Package: RMariaDB (via r-universe)

October 28, 2026

Title Database Interface and MariaDB Driver

Version 1.3.5

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

Depends R (>= 2.8.0)

Imports bit64, blob, DBI (>= 1.1.3), hms (>= 0.5.0), lubridate, methods, rlang

Suggests DBItest (>= 1.7.2.9001), decor, readr, rprojroot, testthat (>= 3.0.0), withr

LinkingTo cpp11

Config/Needs/website r-dbi/dbitemplate

Config/autostyle/scope line_breaks

Config/autostyle/strict false

Config/testthat/edition 3

Encoding UTF-8

NeedsCompilation yes

RoxygenNote 7.3.3.9000

SystemRequirements libmariadb-client-lgpl-dev or libmariadb-dev or libmysqlclient-dev, with libssl-dev (deb), mariadb-connector-c-devel or mariadb-devel (rpm), mariadb-connector-c or mysql-connector-c (brew)

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'
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'dbListObjects_MariaDBConnection_ANY.R'
'dbListTables_MariaDBConnection.R'
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'default.R' 'export.R' 'query.R' 'quote-mysql.R' 'quote.R'
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Config/pak/sysreqs libmysqlclient-dev

Repository https://cran.r-universe.dev

Date/Publication 2026-02-06 06:40:54 UTC

RemoteUrl https://github.com/cran/RMariaDB

RemoteRef HEAD

RemoteSha 73a9af42a2279ce80d2d6956c856ad901d8f7361

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`RMariaDB-package` *RMariaDB: Database Interface and MariaDB Driver*

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 `DBI::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

`dbObj`	A MariaDBDriver or MariaDBConnection object.
`obj`	R/S-Plus object whose SQL type we want to determine.
`...`	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

drv	an object of class MariaDBDriver or MariaDBConnection.
dbname	string with the database name or NULL. If not NULL, the connection sets the default database to this value.
username, password	Username and password. If username omitted, defaults to the current user. If password is omitted, only users without a password can log in.
host	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.
unix.socket	(optional) string of the unix socket or named pipe.
port	(optional) integer of the TCP/IP default port.
client.flag	(optional) integer setting various MariaDB client flags, see Client-flags for details.
group	string identifying a section in the default.file to use for setting authentication parameters (see MariaDB()).
default.file	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 ~/.my.cnf and ~/.mylogin.cnf are used. Expanded with normalizePath().
ssl.key	(optional) string of the filename of the SSL key file to use. Expanded with normalizePath().
ssl.cert	(optional) string of the filename of the SSL certificate to use. Expanded with normalizePath().
ssl.ca	(optional) string of the filename of an SSL certificate authority file to use. Expanded with normalizePath().
ssl.capath	(optional) string of the path to a directory containing the trusted SSL CA certificates in PEM format. Expanded with normalizePath().
ssl.cipher	(optional) string list of permitted ciphers to use for SSL encryption.
...	Unused, needed for compatibility with generic.
groups	deprecated, use group instead.
load_data_local_infile	Set to TRUE to use LOAD DATA LOCAL INFILE in DBI::dbWriteTable() and DBI::dbAppendTable() by default. This capability is disabled by default on the server side for recent versions of MySQL Server.
bigint	The R type that 64-bit integer types should be mapped to, default is bit64::integer64, which allows the full range of 64 bit integers.
timeout	Connection timeout, in seconds. Use Inf or a negative value for no timeout.
timezone	(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.
timezone_out	The time zone returned to R. The default is to use the value of the timezone 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 >= 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 DBI::dbConnect()
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 dbUnquoteIdentifier(). 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 dbRemoveTable(), only temporary tables are considered if this argument is set to TRUE.
fail_if_missing	If FALSE, dbRemoveTable() 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 read.table(), i.e., TRUE if the first line has one fewer column that the second line.
nrows	number of lines to rows to import using read.table 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 \".)

Details

When using load_data_local_infile = TRUE in DBI::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 *Check if default database is available.*

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 *Execute a SQL statement on a database connection.*

Description

To retrieve results a chunk at a time, use `DBI::dbSendQuery()`, `DBI::dbFetch()`, then `DBI::dbClearResult()`. Alternatively, if you want all the results (and they'll fit in memory) use `DBI::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.), `DBI::dbSendStatement()` serves as a counterpart to `DBI::dbSendQuery()`, while `DBI::dbExecute()` corresponds to `DBI::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

res	A MariaDBResult object.
params	A list of query parameters to be substituted into a parameterised query.
...	Unused. Needed for compatibility with generic.
n	Number of rows to retrieve. Use -1 to retrieve all rows.
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.
conn	A MariaDBConnection object.
statement	A character vector of length one specifying the SQL statement that should be executed. Only a single SQL statement should be provided.
immediate	If TRUE, uses the mysql_real_query() API instead of mysql_stmt_init(). 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)
}
```

`transactions` *DBMS Transaction Management*

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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