the designated column in this CachedRowSet object to a Collection object. |
| [Collection](http://docs.google.com/java/util/Collection.html)<?> | **CachedRowSet.**[**toCollection**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#toCollection(java.lang.String))([String](http://docs.google.com/java/lang/String.html) column)            Converts the designated column in this CachedRowSet object to a Collection object. |
| void | **CachedRowSet.**[**undoDelete**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#undoDelete())()            Cancels the deletion of the current row and notifies listeners that a row has changed. |
| void | **CachedRowSet.**[**undoInsert**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#undoInsert())()            Immediately removes the current row from this CachedRowSet object if the row has been inserted, and also notifies listeners that a row has changed. |
| void | **CachedRowSet.**[**undoUpdate**](http://docs.google.com/javax/sql/rowset/CachedRowSet.html#undoUpdate())()            Immediately reverses the last update operation if the row has been modified. |
| void | **Joinable.**[**unsetMatchColumn**](http://docs.google.com/javax/sql/rowset/Joinable.html#unsetMatchColumn(int))(int columnIdx)            Unsets the designated column as the match column for this RowSet object. |
| void | **Joinable.**[**unsetMatchColumn**](http://docs.google.com/javax/sql/rowset/Joinable.html#unsetMatchColumn(int%5B%5D))(int[] columnIdxes)            Unsets the designated columns as the match column for this RowSet object. |
| void | **Joinable.**[**unsetMatchColumn**](http://docs.google.com/javax/sql/rowset/Joinable.html#unsetMatchColumn(java.lang.String))([String](http://docs.google.com/java/lang/String.html) columnName)            Unsets the designated column as the match column for this RowSet object. |
| void | **Joinable.**[**unsetMatchColumn**](http://docs.google.com/javax/sql/rowset/Joinable.html#unsetMatchColumn(java.lang.String%5B%5D))([String](http://docs.google.com/java/lang/String.html)[] columnName)            Unsets the designated columns as the match columns for this RowSet object. |
| | <T> T | | --- | | **RowSetMetaDataImpl.**[**unwrap**](http://docs.google.com/javax/sql/rowset/RowSetMetaDataImpl.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. |
| void | **WebRowSet.**[**writeXml**](http://docs.google.com/javax/sql/rowset/WebRowSet.html#writeXml(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) oStream)            Writes the data, properties, and metadata for this WebRowSet object to the given OutputStream object in XML format. |
| void | **WebRowSet.**[**writeXml**](http://docs.google.com/javax/sql/rowset/WebRowSet.html#writeXml(java.sql.ResultSet,%20java.io.OutputStream))([ResultSet](http://docs.google.com/java/sql/ResultSet.html) rs, [OutputStream](http://docs.google.com/java/io/OutputStream.html) oStream)            Populates this WebRowSet object with the contents of the given ResultSet object and writes its data, properties, and metadata to the given OutputStream object in XML format. |
| void | **WebRowSet.**[**writeXml**](http://docs.google.com/javax/sql/rowset/WebRowSet.html#writeXml(java.sql.ResultSet,%20java.io.Writer))([ResultSet](http://docs.google.com/java/sql/ResultSet.html) rs, [Writer](http://docs.google.com/java/io/Writer.html) writer)            Populates this WebRowSet object with the contents of the given ResultSet object and writes its data, properties, and metadata to the given Writer object in XML format. |
| void | **WebRowSet.**[**writeXml**](http://docs.google.com/javax/sql/rowset/WebRowSet.html#writeXml(java.io.Writer))([Writer](http://docs.google.com/java/io/Writer.html) writer)            Writes the data, properties, and metadata for this WebRowSet object to the given Writer object in XML format. |

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

| Subclasses of [SQLException](http://docs.google.com/java/sql/SQLException.html) in [javax.sql.rowset.serial](http://docs.google.com/javax/sql/rowset/serial/package-summary.html) | |
| --- | --- |
| class | [**SerialException**](http://docs.google.com/javax/sql/rowset/serial/SerialException.html)            Indicates and an error with the serialization or de-serialization of SQL types such as BLOB, CLOB, STRUCT or ARRAY in addition to SQL types such as DATALINK and JAVAOBJECT |

| Methods in [javax.sql.rowset.serial](http://docs.google.com/javax/sql/rowset/serial/package-summary.html) that throw [SQLException](http://docs.google.com/java/sql/SQLException.html) | |
| --- | --- |
| void | **SerialClob.**[**free**](http://docs.google.com/javax/sql/rowset/serial/SerialClob.html#free())() |
| void | **SerialBlob.**[**free**](http://docs.google.com/javax/sql/rowset/serial/SerialBlob.html#free())()            This method frees the Blob object and releases the resources that it holds. |
| void | **SerialArray.**[**free**](http://docs.google.com/javax/sql/rowset/serial/SerialArray.html#free())()            This method frees the Array object and releases the resources that it holds. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **SerialClob.**[**getAsciiStream**](http://docs.google.com/javax/sql/rowset/serial/SerialClob.html#getAsciiStream())()            Retrieves the CLOB value designated by this SerialClob object as an ascii stream. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **SerialBlob.**[**getBinaryStream**](http://docs.google.com/javax/sql/rowset/serial/SerialBlob.html#getBinaryStream(long,%20long))(long pos, long length)            Returns an InputStream object that contains a partial Blob value, starting with the byte specified by pos, which is length bytes in length. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **SerialClob.**[**getCharacterStream**](http://docs.google.com/javax/sql/rowset/serial/SerialClob.html#getCharacterStream(long,%20long))(long pos, long length) |
| long | **SerialBlob.**[**position**](http://docs.google.com/javax/sql/rowset/serial/SerialBlob.html#position(java.sql.Blob,%20long))([Blob](http://docs.google.com/java/sql/Blob.html) pattern, long start)            Returns the position in this SerialBlob object where the given Blob object begins, starting the search at the specified position. |
| long | **SerialBlob.**[**position**](http://docs.google.com/javax/sql/rowset/serial/SerialBlob.html#position(byte%5B%5D,%20long))(byte[] pattern, long start)            Returns the position in this SerialBlob object where the given pattern of bytes begins, starting the search at the specified position. |
| long | **SerialClob.**[**position**](http://docs.google.com/javax/sql/rowset/serial/SerialClob.html#position(java.sql.Clob,%20long))([Clob](http://docs.google.com/java/sql/Clob.html) searchStr, long start)            Returns the position in this SerialClob object where the given Clob signature begins, starting the search at the specified position. |
| long | **SerialClob.**[**position**](http://docs.google.com/javax/sql/rowset/serial/SerialClob.html#position(java.lang.String,%20long))([String](http://docs.google.com/java/lang/String.html) searchStr, long start)            Returns the position in this SerialClob object where the given String object begins, starting the search at the specified position. |
| [Array](http://docs.google.com/java/sql/Array.html) | **SQLInputImpl.**[**readArray**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readArray())()            Reads an SQL ARRAY value from the stream and returns it as an Array object in the Java programming language. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **SQLInputImpl.**[**readAsciiStream**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readAsciiStream())()            Returns the next attribute in this SQLInputImpl object as a stream of ASCII characters. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **SQLInputImpl.**[**readBigDecimal**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readBigDecimal())()            Retrieves the next attribute in this SQLInputImpl object as a java.math.BigDecimal. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **SQLInputImpl.**[**readBinaryStream**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readBinaryStream())()            Returns the next attribute in this SQLInputImpl object as a stream of uninterpreted bytes. |
| [Blob](http://docs.google.com/java/sql/Blob.html) | **SQLInputImpl.**[**readBlob**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readBlob())()            Retrieves the BLOB value at the head of this SQLInputImpl object as a Blob object in the Java programming language. |
| boolean | **SQLInputImpl.**[**readBoolean**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readBoolean())()            Retrieves the next attribute in this SQLInputImpl object as a boolean in the Java programming language. |
| byte | **SQLInputImpl.**[**readByte**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readByte())()            Retrieves the next attribute in this SQLInputImpl object as a byte in the Java programming language. |
| byte[] | **SQLInputImpl.**[**readBytes**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readBytes())()            Retrieves the next attribute in this SQLInputImpl object as an array of bytes. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **SQLInputImpl.**[**readCharacterStream**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readCharacterStream())()            Retrieves the next attribute in this SQLInputImpl object as a stream of Unicode characters. |
| [Clob](http://docs.google.com/java/sql/Clob.html) | **SQLInputImpl.**[**readClob**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readClob())()            Retrieves the CLOB value at the head of this SQLInputImpl object as a Clob object in the Java programming language. |
| [Date](http://docs.google.com/java/sql/Date.html) | **SQLInputImpl.**[**readDate**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readDate())()            Retrieves the next attribute in this SQLInputImpl as a java.sql.Date object. |
| double | **SQLInputImpl.**[**readDouble**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readDouble())()            Retrieves the next attribute in this SQLInputImpl object as a double in the Java programming language. |
| float | **SQLInputImpl.**[**readFloat**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readFloat())()            Retrieves the next attribute in this SQLInputImpl object as a float in the Java programming language. |
| int | **SQLInputImpl.**[**readInt**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readInt())()            Retrieves the next attribute in this SQLInputImpl object as an int in the Java programming language. |
| long | **SQLInputImpl.**[**readLong**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readLong())()            Retrieves the next attribute in this SQLInputImpl object as a long in the Java programming language. |
| [NClob](http://docs.google.com/java/sql/NClob.html) | **SQLInputImpl.**[**readNClob**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readNClob())()            Reads an SQL NCLOB value from the stream and returns it as a Clob object in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **SQLInputImpl.**[**readNString**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readNString())()            Reads the next attribute in the stream and returns it as a String in the Java programming language. |
| [Object](http://docs.google.com/java/lang/Object.html) | **SQLInputImpl.**[**readObject**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readObject())()            Retrieves the value at the head of this SQLInputImpl object as an Object in the Java programming language. |
| [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. |
| [RowId](http://docs.google.com/java/sql/RowId.html) | **SQLInputImpl.**[**readRowId**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readRowId())()            Reads an SQL ROWID value from the stream and returns it as a RowId object in the Java programming language. |
| short | **SQLInputImpl.**[**readShort**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readShort())()            Retrieves the next attribute in this SQLInputImpl object as a short in the Java programming language. |
| [SQLXML](http://docs.google.com/java/sql/SQLXML.html) | **SQLInputImpl.**[**readSQLXML**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readSQLXML())()            Reads an SQL XML value from the stream and returns it as a SQLXML object in the Java programming language. |
| [String](http://docs.google.com/java/lang/String.html) | **SQLInputImpl.**[**readString**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readString())()            Retrieves the next attribute in this SQLInputImpl object as a String in the Java programming language. |
| [Time](http://docs.google.com/java/sql/Time.html) | **SQLInputImpl.**[**readTime**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readTime())()            Retrieves the next attribute in this SQLInputImpl object as a java.sql.Time object. |
| [Timestamp](http://docs.google.com/java/sql/Timestamp.html) | **SQLInputImpl.**[**readTimestamp**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readTimestamp())()            Retrieves the next attribute in this SQLInputImpl object as a java.sql.Timestamp object. |
| [URL](http://docs.google.com/java/net/URL.html) | **SQLInputImpl.**[**readURL**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readURL())()            Reads an SQL DATALINK value from the stream and returns it as an URL object in the Java programming language. |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **SerialClob.**[**setAsciiStream**](http://docs.google.com/javax/sql/rowset/serial/SerialClob.html#setAsciiStream(long))(long pos)            Retrieves a stream to be used to write Ascii characters to the CLOB value that this SerialClob object represents, starting at position pos. |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **SerialBlob.**[**setBinaryStream**](http://docs.google.com/javax/sql/rowset/serial/SerialBlob.html#setBinaryStream(long))(long pos)            Retrieves a stream that can be used to write to the BLOB value that this Blob object represents. |
| int | **SerialBlob.**[**setBytes**](http://docs.google.com/javax/sql/rowset/serial/SerialBlob.html#setBytes(long,%20byte%5B%5D))(long pos, byte[] bytes)            Writes the given array of bytes to the BLOB value that this Blob object represents, starting at position pos, and returns the number of bytes written. |
| int | **SerialBlob.**[**setBytes**](http://docs.google.com/javax/sql/rowset/serial/SerialBlob.html#setBytes(long,%20byte%5B%5D,%20int,%20int))(long pos, byte[] bytes, int offset, int length)            Writes all or part of the given byte array to the BLOB value that this Blob object represents and returns the number of bytes written. |
| [Writer](http://docs.google.com/java/io/Writer.html) | **SerialClob.**[**setCharacterStream**](http://docs.google.com/javax/sql/rowset/serial/SerialClob.html#setCharacterStream(long))(long pos)            Retrieves a stream to be used to write a stream of Unicode characters to the CLOB value that this SerialClob object represents, at position pos. |
| boolean | **SQLInputImpl.**[**wasNull**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#wasNull())()            Ascertains whether the last value read from this SQLInputImpl object was null. |
| void | **SQLOutputImpl.**[**writeArray**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeArray(java.sql.Array))([Array](http://docs.google.com/java/sql/Array.html) x)            Writes an Array object in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeAsciiStream**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeAsciiStream(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) x)            Writes a stream of ASCII characters to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeBigDecimal**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeBigDecimal(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Writes a java.math.BigDecimal object in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeBinaryStream**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeBinaryStream(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) x)            Writes a stream of uninterpreted bytes to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeBlob**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeBlob(java.sql.Blob))([Blob](http://docs.google.com/java/sql/Blob.html) x)            Writes a Blob object in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeBoolean**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeBoolean(boolean))(boolean x)            Writes a boolean in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeByte**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeByte(byte))(byte x)            Writes a byte in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeBytes**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeBytes(byte%5B%5D))(byte[] x)            Writes an array of bytes in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeCharacterStream**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeCharacterStream(java.io.Reader))([Reader](http://docs.google.com/java/io/Reader.html) x)            Writes a stream of Unicode characters to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeClob**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeClob(java.sql.Clob))([Clob](http://docs.google.com/java/sql/Clob.html) x)            Writes a Clob object in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeDate**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeDate(java.sql.Date))([Date](http://docs.google.com/java/sql/Date.html) x)            Writes a java.sql.Date object in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeDouble**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeDouble(double))(double x)            Writes a double in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeFloat**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeFloat(float))(float x)            Writes a float in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeInt**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeInt(int))(int x)            Writes an int in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeLong**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeLong(long))(long x)            Writes a long in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeNClob**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeNClob(java.sql.NClob))([NClob](http://docs.google.com/java/sql/NClob.html) x)            Writes an SQL NCLOB value to the stream. |
| void | **SQLOutputImpl.**[**writeNString**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.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 | **SQLOutputImpl.**[**writeObject**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.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 | **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. |
| void | **SQLOutputImpl.**[**writeRowId**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeRowId(java.sql.RowId))([RowId](http://docs.google.com/java/sql/RowId.html) x)            Writes an SQL ROWID value to the stream. |
| void | **SQLOutputImpl.**[**writeShort**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeShort(short))(short x)            Writes a short in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeSQLXML**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeSQLXML(java.sql.SQLXML))([SQLXML](http://docs.google.com/java/sql/SQLXML.html) x)            Writes an SQL XML value to the stream. |
| void | **SQLOutputImpl.**[**writeString**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeString(java.lang.String))([String](http://docs.google.com/java/lang/String.html) x)            Writes a String in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeStruct**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeStruct(java.sql.Struct))([Struct](http://docs.google.com/java/sql/Struct.html) x)            Writes a Struct object in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeTime**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeTime(java.sql.Time))([Time](http://docs.google.com/java/sql/Time.html) x)            Writes a java.sql.Time object in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeTimestamp**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeTimestamp(java.sql.Timestamp))([Timestamp](http://docs.google.com/java/sql/Timestamp.html) x)            Writes a java.sql.Timestamp object in the Java programming language to this SQLOutputImpl object. |
| void | **SQLOutputImpl.**[**writeURL**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeURL(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) url)            Writes an java.sql.Type.DATALINK 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) that throw [SQLException](http://docs.google.com/java/sql/SQLException.html) | |
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| [**SerialArray**](http://docs.google.com/javax/sql/rowset/serial/SerialArray.html#SerialArray(java.sql.Array))([Array](http://docs.google.com/java/sql/Array.html) array)            Constructs a new SerialArray object from the given Array object. |
| [**SerialArray**](http://docs.google.com/javax/sql/rowset/serial/SerialArray.html#SerialArray(java.sql.Array,%20java.util.Map))([Array](http://docs.google.com/java/sql/Array.html) array, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> map)            Constructs a new SerialArray object from the given Array object, using the given type map for the custom mapping of each element when the elements are SQL UDTs. |
| [**SerialBlob**](http://docs.google.com/javax/sql/rowset/serial/SerialBlob.html#SerialBlob(java.sql.Blob))([Blob](http://docs.google.com/java/sql/Blob.html) blob)            Constructs a SerialBlob object that is a serialized version of the given Blob object. |
| [**SerialBlob**](http://docs.google.com/javax/sql/rowset/serial/SerialBlob.html#SerialBlob(byte%5B%5D))(byte[] b)            Constructs a SerialBlob object that is a serialized version of the given byte array. |
| [**SerialClob**](http://docs.google.com/javax/sql/rowset/serial/SerialClob.html#SerialClob(char%5B%5D))(char[] ch)            Constructs a SerialClob object that is a serialized version of the given char array. |
| [**SerialClob**](http://docs.google.com/javax/sql/rowset/serial/SerialClob.html#SerialClob(java.sql.Clob))([Clob](http://docs.google.com/java/sql/Clob.html) clob)            Constructs a SerialClob object that is a serialized version of the given Clob object. |
| [**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. |
| [**SQLInputImpl**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#SQLInputImpl(java.lang.Object%5B%5D,%20java.util.Map))([Object](http://docs.google.com/java/lang/Object.html)[] attributes, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Class](http://docs.google.com/java/lang/Class.html)<?>> map)            Creates an SQLInputImpl object initialized with the given array of attributes and the given type map. |
| [**SQLOutputImpl**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#SQLOutputImpl(java.util.Vector,%20java.util.Map))([Vector](http://docs.google.com/java/util/Vector.html)<?> attributes, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> map)            Creates a new SQLOutputImpl object initialized with the given vector of attributes and type map. |

| Uses of [SQLException](http://docs.google.com/java/sql/SQLException.html) in [javax.sql.rowset.spi](http://docs.google.com/javax/sql/rowset/spi/package-summary.html) | |
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| Subclasses of [SQLException](http://docs.google.com/java/sql/SQLException.html) in [javax.sql.rowset.spi](http://docs.google.com/javax/sql/rowset/spi/package-summary.html) | |
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| class | [**SyncFactoryException**](http://docs.google.com/javax/sql/rowset/spi/SyncFactoryException.html)            Indicates an error with SyncFactory mechanism. |
| class | [**SyncProviderException**](http://docs.google.com/javax/sql/rowset/spi/SyncProviderException.html)            Indicates an error with the SyncProvider mechanism. |

| Methods in [javax.sql.rowset.spi](http://docs.google.com/javax/sql/rowset/spi/package-summary.html) that throw [SQLException](http://docs.google.com/java/sql/SQLException.html) | |
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| void | **TransactionalWriter.**[**commit**](http://docs.google.com/javax/sql/rowset/spi/TransactionalWriter.html#commit())()            Makes permanent all changes that have been performed by the acceptChanges method since the last call to either the commit or rollback methods. |
| [Object](http://docs.google.com/java/lang/Object.html) | **SyncResolver.**[**getConflictValue**](http://docs.google.com/javax/sql/rowset/spi/SyncResolver.html#getConflictValue(int))(int index)            Retrieves the value in the designated column in the current row of this SyncResolver object, which is the value in the data source that caused a conflict. |
| [Object](http://docs.google.com/java/lang/Object.html) | **SyncResolver.**[**getConflictValue**](http://docs.google.com/javax/sql/rowset/spi/SyncResolver.html#getConflictValue(java.lang.String))([String](http://docs.google.com/java/lang/String.html) columnName)            Retrieves the value in the designated column in the current row of this SyncResolver object, which is the value in the data source that caused a conflict. |
| boolean | **SyncResolver.**[**nextConflict**](http://docs.google.com/javax/sql/rowset/spi/SyncResolver.html#nextConflict())()            Moves the cursor down from its current position to the next row that contains a conflict value. |
| boolean | **SyncResolver.**[**previousConflict**](http://docs.google.com/javax/sql/rowset/spi/SyncResolver.html#previousConflict())()            Moves the cursor up from its current position to the previous conflict row in this SyncResolver object. |
| void | **XmlReader.**[**readXML**](http://docs.google.com/javax/sql/rowset/spi/XmlReader.html#readXML(javax.sql.rowset.WebRowSet,%20java.io.Reader))([WebRowSet](http://docs.google.com/javax/sql/rowset/WebRowSet.html) caller, [Reader](http://docs.google.com/java/io/Reader.html) reader)            Reads and parses the given WebRowSet object from the given input stream in XML format. |
| void | **TransactionalWriter.**[**rollback**](http://docs.google.com/javax/sql/rowset/spi/TransactionalWriter.html#rollback())()            Undoes all changes made in the current transaction. |
| void | **TransactionalWriter.**[**rollback**](http://docs.google.com/javax/sql/rowset/spi/TransactionalWriter.html#rollback(java.sql.Savepoint))([Savepoint](http://docs.google.com/java/sql/Savepoint.html) s)            Undoes all changes made in the current transaction made prior to the given Savepoint object. |
| void | **SyncResolver.**[**setResolvedValue**](http://docs.google.com/javax/sql/rowset/spi/SyncResolver.html#setResolvedValue(int,%20java.lang.Object))(int index, [Object](http://docs.google.com/java/lang/Object.html) obj)            Sets *obj* as the value in column *index* in the current row of the RowSet object that is being synchronized. |
| void | **SyncResolver.**[**setResolvedValue**](http://docs.google.com/javax/sql/rowset/spi/SyncResolver.html#setResolvedValue(java.lang.String,%20java.lang.Object))([String](http://docs.google.com/java/lang/String.html) columnName, [Object](http://docs.google.com/java/lang/Object.html) obj)            Sets *obj* as the value in column *columnName* in the current row of the RowSet object that is being synchronized. |
| void | **XmlWriter.**[**writeXML**](http://docs.google.com/javax/sql/rowset/spi/XmlWriter.html#writeXML(javax.sql.rowset.WebRowSet,%20java.io.Writer))([WebRowSet](http://docs.google.com/javax/sql/rowset/WebRowSet.html) caller, [Writer](http://docs.google.com/java/io/Writer.html) writer)            Writes the given WebRowSet object to the specified java.io.Writer output stream as an XML document. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/sql/SQLException.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-useSQLException.html)    [**NO FRAMES**](http://docs.google.com/SQLException.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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