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CursorWrapper DatabaseUtils

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والمناب والمستطينية والمائية والمستوا

Use Tree Navigation

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public class

Summary: Nested Classes | Constants | Ctors | Methods | Inherited Methods | [Expand All]

Added in API level 1

java.lang.Object

extends Object

android.database.DatabaseUtils

Class Overview

Static utility methods for dealing with databases and Cursors.

Summary

Nested	Nested Classes		
class	DatabaseUtils.InsertHelper	This class was deprecated in API level 17. Use SQLiteStatement instead.	

Constants		
int	STATEMENT_ABORT	One of the values returned by getSqlStatementType (String).
int	STATEMENT_ATTACH	One of the values returned by getSqlStatementType (String).
int	STATEMENT_BEGIN	One of the values returned by getSqlStatementType (String).
int	STATEMENT_COMMIT	One of the values returned by getSqlStatementType (String).
int	STATEMENT_DDL	One of the values returned by getSqlStatementType (String).
int	STATEMENT_OTHER	One of the values returned by getSqlStatementType (String).
int	STATEMENT_PRAGMA	One of the values returned by getSqlStatementType (String).

int	STATEMENT_SELECT	One of the values returned by getSqlStatementType (String).
int	STATEMENT_UNPREPARED	One of the values returned by getSqlStatementType (String).
int	STATEMENT_UPDATE	One of the values returned by getSqlStatementType (String).

DatabaseUtils ()

Public Methods	
static void	appendEscapedSQLString (StringBuilder sb, String sqlString) Appends an SQL string to the given StringBuilder, including the opening and closing single quotes.
static String[]	appendSelectionArgs (String[] originalValues, String[] newValues) Appends one set of selection args to another.
final static void	appendValueToSql (StringBuilder sql, Object value) Appends an Object to an SQL string with the proper escaping, etc.
static void	bindObjectToProgram (SQLiteProgram prog, int index, Object value) Binds the given Object to the given SQLiteProgram using the proper typing.
static ParcelFileDescriptor	blobFileDescriptorForQuery (SQLiteStatement prog, String[] selectionArgs) Utility method to run the pre-compiled query and return the blob value in the first column of the first row.
static ParcelFileDescriptor	blobFileDescriptorForQuery (SQLiteDatabase db, String query, String[] selectionArgs) Utility method to run the query on the db and return the blob value in the first column of the first row.
static String	concatenateWhere (String a, String b) Concatenates two SQL WHERE clauses, handling empty or null values.
static void	createDbFromSqlStatements (Context context, String dbName, int dbVersion, String sqlStatements Creates a db and populates it with the sql statements in sqlStatements.
static void	cursorDoubleToContentValues (Cursor cursor, String field, ContentValues values, String key) Reads a Double out of a field in a Cursor and writes it to a Map.
static void	cursorDoubleToContentValuesIfPresent (Cursor cursor, ContentValues values, String column)

	Reads a Double out of a column in a Cursor and writes it to a ContentValues.
static void	cursorDoubleToCursorValues (Cursor cursor, String field, ContentValues values) Reads a Double out of a field in a Cursor and writes it to a Map.
static void	cursorFloatToContentValuesIfPresent (Cursor cursor, ContentValues values, String column) Reads a Float out of a column in a Cursor and writes it to a ContentValues.
static void	cursorIntToContentValues (Cursor cursor, String field, ContentValues values, String key) Reads a Integer out of a field in a Cursor and writes it to a Map.
static void	cursorIntToContentValues (Cursor cursor, String field, ContentValues values) Reads an Integer out of a field in a Cursor and writes it to a Map.
static void	cursorIntToContentValuesIfPresent (Cursor cursor, ContentValues values, String column) Reads a Integer out of a column in a Cursor and writes it to a ContentValues.
static void	cursorLongToContentValues (Cursor cursor, String field, ContentValues values, String key) Reads a Long out of a field in a Cursor and writes it to a Map.
static void	cursorLongToContentValues (Cursor cursor, String field, ContentValues values) Reads a Long out of a field in a Cursor and writes it to a Map.
static void	cursorLongToContentValuesIfPresent (Cursor cursor, ContentValues values, String column) Reads a Long out of a column in a Cursor and writes it to a ContentValues.
static void	cursorRowToContentValues (Cursor cursor, ContentValues values) Read the entire contents of a cursor row and store them in a ContentValues.
static void	cursorShortToContentValuesIfPresent (Cursor cursor, ContentValues values, String column) Reads a Short out of a column in a Cursor and writes it to a ContentValues.
static void	cursorStringToContentValues (Cursor cursor, String field, ContentValues values, String key) Reads a String out of a field in a Cursor and writes it to a Map.
static void	cursorStringToContentValues (Cursor cursor, String field, ContentValues values) Reads a String out of a field in a Cursor and writes it to a Map.
static void	cursorStringToContentValuesIfPresent (Cursor cursor, ContentValues values, String column) Reads a String out of a column in a Cursor and writes it to a ContentValues.
static void	cursorStringToInsertHelper (Cursor cursor, String field, DatabaseUtils.InsertHelper inserter, int index) Reads a String out of a field in a Cursor and writes it to an InsertHelper.
static void	dumpCurrentRow (Cursor cursor, PrintStream stream)

	Prints the contents of a Cursor's current row to a PrintSteam.
static void	dumpCurrentRow (Cursor cursor, StringBuilder sb) Prints the contents of a Cursor's current row to a StringBuilder.
static void	dumpCurrentRow (Cursor cursor) Prints the contents of a Cursor's current row to System.out.
static String	dumpCurrentRowToString (Cursor cursor) Dump the contents of a Cursor's current row to a String.
static void	dumpCursor (Cursor cursor, PrintStream stream) Prints the contents of a Cursor to a PrintSteam.
static void	dumpCursor (Cursor cursor, StringBuilder sb) Prints the contents of a Cursor to a StringBuilder.
static void	dumpCursor (Cursor cursor) Prints the contents of a Cursor to System.out.
static String	dumpCursorToString (Cursor cursor) Prints the contents of a Cursor to a String.
static String	getCollationKey (String name) return the collation key
static String	getHexCollationKey (String name) return the collation key in hex format
staticint	getSqlStatementType (String sql) Returns one of the following which represent the type of the given SQL statement.
static long	longForQuery (SQLiteDatabase db, String query, String[] selectionArgs) Utility method to run the query on the db and return the value in the first column of the first row.
static long	longForQuery (SQLiteStatement prog, String[] selectionArgs) Utility method to run the pre-compiled query and return the value in the first column of the first row.
static long	queryNumEntries (SQLiteDatabase db, String table) Query the table for the number of rows in the table.
static long	queryNumEntries (SQLiteDatabase db, String table, String selection) Query the table for the number of rows in the table.

static long	queryNumEntries (SQLiteDatabase db, String table, String selection, String[] selectionArgs) Query the table for the number of rows in the table.
final static void	readExceptionFromParcel (Parcel reply) Special function for reading an exception result from the header of a parcel, to be used after receiving the result of a transaction.
static void	readExceptionWithFileNotFoundExceptionFromParcel (Parcel reply)
static void	readExceptionWithOperationApplicationExceptionFromParcel (Parcel reply)
static String	sqlEscapeString (String value) SQL-escape a string.
static String	stringForQuery (SQLiteDatabase db, String query, String[] selectionArgs) Utility method to run the query on the db and return the value in the first column of the first row.
static String	stringForQuery (SQLiteStatement prog, String[] selectionArgs) Utility method to run the pre-compiled query and return the value in the first column of the first row.
final static void	writeExceptionToParcel (Parcel reply, Exception e) Special function for writing an exception result at the header of a parcel, to be used when returning an exception from a transaction.

Inherited Methods [Expand] ▶ From class java.lang.Object

Constants

public static final int STATEMENT_ABORT

Added in API level 11

One of the values returned by getSqlStatementType (String).

Constant Value: 6 (0x00000006)

public static final int STATEMENT_ATTACH

Added in API level 11

One of the values returned by getSqlStatementType (String).

Constant Value: 3 (0x00000003) public static final int STATEMENT_BEGIN Added in API level 11 One of the values returned by getSqlStatementType (String). Constant Value: 4 (0x00000004) public static final int STATEMENT_COMMIT Added in API level 11 One of the values returned by getSqlStatementType (String). Constant Value: 5 (0x00000005) public static final int STATEMENT_DDL Added in API level 11 One of the values returned by getSqlStatementType (String). Constant Value: 8 (0x00000008) public static final int STATEMENT_OTHER Added in API level 11 One of the values returned by getSqlStatementType (String). Constant Value: 99 (0x00000063) public static final int STATEMENT_PRAGMA Added in API level 11 One of the values returned by getSqlStatementType (String). Constant Value: 7 (0x00000007) public static final int STATEMENT_SELECT Added in API level 11 One of the values returned by getSqlStatementType (String). Constant Value: 1 (0x00000001) public static final int STATEMENT_UNPREPARED Added in API level 11

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One of the values returned by getSqlStatementType (String).

Constant Value: 9 (0x00000009)

public static final int STATEMENT_UPDATE

Added in API level 11

One of the values returned by getSqlStatementType (String).

Constant Value: 2 (0x00000002)

Public Constructors

public DatabaseUtils ()

Added in API level 1

Public Methods

public static void appendEscapedSQLString (StringBuilder sb, String sqlString)

Added in API level 1

Appends an SQL string to the given StringBuilder, including the opening and closing single quotes. Any single quotes internal to sqlString will be escaped. This method is deprecated because we want to encourage everyone to use the "?" binding form. However, when implementing a ContentProvider, one may want to add WHERE clauses that were not provided by the caller. Since "?" is a positional form, using it in this case could break the caller because the indexes would be shifted to accomodate the ContentProvider's internal bindings. In that case, it may be necessary to construct a WHERE clause manually. This method is useful for those cases.

Parameters

sb the StringBuilder that the SQL string will be appended to

sqlString the raw string to be appended, which may contain single quotes

public static String[] appendSelectionArgs (String[] originalValues, String[] newValues)

Added in API level 11

Appends one set of selection args to another. This is useful when adding a selection argument to a user provided set.

public static final void appendValueToSql (StringBuilder sql, Object value)

Added in API level 1

Appends an Object to an SQL string with the proper escaping, etc.

public static void bindObjectToProgram (SQLiteProgram prog, int index, Object value)

Added in API level 1

Binds the given Object to the given SQLiteProgram using the proper typing. For example, bind numbers as longs/doubles, and everything else as a string by call toString() on it.

Parameters

prog the program to bind the object to

index the 1-based index to bind at

value the value to bind

public static ParcelFileDescriptor blobFileDescriptorForQuery (SQLiteStatement prog, String[] selectionArgs) Added in API level 11

Utility method to run the pre-compiled query and return the blob value in the first column of the first row.

Returns

A read-only file descriptor for a copy of the blob value.

public static ParcelFileDescriptor **blobFileDescriptorForQuery** (SQLiteDatabase db, String query, String[] selectionArgs)

Added in API level 11

Utility method to run the query on the db and return the blob value in the first column of the first row.

Returns

A read-only file descriptor for a copy of the blob value.

public static String concatenateWhere (String a, String b)

Added in API level 11

Concatenates two SQL WHERE clauses, handling empty or null values.

public static void **createDbFromSqlStatements** (Context context, String dbName, int dbVersion, String sqlStatements)

Added in API level 1

Creates a db and populates it with the sql statements in sqlStatements.

Parameters

context the context to use to create the db

dbName the name of the db to create

dbVersion the version to set on the db

sqlStatements the statements to use to populate the db. This should be a single string of the form returned by

sqlite3's . dump command (statements separated by semicolons)

public static void **cursorDoubleToContentValues** (Cursor cursor, String field, ContentValues values, String key)

Added in API level 1

Reads a Double out of a field in a Cursor and writes it to a Map.

Parameters

cursor The cursor to read fromfield The REAL field to read

values The ContentValues to put the value intokey The key to store the value with in the map

public static void cursorDoubleToContentValuesIfPresent (Cursor cursor, ContentValues values, String column)

Added in API level 8

Reads a Double out of a column in a Cursor and writes it to a ContentValues. Adds nothing to the ContentValues if the column isn't present or if its value is null.

Parameters

cursor The cursor to read from

values The ContentValues to put the value into

column The column to read

public static void **cursorDoubleToCursorValues** (Cursor cursor, String field, ContentValues values)

Added in API level 1

Reads a Double out of a field in a Cursor and writes it to a Map.

Parameters

cursor The cursor to read fromfield The REAL field to read

values The ContentValues to put the value into

public static void cursorFloatToContentValuesIfPresent (Cursor cursor, ContentValues values,
String column)

Added in API level 8

Reads a Float out of a column in a Cursor and writes it to a ContentValues. Adds nothing to the ContentValues if the column isn't present or if its value is null.

Parameters

cursor The cursor to read from

values The ContentValues to put the value into

column The column to read

public static void **cursorIntToContentValues** (Cursor cursor, String field, ContentValues values,

String key)

Added in API level 1

Reads a Integer out of a field in a Cursor and writes it to a Map.

Parameters

cursor The cursor to read fromfield The INTEGER field to read

values The ContentValues to put the value into, with the field as the key

key The key to store the value with in the map

public static void cursorIntToContentValues (Cursor cursor, String field, ContentValues values) dded in API level 1

Reads an Integer out of a field in a Cursor and writes it to a Map.

Parameters

cursor The cursor to read fromfield The INTEGER field to read

values The ContentValues to put the value into, with the field as the key

public static void **cursorIntToContentValuesIfPresent** (Cursor cursor, ContentValues values,
String column)

Added in API level 8

Reads a Integer out of a column in a Cursor and writes it to a ContentValues. Adds nothing to the ContentValues if the column isn't present or if its value is null.

Parameters

cursor The cursor to read from

values The ContentValues to put the value into

column The column to read

public static void **cursorLongToContentValues** (Cursor cursor, String field, ContentValues values, String key)

Added in API level 1

Reads a Long out of a field in a Cursor and writes it to a Map.

Parameters

cursor The cursor to read fromfield The INTEGER field to read

values The ContentValues to put the value intokey The key to store the value with in the map

public static void **cursorLongToContentValues** (Cursor cursor, String field, ContentValues values)

Added in API level 1

Reads a Long out of a field in a Cursor and writes it to a Map.

Parameters

cursor The cursor to read fromfield The INTEGER field to read

values The ContentValues to put the value into, with the field as the key

public static void cursorLongToContentValuesIfPresent (Cursor cursor, ContentValues values,

String column)

Added in API level 8

Reads a Long out of a column in a Cursor and writes it to a ContentValues. Adds nothing to the ContentValues if the column isn't present or if its value is null.

Parameters

cursor The cursor to read from

values The ContentValues to put the value into

column The column to read

public static void cursorRowToContentValues (Cursor cursor, ContentValues values)

Added in API level 1

Read the entire contents of a cursor row and store them in a ContentValues.

Parameters

cursor the cursor to read from.

values the ContentValues to put the row into.

public static void **cursorShortToContentValuesIfPresent** (Cursor cursor, ContentValues values,
String column)

Added in API level 8

Reads a Short out of a column in a Cursor and writes it to a ContentValues. Adds nothing to the ContentValues if the column isn't present or if its value is null.

Parameters

cursor The cursor to read from

values The ContentValues to put the value into

column The column to read

public static void **cursorStringToContentValues** (Cursor cursor, String field, ContentValues values, String key)

Added in API level 1

Reads a String out of a field in a Cursor and writes it to a Map.

Parameters

cursor The cursor to read fromfield The TEXT field to read

values The ContentValues to put the value into, with the field as the key

key The key to store the value with in the map

public static void **cursorStringToContentValues** (Cursor cursor, String field, ContentValues values)

Added in API level 1

Reads a String out of a field in a Cursor and writes it to a Map.

Parameters

cursor The cursor to read from field The TEXT field to read

values The ContentValues to put the value into, with the field as the key

public static void cursorStringToContentValuesIfPresent (Cursor cursor, ContentValues values,
String column)

Added in API level 8

Reads a String out of a column in a Cursor and writes it to a ContentValues. Adds nothing to the ContentValues if the column isn't present or if its value is null.

Parameters

cursor The cursor to read from

values The ContentValues to put the value into

column The column to read

public static void **cursorStringToInsertHelper** (Cursor cursor, String field, DatabaseUtils.InsertHelper inserter, int index)

Added in API level 1

Reads a String out of a field in a Cursor and writes it to an InsertHelper.

Parameters

<ur>cursorfieldThe TEXT field to read

inserter The InsertHelper to bind into

index the index of the bind entry in the InsertHelper

public static void dumpCurrentRow (Cursor cursor, PrintStream stream)

Added in API level 1

Prints the contents of a Cursor's current row to a PrintSteam.

Parameters

<ur>cursorthe cursor to printstreamthe stream to print to

public static void dumpCurrentRow (Cursor cursor, StringBuilder sb)

Added in API level 1

Prints the contents of a Cursor's current row to a StringBuilder.

Parameters

cursor the cursor to print

sb the StringBuilder to print to

public static void dumpCurrentRow (Cursor cursor)

Added in API level 1

Prints the contents of a Cursor's current row to System.out.

Parameters

cursor the cursor to print from

public static String dumpCurrentRowToString (Cursor cursor)

Added in API level 1

Dump the contents of a Cursor's current row to a String.

Parameters

cursor the cursor to print

Returns

a String that contains the dumped cursor row

public static void dumpCursor (Cursor cursor, PrintStream stream)

Added in API level 1

Prints the contents of a Cursor to a PrintSteam. The position is restored after printing.

Parameters

<ur>cursorthe cursor to printstreamthe stream to print to

public static void dumpCursor (Cursor cursor, StringBuilder sb)

Added in API level 1

Prints the contents of a Cursor to a StringBuilder. The position is restored after printing.

Parameters

cursor the cursor to print

sb the StringBuilder to print to

public static void dumpCursor (Cursor cursor)

Added in API level 1

Prints the contents of a Cursor to System.out. The position is restored after printing.

Parameters

cursor the cursor to print

public static String dumpCursorToString (Cursor cursor)

Added in API level 1

Prints the contents of a Cursor to a String. The position is restored after printing.

Parameters

cursor the cursor to print

Returns

a String that contains the dumped cursor

public static String getCollationKey (String name)

Added in API level 1

return the collation key

Returns

the collation key

public static String getHexCollationKey (String name)

Added in API level 1

return the collation key in hex format

Returns

the collation key in hex format

public static int getSqlStatementType (String sql)

Added in API level 11

Returns one of the following which represent the type of the given SQL statement.

- 1. STATEMENT SELECT
- 2. STATEMENT UPDATE
- 3. STATEMENT ATTACH
- 4. STATEMENT BEGIN

- 5. STATEMENT COMMIT
- 6. STATEMENT ABORT
- 7. STATEMENT_OTHER

Parameters

sql the SQL statement whose type is returned by this method

Returns

one of the values listed above

public static long longForQuery (SQLiteDatabase db, String query, String[] selectionArgs)

Added in API level 1

Utility method to run the query on the db and return the value in the first column of the first row.

public static long longForQuery (SQLiteStatement prog, String[] selectionArgs)

Added in API level 1

Utility method to run the pre-compiled query and return the value in the first column of the first row.

public static long queryNumEntries (SQLiteDatabase db, String table)

Added in API level 1

Query the table for the number of rows in the table.

Parameters

db the database the table is intable the name of the table to query

Returns

the number of rows in the table

public static long queryNumEntries (SQLiteDatabase db, String table, String selection)

Added in API level 11

Query the table for the number of rows in the table.

Parameters

db the database the table is intable the name of the table to query

selection A filter declaring which rows to return, formatted as an SQL WHERE clause (excluding the WHERE

itself). Passing null will count all rows for the given table

Returns

the number of rows in the table filtered by the selection

public static long **queryNumEntries** (SQLiteDatabase db, String table, String selection, String[] selectionArgs)

Added in API level 11

Query the table for the number of rows in the table.

Parameters

db the database the table is intable the name of the table to query

selection A filter declaring which rows to return, formatted as an SQL WHERE clause (excluding the WHERE

itself). Passing null will count all rows for the given table

selectionArgs You may include?s in selection, which will be replaced by the values from selectionArgs, in order

that they appear in the selection. The values will be bound as Strings.

Returns

the number of rows in the table filtered by the selection

public static final void readExceptionFromParcel (Parcel reply)

Added in API level 1

Special function for reading an exception result from the header of a parcel, to be used after receiving the result of a transaction. This will throw the exception for you if it had been written to the Parcel, otherwise return and let you read the normal result data from the Parcel.

Parameters

reply Parcel to read from

See Also

writeNoException()

readException()

public static void readExceptionWithFileNotFoundExceptionFromParcel (Parcel reply)

Added in API level 1

Throws

FileNotFoundException

public static void readExceptionWithOperationApplicationExceptionFromParcel (Parcel reply)Added in API level 5

Throws

OperationApplicationException

public static String sqlEscapeString (String value)

Added in API level 1

SQL-escape a string.

public static String stringForQuery (SQLiteDatabase db, String query, String[] selectionArgs) Added in API level 1

Utility method to run the query on the db and return the value in the first column of the first row.

public static String stringForQuery (SQLiteStatement prog, String[] selectionArgs)

Added in API level 1

Utility method to run the pre-compiled query and return the value in the first column of the first row.

public static final void writeExceptionToParcel (Parcel reply, Exception e)

Added in API level 1

Special function for writing an exception result at the header of a parcel, to be used when returning an exception from a transaction. exception will be re-thrown by the function in another process

Parameters

reply Parcel to write to

e The Exception to be written.

See Also

writeNoException()

writeException(Exception)

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