

Package ‘RSQLite’

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Title 'SQLite' Interface for R

Description Embeds the 'SQLite' database engine in R and provides an interface compliant with the 'DBI' package. The source for the 'SQLite' engine (version 3.8.8.2) is included.

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BugReports <https://github.com/rstats-db/RSQLite/issues>

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datasetsDb	<i>A sample sqlite database</i>
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Description

This database is bundled with the package, and contains all data frames in the datasets package.

Usage

```
datasetsDb()
```

Examples

```
library(DBI)
db <- RSQLite::datasetsDb()
dbListTables(db)

dbReadTable(db, "CO2")
dbGetQuery(db, "SELECT * FROM CO2 WHERE conc < 100")

dbDisconnect(db)
```

 dbDataType,SQLiteDriver-method

Determine the SQL Data Type of an R object

Description

Given an object, return its SQL data type as a SQL database identifier.

Usage

```
## S4 method for signature 'SQLiteDriver'
dbDataType(dbObj, obj, ...)
```

```
## S4 method for signature 'SQLiteConnection'
dbDataType(dbObj, obj, ...)
```

Arguments

dbObj	a SQLiteConnection or SQLiteDriver object
obj	an R object whose SQL type we want to determine.
...	Needed for compatibility with generic. Otherwise ignored.

See Also

The corresponding generic function `DBI::dbDataType()`.

Examples

```
library(DBI)
dbDataType(RSQLite::SQLite(), 1)
dbDataType(RSQLite::SQLite(), 1L)
dbDataType(RSQLite::SQLite(), "1")
dbDataType(RSQLite::SQLite(), TRUE)
dbDataType(RSQLite::SQLite(), list(raw(1)))

sapply(datasets::quakes, dbDataType, dbObj = RSQLite::SQLite())
```

 dbExistsTable,SQLiteConnection,character-method

Tables in a database

Description

dbExistsTable() returns a logical that indicates if a table exists, dbListTables() lists all tables as a character vector.

Usage

```
## S4 method for signature 'SQLiteConnection,character'
dbExistsTable(conn, name, ...)

## S4 method for signature 'SQLiteConnection'
dbListTables(conn, ...)
```

Arguments

conn	An existing SQLiteConnection
name	String, name of table. Match is case insensitive.
...	Needed for compatibility with generics, otherwise ignored.

See Also

The corresponding generic functions [DBI::dbExistsTable\(\)](#) and [DBI::dbListTables\(\)](#).

Examples

```
library(DBI)
db <- RSQLite::datasetsDb()

dbExistsTable(db, "mtcars")
dbExistsTable(db, "nonexistingtable")
dbListTables(db)

dbDisconnect(db)
```

dbListFields,SQLiteConnection,character-method
List fields in a table

Description

Returns the fields of a given table as a character vector.

Usage

```
## S4 method for signature 'SQLiteConnection,character'
dbListFields(conn, name, ...)
```

Arguments

conn	An existing SQLiteConnection
name	a length 1 character vector giving the name of a table.
...	Needed for compatibility with generic. Otherwise ignored.

See Also

The corresponding generic function `DBI::dbListFields()`.

Examples

```
library(DBI)
db <- RSQLite::datasetsDb()
dbListFields(db, "iris")
dbDisconnect(db)
```

dbReadTable, SQLiteConnection, character-method
Read a database table

Description

Returns the contents of a database table given by name as a data frame.

Usage

```
## S4 method for signature 'SQLiteConnection,character'
dbReadTable(conn, name, ...,
  row.names = NA, check.names = TRUE, select.cols = "*")
```

Arguments

<code>conn</code>	a SQLiteConnection object, produced by <code>DBI::dbConnect()</code>
<code>name</code>	a character string specifying a table name. SQLite table names are <i>not</i> case sensitive, e.g., table names ABC and abc are considered equal.
<code>...</code>	Needed for compatibility with generic. Otherwise ignored.
<code>row.names</code>	Either TRUE, FALSE, NA or a string. If TRUE, always translate row names to a column called "row_names". If FALSE, never translate row names. If NA, translate rownames only if they're a character vector. A string is equivalent to TRUE, but allows you to override the default name. For backward compatibility, NULL is equivalent to FALSE.
<code>check.names</code>	If TRUE, the default, column names will be converted to valid R identifiers.
<code>select.cols</code>	A SQL expression (in the form of a character vector of length 1) giving the columns to select. E.g. "*" selects all columns, "x, y, z" selects three columns named as listed.

Details

Note that the data frame returned by `dbReadTable()` only has primitive data, e.g., it does not coerce character data to factors.

Value

A data frame.

See Also

The corresponding generic function [DBI::dbReadTable\(\)](#).

Examples

```
library(DBI)
db <- RSQLite::datasetsDb()
dbReadTable(db, "mtcars")
dbReadTable(db, "mtcars", row.names = FALSE)
dbReadTable(db, "mtcars", select.cols = "cyl, gear")
dbReadTable(db, "mtcars", select.cols = "row_names, cyl, gear")
dbDisconnect(db)
```

dbRemoveTable,SQLiteConnection,character-method
Remove a table from the database

Description

Executes the SQL DROP TABLE.

Usage

```
## S4 method for signature 'SQLiteConnection,character'
dbRemoveTable(conn, name, ...)
```

Arguments

conn	An existing SQLiteConnection
name	character vector of length 1 giving name of table to remove
...	Needed for compatibility with generic. Otherwise ignored.

See Also

The corresponding generic function [DBI::dbRemoveTable\(\)](#).

Examples

```
library(DBI)
con <- dbConnect(RSQLite::SQLite())
dbWriteTable(con, "test", data.frame(a = 1))
dbListTables(con)
dbRemoveTable(con, "test")
dbListTables(con)
dbDisconnect(con)
```

dbWriteTable,SQLiteConnection,character,data.frame-method
Write a local data frame or file to the database

Description

Functions for writing data frames or delimiter-separated files to database tables. `sqlData()` is mostly useful to backend implementers, but must be documented here.

Usage

```
## S4 method for signature 'SQLiteConnection,character,data.frame'
dbWriteTable(conn, name,
  value, ..., row.names = NA, overwrite = FALSE, append = FALSE,
  field.types = NULL, temporary = FALSE)

## S4 method for signature 'SQLiteConnection,character,character'
dbWriteTable(conn, name, value,
  ..., field.types = NULL, overwrite = FALSE, append = FALSE,
  header = TRUE, colClasses = NA, row.names = FALSE, nrows = 50,
  sep = ",", eol = "\n", skip = 0, temporary = FALSE)

## S4 method for signature 'SQLiteConnection'
sqlData(con, value, row.names = NA, ...)
```

Arguments

name	a character string specifying a table name. SQLite table names are <i>not</i> case sensitive, e.g., table names ABC and abc are considered equal.
value	a data.frame (or coercible to data.frame) object or a file name (character). In the first case, the data.frame is written to a temporary file and then imported to SQLite; when value is a character, it is interpreted as a file name and its contents imported to SQLite.
...	Needed for compatibility with generic. Otherwise ignored.
row.names	A logical specifying whether the row.names should be output to the output DBMS table; if TRUE, an extra field whose name will be whatever the R identifier "row.names" maps to the DBMS (see <code>DBI::make.db.names()</code>). If NA will add rows names if they are characters, otherwise will ignore.
overwrite	a logical specifying whether to overwrite an existing table or not. Its default is FALSE.
append	a logical specifying whether to append to an existing table in the DBMS. Its default is FALSE.
field.types	character vector of named SQL field types where the names are the names of new table's columns. If missing, types inferred with <code>DBI::dbDataType()</code> .

temporary	a logical specifying whether the new table should be temporary. Its default is FALSE.
header	is a logical indicating whether the first data line (but see skip) has a header or not. If missing, its value is determined following <code>read.table()</code> convention, namely, it is set to TRUE if and only if the first row has one fewer field than the number of columns.
colClasses	Character vector of R type names, used to override defaults when imputing classes from on-disk file.
nrows	Number of rows to read to determine types.
sep	The field separator, defaults to ' , '.
eol	The end-of-line delimiter, defaults to '\n'.
skip	number of lines to skip before reading the data. Defaults to 0.
con, conn	a <code>SQLiteConnection</code> object, produced by <code>DBI::dbConnect()</code>

Details

In a primary key column qualified with `AUTOINCREMENT`, missing values will be assigned the next largest positive integer, while nonmissing elements/cells retain their value. If the autoincrement column exists in the data frame passed to the value argument, the NA elements are overwritten. Similarly, if the key column is not present in the data frame, all elements are automatically assigned a value.

See Also

The corresponding generic functions `DBI::dbWriteTable()` and `DBI::sqlData()`.

Examples

```
con <- dbConnect(SQLite())
dbWriteTable(con, "mtcars", mtcars)
dbReadTable(con, "mtcars")

# A zero row data frame just creates a table definition.
dbWriteTable(con, "mtcars2", mtcars[0, ])
dbReadTable(con, "mtcars2")

dbDisconnect(con)
```

initExtension

Add useful extension functions

Description

These extension functions are written by Liam Healy and made available through the SQLite website (<http://www.sqlite.org/contrib>).

Usage

```
initExtension(db)
```

Arguments

db A [SQLiteConnection](#) object to load these extensions into.

Available extension functions

Math functions acos, acosh, asin, asinh, atan, atan2, atanh, atn2, ceil, cos, cosh, cot, coth, degrees, difference, exp, floor, log, log10, pi, power, radians, sign, sin, sinh, sqrt, square, tan, tanh

String functions charindex, leftstr, ltrim, padc, padl, padr, proper, replace, replicate, reverse, rightstr, rtrim, strfilter, trim

Aggregate functions stdev, variance, mode, median, lower_quartile, upper_quartile

Examples

```
library(DBI)
db <- RSQLite::datasetsDb()
RSQLite::initExtension(db)

dbGetQuery(db, "SELECT stdev(mpg) FROM mtcars")
sd(mtcars$mpg)
dbDisconnect(db)
```

rsqliteVersion	<i>RSQLite version</i>
----------------	------------------------

Description

RSQLite version

Usage

```
rsqliteVersion()
```

Value

A character vector containing header and library versions of RSQLite.

Examples

```
RSQLite::rsqliteVersion()
```

 SQLite

Connect to an SQLite database

Description

Together, `SQLite()` and `dbConnect()` allow you to connect to a SQLite database file. See [sqlite-query](#) for how to issue queries and receive results.

Usage

```
SQLite(...)

## S4 method for signature 'SQLiteDriver'
dbConnect(drv, dbname = "", ...,
  loadable.extensions = TRUE, cache_size = NULL, synchronous = "off",
  flags = SQLITE_RWC, vfs = NULL)

## S4 method for signature 'SQLiteConnection'
dbConnect(drv, ...)

## S4 method for signature 'SQLiteConnection'
dbDisconnect(conn, ...)
```

Arguments

<code>...</code>	In previous versions, <code>SQLite()</code> took arguments. These have now all been moved to <code>dbConnect()</code> , and any arguments here will be ignored with a warning.
<code>drv, conn</code>	An object generated by <code>SQLite()</code> , or an existing <code>SQLiteConnection</code> . If an connection, the connection will be cloned.
<code>dbname</code>	The path to the database file. SQLite keeps each database instance in one single file. The name of the database <i>is</i> the file name, thus database names should be legal file names in the running platform. There are two exceptions: <ul style="list-style-type: none"> <code>""</code> will create a temporary on-disk database. The file will be deleted when the connection is closed. <code>":memory:"</code> or <code>"file::memory:"</code> will create a temporary in-memory database.
<code>loadable.extensions</code>	When TRUE (default) SQLite3 loadable extensions are enabled. Setting this value to FALSE prevents extensions from being loaded.
<code>cache_size</code>	Advanced option. A positive integer to change the maximum number of disk pages that SQLite holds in memory (SQLite's default is 2000 pages). See http://www.sqlite.org/pragmas.html#pragma_cache_size for details.
<code>synchronous</code>	Advanced options. Possible values for <code>synchronous</code> are "off" (the default), "normal", or "full". Users have reported significant speed ups using <code>synchronous = "off"</code> , and the SQLite documentation itself implies considerable improved performance

at the very modest risk of database corruption in the unlikely case of the operating system (*not* the R application) crashing. See http://www.sqlite.org/prAGMA.html#prAGMA_synchronous for details.

flags	SQLITE_RWC: open the database in read/write mode and create the database file if it does not already exist; SQLITE_RW: open the database in read/write mode. Raise an error if the file does not already exist; SQLITE_RO: open the database in read only mode. Raise an error if the file does not already exist
vfs	Select the SQLite3 OS interface. See http://www.sqlite.org/vfs.html for details. Allowed values are "unix-posix", "unix-unix-afp", "unix-unix-flock", "unix-dotfile", and "unix-none".

Details

Connections are automatically cleaned-up after they're deleted and reclaimed by the GC. You can use `DBI::dbDisconnect()` to terminate the connection early, but it will not actually close until all open result sets have been closed (and you'll get a warning message to this effect).

See Also

The corresponding generic functions `DBI::dbConnect()` and `DBI::dbDisconnect()`.

Examples

```
library(DBI)
# Initialize a temporary in memory database and copy a data.frame into it
con <- dbConnect(RSQLite::SQLite(), ":memory:")
data(USArrests)
dbWriteTable(con, "USArrests", USArrests)
dbListTables(con)

# Fetch all query results into a data frame:
dbGetQuery(con, "SELECT * FROM USArrests")

# Or do it in batches
rs <- dbSendQuery(con, "SELECT * FROM USArrests")
d1 <- dbFetch(rs, n = 10)      # extract data in chunks of 10 rows
dbHasCompleted(rs)
d2 <- dbFetch(rs, n = -1)     # extract all remaining data
dbHasCompleted(rs)
dbClearResult(rs)

# clean up
dbDisconnect(con)
```

sqlite-meta

*Result information***Description**

For a result object, returns information about the SQL statement used, the available columns and number of already fetched rows for a query, the number of affected rows for a statement, and the completion status.

Usage

```
## S4 method for signature 'SQLiteResult'
dbColumnInfo(res, ...)
```

```
## S4 method for signature 'SQLiteResult'
dbGetRowsAffected(res, ...)
```

```
## S4 method for signature 'SQLiteResult'
dbGetRowCount(res, ...)
```

```
## S4 method for signature 'SQLiteResult'
dbHasCompleted(res, ...)
```

```
## S4 method for signature 'SQLiteResult'
dbGetStatement(res, ...)
```

Arguments

res	An object of class SQLiteResult
...	Ignored. Needed for compatibility with generic

See Also

The corresponding generic functions [DBI::dbColumnInfo\(\)](#), [DBI::dbGetRowsAffected\(\)](#), [DBI::dbGetRowCount\(\)](#), [DBI::dbHasCompleted\(\)](#), and [DBI::dbGetStatement\(\)](#).

Examples

```
library(DBI)
db <- RSQLite::datasetsDb()
rs <- dbSendQuery(db, "SELECT * FROM USArrests WHERE UrbanPop >= 80")
dbGetStatement(rs)
dbColumnInfo(rs)
dbHasCompleted(rs)
dbGetRowCount(rs)

dbFetch(rs, n = 2)
dbHasCompleted(rs)
```

```

dbGetRowCount(rs)

invisible(dbFetch(rs))
dbHasCompleted(rs)
dbGetRowCount(rs)
dbClearResult(rs)

dbDisconnect(db)

con <- dbConnect(RSQLite::SQLite(), ":memory:")
dbExecute(con, "CREATE TABLE test (a INTEGER)")
rs <- dbSendStatement(con, "INSERT INTO test VALUES (:a)", list(a = 1:3))
dbGetRowsAffected(rs)
dbClearResult(rs)
dbDisconnect(con)

```

 sqlite-query

Execute a SQL statement on a database connection

Description

To retrieve results a chunk at a time, use `dbSendQuery()`, `dbFetch()`, then `dbClearResult()`. Alternatively, if you want all the results (and they'll fit in memory) use `dbGetQuery()` which sends, fetches and clears for you. To run the same prepared query with multiple inputs, use `dbBind()`. For statements that do not return a table, use `dbSendStatement()` and `dbExecute()` instead of `dbSendQuery()` and `dbGetQuery()`. See `sqlite-meta` for how to extract other metadata from the result set.

Usage

```

## S4 method for signature 'SQLiteConnection,character'
dbSendQuery(conn, statement,
  params = NULL, ...)

## S4 method for signature 'SQLiteResult'
dbBind(res, params, ...)

## S4 method for signature 'SQLiteResult'
dbFetch(res, n = -1, ..., row.names = NA)

## S4 method for signature 'SQLiteResult'
dbClearResult(res, ...)

```

Arguments

<code>conn</code>	an <code>SQLiteConnection</code> object.
<code>statement</code>	a character vector of length one specifying the SQL statement that should be executed. Only a single SQL statement should be provided.

params	A named list of query parameters to be substituted into a parameterised query. The elements of the list can be vectors which all must be of the same length.
...	Unused. Needed for compatibility with generic.
res	an <code>SQLiteResult</code> object.
n	maximum number of records to retrieve per fetch. Use -1 to retrieve all pending records; 0 retrieves only the table definition.
row.names	Either TRUE, FALSE, NA or a string. If TRUE, always translate row names to a column called "row_names". If FALSE, never translate row names. If NA, translate rownames only if they're a character vector. A string is equivalent to TRUE, but allows you to override the default name. For backward compatibility, NULL is equivalent to FALSE.

See Also

The corresponding generic functions `DBI::dbSendQuery()`, `DBI::dbFetch()`, `DBI::dbClearResult()`, `DBI::dbGetQuery()`, `DBI::dbBind()`, `DBI::dbSendStatement()`, and `DBI::dbExecute()`.

Examples

```
library(DBI)
db <- RSQLite::datasetsDb()

# Run query to get results as dataframe
dbGetQuery(db, "SELECT * FROM USArrests LIMIT 3")

# Send query to pull requests in batches
rs <- dbSendQuery(db, "SELECT * FROM USArrests")
dbFetch(rs, n = 2)
dbFetch(rs, n = 2)
dbHasCompleted(rs)
dbClearResult(rs)

# Parameterised queries are safest when you accept user input
dbGetQuery(db, "SELECT * FROM USArrests WHERE Murder < ?", list(3))

# Or create and then bind
rs <- dbSendQuery(db, "SELECT * FROM USArrests WHERE Murder < ?")
dbBind(rs, list(3))
dbFetch(rs)
dbClearResult(rs)

# Named parameters are a little more convenient
rs <- dbSendQuery(db, "SELECT * FROM USArrests WHERE Murder < :x")
dbBind(rs, list(x = 3))
dbFetch(rs)
dbClearResult(rs)
dbDisconnect(db)

# Passing multiple values is especially useful for statements
```

```

con <- dbConnect(RSQLite::SQLite())

dbWriteTable(con, "test", data.frame(a = 1L, b = 2L))
dbReadTable(con, "test")

dbExecute(con, "INSERT INTO test VALUES (:a, :b)",
           params = list(a = 2:4, b = 3:5))
dbReadTable(con, "test")

rs <- dbSendStatement(con, "DELETE FROM test WHERE a = :a AND b = :b")
dbBind(rs, list(a = 3:1, b = 2:4))
dbBind(rs, list(a = 4L, b = 5L))
dbClearResult(rs)
dbReadTable(con, "test")

# Multiple values passed to queries are executed one after another,
# the result appears as one data frame
dbGetQuery(con, "SELECT * FROM TEST WHERE a >= :a", list(a = 0:3))

dbDisconnect(con)

```

sqlite-transaction *SQLite transaction management*

Description

By default, SQLite is in auto-commit mode. `dbBegin()` starts a SQLite transaction and turns auto-commit off. `dbCommit()` and `dbRollback()` commit and rollback the transaction, respectively and turn auto-commit on. `DBI::dbWithTransaction()` is a convenient wrapper that makes sure that `dbCommit()` or `dbRollback()` is called.

Usage

```

## S4 method for signature 'SQLiteConnection'
dbBegin(conn, name = NULL, ...)

## S4 method for signature 'SQLiteConnection'
dbCommit(conn, name = NULL, ...)

## S4 method for signature 'SQLiteConnection'
dbRollback(conn, name = NULL, ...)

```

Arguments

<code>conn</code>	a <code>SQLiteConnection</code> object, produced by <code>DBI::dbConnect()</code>
<code>name</code>	Supply a name to use a named savepoint. This allows you to nest multiple transaction
<code>...</code>	Needed for compatibility with generic. Otherwise ignored.

See Also

The corresponding generic functions `DBI::dbBegin()`, `DBI::dbCommit()`, and `DBI::dbRollback()`.

Examples

```
library(DBI)
con <- dbConnect(SQLite(), ":memory:")
dbWriteTable(con, "arrests", datasets::USArrests)
dbGetQuery(con, "select count(*) from arrests")

dbBegin(con)
rs <- dbSendStatement(con, "DELETE from arrests WHERE Murder > 1")
dbGetRowsAffected(rs)
dbClearResult(rs)

dbGetQuery(con, "select count(*) from arrests")

dbRollback(con)
dbGetQuery(con, "select count(*) from arrests")[1, ]

dbBegin(con)
rs <- dbSendStatement(con, "DELETE FROM arrests WHERE Murder > 5")
dbClearResult(rs)
dbCommit(con)
dbGetQuery(con, "SELECT count(*) FROM arrests")[1, ]

# Named savepoints can be nested -----
dbBegin(con, "a")
dbBegin(con, "b")
dbRollback(con, "b")
dbCommit(con, "a")

dbDisconnect(con)
```

sqliteCopyDatabase *Copy a SQLite database*

Description

Copies a database connection to a file or to another database connection. It can be used to save an in-memory database (created using `dbname = ":memory:"` or `dbname = "file::memory:"`) to a file or to create an in-memory database a copy of another database.

Usage

```
sqliteCopyDatabase(from, to)
```


Arguments

from A SQLiteConnection object. The main database in from will be copied to to.
to A SQLiteConnection object pointing to an empty database.

Author(s)

Seth Falcon

References

<http://www.sqlite.org/backup.html>

Examples

```
library(DBI)
# Copy the built in databaseDb() to an in-memory database
con <- dbConnect(RSQLite::SQLite(), ":memory:")
dbListTables(con)

db <- RSQLite::datasetsDb()
RSQLite::sqliteCopyDatabase(db, con)
dbDisconnect(db)
dbListTables(con)

dbDisconnect(con)
```

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