

Package: RMariaDB (via r-universe)

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Title Database Interface and MariaDB Driver

Version 1.3.4.9017

Description Implements a DBI-compliant interface to MariaDB (<<https://mariadb.org/>>) and MySQL (<<https://www.mysql.com/>>) databases.

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URL <https://rmariadb.r-dbi.org>, <https://github.com/r-dbi/RMariaDB>,
<https://downloads.mariadb.org/connector-c/>

BugReports <https://github.com/r-dbi/RMariaDB/issues>

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Collate 'MariaDBConnection.R' 'MariaDBDriver.R' 'MariaDBResult.R' 'RMariaDB-package.R' 'coerce.R' 'compatRowNames.R' 'connect.R' 'cpp11.R' 'dbAppendTable_MariaDBConnection.R'

'dbBegin_MariaDBConnection.R' 'dbBind_MariaDBResult.R'
 'dbClearResult_MariaDBResult.R' 'dbColumnInfo_MariaDBResult.R'
 'dbCommit_MariaDBConnection.R' 'dbConnect_MariaDBDriver.R'
 'dbDataType_MariaDBConnection.R' 'dbDataType_MariaDBDriver.R'
 'dbDisconnect_MariaDBConnection.R'
 'dbExistsTable_MariaDBConnection_character.R'
 'dbFetch_MariaDBResult.R' 'dbGetInfo_MariaDBConnection.R'
 'dbGetInfo_MariaDBDriver.R' 'dbGetRowCount_MariaDBResult.R'
 'dbGetRowsAffected_MariaDBResult.R'
 'dbGetStatement_MariaDBResult.R'
 'dbHasCompleted_MariaDBResult.R'
 'dbIsValid_MariaDBConnection.R' 'dbIsValid_MariaDBDriver.R'
 'dbIsValid_MariaDBResult.R'
 'dbListObjects_MariaDBConnection_ANY.R'
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 'dbQuoteLiteral_MariaDBConnection.R'
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 'dbUnloadDriver_MariaDBDriver.R'
 'dbUnquoteIdentifier_MariaDBConnection_SQL.R'
 'dbWriteTable_MariaDBConnection_character_character.R'
 'dbWriteTable_MariaDBConnection_character_data.frame.R'
 'default.R' 'export.R' 'query.R' 'quote-mysql.R' 'quote.R'
 'show_MariaDBConnection.R' 'sqlData_MariaDBConnection.R'
 'table.R' 'transaction.R' 'utils.R' 'zzz.R'

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<i>RMariaDB-package</i>	<i>RMariaDB: Database Interface and MariaDB Driver</i>
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Description

Implements a DBI-compliant interface to MariaDB (<https://mariadb.org/>) and MySQL (<https://www.mysql.com/>) databases.

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See Also

Useful links:

- <https://rmariadb.r-dbi.org>
- <https://github.com/r-dbi/RMariaDB>
- <https://downloads.mariadb.org/connector-c/>
- Report bugs at <https://github.com/r-dbi/RMariaDB/issues>

 Client-flags

Client flags

Description

Use for the `client.flag` argument to `dbConnect()`, multiple flags can be combined with `+` or `bitwOr()`. The flags are provided for completeness. To enforce SSL for the DB connection, add the flag `CLIENT_SSL`.

See Also

The `flags` argument at https://mariadb.com/kb/en/library/mysql_real_connect.

Examples

```
## Not run:
library(DBI)
library(RMariaDB)
con1 <- dbConnect(MariaDB(), client.flag = CLIENT_COMPRESS)
con2 <- dbConnect(
  MariaDB(),
  client.flag = bitwOr(CLIENT_COMPRESS, CLIENT_SSL)
)

## End(Not run)
```

 dbDataType

Determine the SQL Data Type of an S object

Description

This method is a straight-forward implementation of the corresponding generic function.

Usage

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

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

Arguments

<code>dbObj</code>	A MariaDBDriver or MariaDBConnection object.
<code>obj</code>	R/S-Plus object whose SQL type we want to determine.
<code>...</code>	any other parameters that individual methods may need.

Examples

```
dbDataType(RMariaDB::MariaDB(), "a")
dbDataType(RMariaDB::MariaDB(), 1:3)
dbDataType(RMariaDB::MariaDB(), 2.5)
```

MariaDB*Connect/disconnect to a MariaDB DBMS*

Description

These methods are straight-forward implementations of the corresponding generic functions.

Usage

```
MariaDB()

## S4 method for signature 'MariaDBDriver'
dbConnect(
  drv,
  dbname = NULL,
  username = NULL,
  password = NULL,
  host = NULL,
  unix.socket = NULL,
  port = 0,
  client.flag = 0,
  group = "rs-dbi",
  default.file = NULL,
  ssl.key = NULL,
  ssl.cert = NULL,
  ssl.ca = NULL,
  ssl.capath = NULL,
  ssl.cipher = NULL,
  ...,
  groups = NULL,
  load_data_local_infile = FALSE,
  bigint = c("integer64", "integer", "numeric", "character"),
  timeout = 10,
  timezone = "+00:00",
  timezone_out = NULL,
  reconnect = FALSE,
  mysql = NULL
)
```

Arguments

<code>drv</code>	an object of class MariaDBDriver or MariaDBConnection .
<code>dbname</code>	string with the database name or NULL. If not NULL, the connection sets the default database to this value.
<code>username, password</code>	Username and password. If username omitted, defaults to the current user. If password is omitted, only users without a password can log in.
<code>host</code>	string identifying the host machine running the MariaDB server or NULL. If NULL or the string "localhost", a connection to the local host is assumed.
<code>unix.socket</code>	(optional) string of the unix socket or named pipe.
<code>port</code>	(optional) integer of the TCP/IP default port.
<code>client.flag</code>	(optional) integer setting various MariaDB client flags, see Client-flags for details.
<code>group</code>	string identifying a section in the <code>default.file</code> to use for setting authentication parameters (see MariaDB()).
<code>default.file</code>	string of the filename with MariaDB client options, only relevant if groups is given. The default value depends on the operating system (see references), on Linux and OS X the files <code>~/.my.cnf</code> and <code>~/.mylogin.cnf</code> are used. Expanded with normalizePath() .
<code>ssl.key</code>	(optional) string of the filename of the SSL key file to use. Expanded with normalizePath() .
<code>ssl.cert</code>	(optional) string of the filename of the SSL certificate to use. Expanded with normalizePath() .
<code>ssl.ca</code>	(optional) string of the filename of an SSL certificate authority file to use. Expanded with normalizePath() .
<code>ssl.capath</code>	(optional) string of the path to a directory containing the trusted SSL CA certificates in PEM format. Expanded with normalizePath() .
<code>ssl.cipher</code>	(optional) string list of permitted ciphers to use for SSL encryption.
<code>...</code>	Unused, needed for compatibility with generic.
<code>groups</code>	deprecated, use <code>group</code> instead.
<code>load_data_local_infile</code>	Set to TRUE to use LOAD DATA LOCAL INFILE in dbWriteTable() and dbAppendTable() by default. This capability is disabled by default on the server side for recent versions of MySQL Server.
<code>bigint</code>	The R type that 64-bit integer types should be mapped to, default is <code>bit64::integer64</code> , which allows the full range of 64 bit integers.
<code>timeout</code>	Connection timeout, in seconds. Use <code>Inf</code> or a negative value for no timeout.
<code>timezone</code>	(optional) time zone for the connection, the default corresponds to UTC. Set this argument if your server or database is configured with a different time zone than UTC. Set to NULL to automatically determine the server time zone.
<code>timezone_out</code>	The time zone returned to R. The default is to use the value of the <code>timezone</code> argument, "+00:00" is converted to "UTC" If you want to display datetime values in the local timezone, set to Sys.timezone() or "". This setting does not change the time values returned, only their display.

reconnect	(experimental) Set to TRUE to use MYSQL_OPT_RECONNECT to enable automatic reconnection. This is experimental and could be dangerous if the connection is lost in the middle of a transaction.
mysql	Set to TRUE/FALSE to connect to a MySQL server or to a MariaDB server, respectively. The RMariaDB package supports both MariaDB and MySQL servers, but the SQL dialect and other details vary. The default is to assume MariaDB if the version is $\geq 10.0.0$, and MySQL otherwise.

Time zones

MySQL and MariaDB support named time zones, they must be installed on the server. See <https://dev.mysql.com/doc/mysql-g11n-excerpt/8.0/en/time-zone-support.html> for more details. Without installation, time zone support is restricted to UTC offset, which cannot take into account DST offsets.

Secure passwords

Avoid storing passwords hard-coded in the code, use e.g. the **keyring** package to store and retrieve passwords in a secure way.

The MySQL client library (but not MariaDB) supports a `.mylogin.cnf` file that can be passed in the `default.file` argument. This file can contain an obfuscated password, which is not a secure way to store passwords but may be acceptable if the user is aware of the restrictions. The availability of this feature depends on the client library used for compiling the **RMariaDB** package. Windows and macOS binaries on CRAN are compiled against the MariaDB Connector/C client library which do not support this feature.

References

Configuration files: <https://mariadb.com/kb/en/library/configuring-mariadb-with-mycnf/>

Examples

```
if (mariadbHasDefault()) {
  # connect to a database and load some data
  con <- dbConnect(RMariaDB::MariaDB(), dbname = "test")
  dbWriteTable(con, "USArrests", datasets::USArrests, temporary = TRUE)

  # query
  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)
  dbListTables(con)

  # clean up
  dbDisconnect(con)
}
## Not run:
```

```

# Connect to a MariaDB database running locally
con <- dbConnect(RMariaDB::MariaDB(), dbname = "mydb")
# Connect to a remote database with username and password
con <- dbConnect(RMariaDB::MariaDB(),
  host = "mydb.mycompany.com",
  user = "abc", password = "def"
)
# But instead of supplying the username and password in code, it's usually
# better to set up a group in your .my.cnf (usually located in your home
# directory). Then it's less likely you'll inadvertently share them.
con <- dbConnect(RMariaDB::MariaDB(), group = "test")

# To connect to a remote database and require the use of SSL
# (and an example of using environment variables for your sensitive info)
con <- dbConnect(RMariaDB::MariaDB(),
  dbname = Sys.getenv('DB_NAME'),
  host = Sys.getenv('DB_HOST'),
  user = Sys.getenv('DB_USER'),
  password = Sys.getenv('DB_PASSWORD'),
  client.flag = CLIENT_SSL
)

# Always cleanup by disconnecting the database
dbDisconnect(con)

## End(Not run)

# All examples use the rs-dbi group by default.
if (mariadbHasDefault()) {
  con <- dbConnect(RMariaDB::MariaDB(), dbname = "test")
  con
  dbDisconnect(con)
}

```

mariadb-tables

Read and write MariaDB tables.

Description

These methods read or write entire tables from a MariaDB database.

Usage

```

## S4 method for signature 'MariaDBConnection'
dbAppendTable(conn, name, value, ..., row.names = NULL)

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

```

```
## S4 method for signature 'MariaDBConnection'
dbListObjects(conn, prefix = NULL, ...)

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

## S4 method for signature 'MariaDBConnection,character'
dbReadTable(conn, name, ..., row.names = FALSE, check.names = TRUE)

## S4 method for signature 'MariaDBConnection,character'
dbRemoveTable(conn, name, ..., temporary = FALSE, fail_if_missing = TRUE)

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

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

Arguments

conn	a MariaDBConnection object, produced by <code>DBI::dbConnect()</code>
name	a character string specifying a table name.

value	A data frame.
...	Unused, needed for compatibility with generic.
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.
prefix	A fully qualified path in the database's namespace, or NULL. This argument will be processed with <code>dbUnquoteIdentifier()</code> . If given the method will return all objects accessible through this prefix.
check.names	If TRUE, the default, column names will be converted to valid R identifiers.
temporary	If TRUE, creates a temporary table that expires when the connection is closed. For <code>dbRemoveTable()</code> , only temporary tables are considered if this argument is set to TRUE.
fail_if_missing	If FALSE, <code>dbRemoveTable()</code> succeeds if the table doesn't exist.
field.types	Optional, overrides default choices of field types, derived from the classes of the columns in the data frame.
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. If appending, then the table (or temporary table) must exist, otherwise an error is reported. Its default is FALSE.
header	logical, does the input file have a header line? Default is the same heuristic used by <code>read.table()</code> , i.e., TRUE if the first line has one fewer column than the second line.
nrows	number of lines to rows to import using <code>read.table</code> from the input file to create the proper table definition. Default is 50.
sep	field separator character
eol	End-of-line separator
skip	number of lines to skip before reading data in the input file.
quote	the quote character used in the input file (defaults to <code>\</code> .)

Details

When using `load_data_local_infile = TRUE` in `dbConnect()`, pass `safe = FALSE` to `dbAppendTable()` to avoid transactions. Because `LOAD DATA INFILE` is used internally, this means that rows violating primary key constraints are now silently ignored.

Value

A `data.frame` in the case of `dbReadTable()`; otherwise a logical indicating whether the operation was successful.

Note

The data.frame returned by dbReadTable() only has primitive data, e.g., it does not coerce character data to factors. Temporary tables are ignored for dbExistsTable() and dbListTables() due to limitations of the underlying C API. For this reason, a prior existence check is performed only before creating a regular persistent table; an attempt to create a temporary table with an already existing name will fail with a message from the database driver.

Examples

```
if (mariadbHasDefault()) {
  con <- dbConnect(RMariaDB::MariaDB(), dbname = "test")

  # By default, row names are written in a column to row_names, and
  # automatically read back into the row.names()
  dbWriteTable(con, "mtcars", mtcars[1:5, ], temporary = TRUE)
  dbReadTable(con, "mtcars")
  dbReadTable(con, "mtcars", row.names = FALSE)
}
```

mariadbClientLibraryVersions

MariaDB Check for Compiled Versus Loaded Client Library Versions

Description

This function prints out the compiled and loaded client library versions.

Usage

```
mariadbClientLibraryVersions()
```

Value

A named integer vector of length two, the first element representing the compiled library version and the second element representing the loaded client library version.

Examples

```
mariadbClientLibraryVersions()
```

mariadbHasDefault	<i>Check if default database is available.</i>
-------------------	--

Description

RMariaDB examples and tests connect to a database defined by the `rs-dbi` group in `~/my.cnf`. This function checks if that database is available, and if not, displays an informative message. `mariadbDefault()` works similarly but throws a testthat skip condition on failure, making it suitable for use in tests.

Usage

```
mariadbHasDefault()
```

```
mariadbDefault()
```

Examples

```
if (mariadbHasDefault()) {
  db <- dbConnect(RMariaDB::MariaDB(), dbname = "test")
  dbListTables(db)
  dbDisconnect(db)
}
```

query	<i>Execute a SQL statement on a database connection.</i>
-------	--

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. For data manipulation queries (i.e. queries that do not return data, such as UPDATE, DELETE, etc.), `dbSendStatement()` serves as a counterpart to `dbSendQuery()`, while `dbExecute()` corresponds to `dbGetQuery()`.

Usage

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

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

## S4 method for signature 'MariaDBResult'
dbFetch(res, n = -1, ..., row.names = FALSE)
```

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

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

## S4 method for signature 'MariaDBConnection,character'
dbSendStatement(conn, statement, params = NULL, ..., immediate = FALSE)
```

Arguments

<code>res</code>	A MariaDBResult object.
<code>params</code>	A list of query parameters to be substituted into a parameterised query.
<code>...</code>	Unused. Needed for compatibility with generic.
<code>n</code>	Number of rows to retrieve. Use -1 to retrieve all rows.
<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>conn</code>	A MariaDBConnection 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.
<code>immediate</code>	If TRUE, uses the <code>mysql_real_query()</code> API instead of <code>mysql_stmt_init()</code> . This allows passing multiple statements (with CLIENT_MULTI_STATEMENTS) and turns off the ability to pass parameters.

Examples

```
if (mariadbHasDefault()) {
  con <- dbConnect(RMariaDB::MariaDB(), dbname = "test")
  dbWriteTable(con, "arrests", datasets::USArrests, temporary = TRUE)

  # Run query to get results as dataframe
  dbGetQuery(con, "SELECT * FROM arrests limit 3")

  # Send query to pull requests in batches
  res <- dbSendQuery(con, "SELECT * FROM arrests")
  data <- dbFetch(res, n = 2)
  data
  dbHasCompleted(res)

  dbClearResult(res)
  dbDisconnect(con)
}
```

result-meta

Database interface meta-data.

Description

See documentation of generics for more details.

Usage

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

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

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

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

Arguments

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

Examples

```
if (mariadbHasDefault()) {  
  con <- dbConnect(RMariaDB::MariaDB(), dbname = "test")  
  dbWriteTable(con, "t1", datasets::USArrests, temporary = TRUE)  
  
  rs <- dbSendQuery(con, "SELECT * FROM t1 WHERE UrbanPop >= 80")  
  rs  
  
  dbGetStatement(rs)  
  dbHasCompleted(rs)  
  dbColumnInfo(rs)  
  
  dbFetch(rs)  
  rs  
  
  dbClearResult(rs)  
  dbDisconnect(con)  
}
```

Description

Commits or roll backs the current transaction in an MariaDB connection. Note that in MariaDB DDL statements (e.g. CREATE TABLE) cannot be rolled back.

Usage

```
## S4 method for signature 'MariaDBConnection'  
dbBegin(conn, ...)
```

```
## S4 method for signature 'MariaDBConnection'  
dbCommit(conn, ...)
```

```
## S4 method for signature 'MariaDBConnection'  
dbRollback(conn, ...)
```

Arguments

conn a [MariaDBConnection](#) object, as produced by `DBI::dbConnect()`.
... Unused.

Examples

```
if (mariadbHasDefault()) {  
  con <- dbConnect(RMariaDB::MariaDB(), dbname = "test")  
  df <- data.frame(id = 1:5)  
  
  dbWriteTable(con, "df", df, temporary = TRUE)  
  dbBegin(con)  
  dbExecute(con, "UPDATE df SET id = id * 10")  
  dbGetQuery(con, "SELECT id FROM df")  
  dbRollback(con)  
  
  dbGetQuery(con, "SELECT id FROM df")  
  
  dbDisconnect(con)  
}
```

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