# Package ‘RMySQL’

**October 18, 2022**

**Version** 0.10.24  
**Title** Database Interface and 'MySQL' Driver for R  
**Description** Legacy 'DBI' interface to 'MySQL' / 'MariaDB' based on old code ported from S-PLUS. A modern 'MySQL' client based on 'Rcpp' is available from the 'RMariaDB' package.

**Depends** R (>= 2.8.0), DBI (>= 0.4)  
**Imports** methods  
**License** GPL-2  
**URL** [https://downloads.mariadb.org/connector-c/](https://downloads.mariadb.org/connector-c/) (upstream)  
**BugReports** [https://github.com/r-dbi/rmysql/issues](https://github.com/r-dbi/rmysql/issues)  
**SystemRequirements** libmariadb-client-dev | libmariadb-client-lgpl-dev  
libmysqlclient-dev (deb), mariadb-devel (rpm), mariadb  
mysql-connector-c (brew), mysql56_dev (csw)  
**NeedsCompilation** yes  
**Collate** `mysql.R` 'driver.R' 'connection.R' 'data-type.R' 'default.R'  
'escaping.R' 'result.R' 'extension.R' 'is-valid.R' 'table.R'  
'transaction.R'  
**Suggests** testthat, curl  
**RoxygenNote** 7.0.2  
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**Repository** CRAN  
**Date/Publication** 2022-10-18 10:35:24 UTC
R topics documented:

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Description

Constants

MySQLPkgName (currently "RMySQL"), MySQLPkgVersion (the R package version), MySQLPkgRCS (the RCS revision), MySQLSQLKeywords (a lot!)

db-meta Database interface meta-data

Description

Database interface meta-data
Usage

## S4 method for signature 'MySQLConnection'
dbGetInfo(dbObj, what = "", ...)

## S4 method for signature 'MySQLConnection'
dbListResults(conn, ...)

## S4 method for signature 'MySQLConnection'
summary(object, verbose = FALSE, ...)

## S4 method for signature 'MySQLConnection'
dbGetException(conn, ...)

## S4 method for signature 'MySQLConnection'
show(object)

Arguments

what          optional
...           Other arguments for compatibility with generic.
conn, dbObj, object
    MySQLConnection object.
verbose       If TRUE, add extra info.

Examples

if (mysqlHasDefault()) {
  con <- dbConnect(RMySQL::MySQL(), dbname = "test")

  summary(con)
  dbGetInfo(con)
  dbListResults(con)
  dbListTables(con)
  dbDisconnect(con)
}

---

**dbApply**

*Apply R/S-Plus functions to remote groups of DBMS rows (experimental)*

Description

Applies R/S-Plus functions to groups of remote DBMS rows without bringing an entire result set all at once. The result set is expected to be sorted by the grouping field.
dbApply

Usage

dbApply(res, ...)

## S4 method for signature 'MySQLResult'

dbApply(
  res,
  INDEX,
  FUN = stop("must specify FUN"),
  begin = NULL,
  group.begin = NULL,
  new.record = NULL,
  end = NULL,
  batchSize = 100,
  maxBatch = 1e+06,
  ..., simplify = TRUE
)

Arguments

res a result set (see dbSendQuery).
...
any additional arguments to be passed to FUN.
INDEX a character or integer specifying the field name or field number that defines the various groups.
FUN a function to be invoked upon identifying the last row from every group. This function will be passed a data frame holding the records of the current group, a character string with the group label, plus any other arguments passed to dbApply as "...".
begin a function of no arguments to be invoked just prior to retrieve the first row from the result set.
group.begin a function of one argument (the group label) to be invoked upon identifying a row from a new group
new.record a function to be invoked as each individual record is fetched. The first argument to this function is a one-row data.frame holding the new record.
end a function of no arguments to be invoked just after retrieving the last row from the result set.
batchSize the default number of rows to bring from the remote result set. If needed, this is automatically extended to hold groups bigger than batchSize.
maxBatch the absolute maximum of rows per group that may be extracted from the result set.
simplify Not yet implemented

Details

This function is meant to handle somewhat gracefully(?) large amounts of data from the DBMS by bringing into R manageable chunks (about batchSize records at a time, but not more than
maxBatch): the idea is that the data from individual groups can be handled by R, but not all the groups at the same time.

**Value**

A list with as many elements as there were groups in the result set.

**Examples**

```r
if (mysqlHasDefault()) {
  con <- dbConnect(RMySQL::MySQL(), dbname = "test")

  dbWriteTable(con, "mtcars", mtcars, overwrite = TRUE)
  res <- dbSendQuery(con, "SELECT * FROM mtcars ORDER BY cyl")
  dbApply(res, "cyl", function(x, grp) quantile(x$mpg, names=FALSE))

  dbClearResult(res)
  dbRemoveTable(con, "mtcars")
  dbDisconnect(con)
}
```

---

**dbConnect,MySQLDriver-method**

*Connect/disconnect to a MySQL DBMS*

**Description**

These methods are straightforward implementations of the corresponding generic functions.

**Usage**

```r
## S4 method for signature 'MySQLDriver'
dbConnect(
  drv,
  dbname = NULL,
  username = NULL,
  password = NULL,
  host = NULL,
  unix.socket = NULL,
  port = 0,
  client.flag = 0,
  groups = "rs-dbi",
  default.file = NULL,
  ...
)

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

```
dbDisconnect(conn, ...)
```

### Arguments

- **drv**
  - an object of class `MySQLDriver`, or the character string "MySQL" or an `MySQLConnection`.

- **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 MySQL 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 MySQL client flags. See the MySQL manual for details.

- **groups**
  - string identifying a section in the `default.file` to use for setting authentication parameters (see MySQL).

- **default.file**
  - string of the filename with MySQL client options. Defaults to `\$HOME/.my.cnf`

- **conn**
  - an `MySQLConnection` object as produced by `dbConnect`.

### Examples

```
# Not run:
# Connect to a MySQL database running locally
con <- dbConnect(RMySQL::MySQL(), dbname = "mydb")

# Connect to a remote database with username and password
con <- dbConnect(RMySQL::MySQL(), 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(RMySQL::MySQL(), group = "test")

# Always cleanup by disconnecting the database
dbDisconnect(con)

# End(Not run)
```

All examples use the rds-bi group by default.
**dbDataType,MySQLDriver-method**

*Determine the SQL Data Type of an S object*

**Description**

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

**Usage**

```r
## S4 method for signature 'MySQLDriver'
dbDataType(dbObj, obj)

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

**Arguments**

- `dbObj`: A `MySQLDriver` or `MySQLConnection`.
- `obj`: R/S-Plus object whose SQL type we want to determine.

**Examples**

```r
dbDataType(RMySQL::MySQL(), "a")
dbDataType(RMySQL::MySQL(), 1:3)
dbDataType(RMySQL::MySQL(), 2.5)
```

---

**dbEscapeStrings**

*Escape SQL-special characters in strings.*

**Description**

Escape SQL-special characters in strings.

**Usage**

```r
dbEscapeStrings(con, strings, ...)

## S4 method for signature 'MySQLConnection,character'
dbEscapeStrings(con, strings)

## S4 method for signature 'MySQLResult,character'
dbEscapeStrings(con, strings, ...)
```
Arguments

- con: a connection object (see `dbConnect`).
- strings: a character vector.
- ...: any additional arguments to be passed to the dispatched method.

Value

A character vector with SQL special characters properly escaped.

Examples

```r
if (mysqlHasDefault()) {
  con <- dbConnect(RMySQL::MySQL(), dbname = "test")
  tmp <- sprintf("SELECT * FROM emp WHERE lname = %s", "O'Reilly")
  dbEscapeStrings(con, tmp)
  dbDisconnect(con)
}
```

---

**dbFetch,MySQLResult,numeric-method**

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.

Usage

```r
## S4 method for signature 'MySQLResult,numeric'
dbFetch(res, n = -1, ...)

## S4 method for signature 'MySQLResult,numeric'
fetch(res, n = -1, ...)

## S4 method for signature 'MySQLResult,missing'
dbFetch(res, n = -1, ...)

## S4 method for signature 'MySQLResult,missing'
fetch(res, n = -1, ...)

## S4 method for signature 'MySQLConnection,character'
dbSendQuery(conn, statement)
```
## S4 method for signature 'MySQLResult'
dbClearResult(res, ...)

## S4 method for signature 'MySQLResult'
dbGetInfo(dbObj, what = "", ...)

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

## S4 method for signature 'MySQLResult,missing'
dbListFields(conn, name, ...)

### Arguments

res, dbObj
A MySQLResult object.

n
maximum number of records to retrieve per fetch. Use -1 to retrieve all pending
records; use 0 for to fetch the default number of rows as defined in MySQL

... Unused. Needed for compatibility with generic.

conn
an MySQLConnection object.

statement
a character vector of length one specifying the SQL statement that should be
executed. Only a single SQL statement should be provided.

what
optional

name
Table name.

### Details

fetch() will be deprecated in the near future; please use dbFetch() instead.

### Examples

if (mysqlHasDefault()) {
  con <- dbConnect(RMySQL::MySQL(), dbname = "test")
dbWriteTable(con, "arrests", datasets::USArrests, overwrite = TRUE)

  # Run query to get results as dataframe
  dbQuery(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)

dbListResults(con)
dbClearResult(res)
dbRemoveTable(con, "arrests")
dbDisconnect(con)
}
Get information about a MySQL driver.

**Description**

Get information about a MySQL driver.

**Usage**

```r
## S4 method for signature 'MySQLDriver'
dbGetInfo(dbObj, what = "", ...)  
## S4 method for signature 'MySQLDriver'
dbListConnections(drv, ...)  
## S4 method for signature 'MySQLDriver'
summary(object, verbose = FALSE, ...)  
## S4 method for signature 'MySQLDriver'
show(object)
```

**Arguments**

- `dbObj`, `object`, `drv`
  - Object created by `MySQL`.
- `what`
  - Optional
- `...`
  - Ignored. Needed for compatibility with generic.
- `verbose`
  - If `TRUE`, print extra info.

**Examples**

```r
db <- RMySQL::MySQL()
db
dbGetInfo(db)
dbListConnections(db)
summary(db)
```
**Description**

SQL scripts (i.e., multiple SQL statements separated by ';') and stored procedures oftentimes generate multiple result sets. These generic functions provide a means to process them sequentially. `dbNextResult` fetches the next result from the sequence of pending result sets; `dbMoreResults` returns a logical to indicate whether there are additional results to process.

**Usage**

```r
dbNextResult(con, ...)
```

```
## S4 method for signature 'MySQLConnection'
dbNextResult(con, ...)
```

```r
dbMoreResults(con, ...)
```

```
## S4 method for signature 'MySQLConnection'
dbMoreResults(con, ...)
```

**Arguments**

- `con` a connection object (see `dbConnect`).
- `...` any additional arguments to be passed to the dispatched method

**Value**

`dbNextResult` returns a result set or NULL.

`dbMoreResults` returns a logical specifying whether or not there are additional result sets to process in the connection.

**Examples**

```r
if (mysqlHasDefault()) {
  con <- dbConnect(RMySQL::MySQL(), dbname = "test", client.flag = CLIENT_MULTI_STATEMENTS)
dbWriteTable(con, "mtcars", datasets::mtcars, overwrite = TRUE)

  sql <- "SELECT cyl FROM mtcars LIMIT 5; SELECT vs FROM mtcars LIMIT 5"
  rs1 <- dbSendQuery(con, sql)
dbFetch(rs1, n = -1)

  if (dbMoreResults(con)) {
    rs2 <- dbNextResult(con)
dbFetch(rs2, n = -1)
  }
}
```
dbClearResult(rs1)
dbClearResult(rs2)
dbRemoveTable(con, "mtcars")
dbDisconnect(con)
}

---

*dbReadTable, MySQLConnection, character-method*

*Convenience functions for importing/exporting DBMS tables*

**Description**

These functions mimic their R/S-Plus counterpart `get`, `assign`, `exists`, `remove`, and `objects`, except that they generate code that gets remotely executed in a database engine.

**Usage**

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

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

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

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

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

**Arguments**

- **conn**: a `MySQLConnection` object, produced by `dbConnect`
- **name**: a character string specifying a table name.
- **row.names**: A string or an index specifying the column in the DBMS table to use as `row.names` in the output data.frame. Defaults to using the `row_names` column if present. Set to `NULL` to never use row names.
- **check.names**: If `TRUE`, the default, column names will be converted to valid R identifiers.
- **...**: Unused, needed for compatibility with generic.

**Value**

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

Note that the data frame returned by \texttt{dbReadTable} only has primitive data, e.g., it does not coerce character data to factors.

Examples

```r
if (mysqlHasDefault()) {
  con <- dbConnect(RMySQL::MySQL(), 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, ], overwrite = TRUE)
  dbReadTable(con, "mtcars")
  dbReadTable(con, "mtcars", row.names = NULL)
}
```

unloadDriver,MySQLDriver-method

Unload MySQL driver.

Description

Unload MySQL driver.

Usage

```r
## S4 method for signature 'MySQLDriver'
unloadDriver(drv, ...)
```

Arguments

- `drv`: Object created by \texttt{MySQL}.
- `...`: Ignored. Needed for compatibility with generic.

Value

A logical indicating whether the operation succeeded or not.
dbWriteTable, MySQLConnection, character, data.frame-method

Write a local data frame or file to the database.

Description

Write a local data frame or file to the database.

Usage

## S4 method for signature 'MySQLConnection, character, data.frame'

```r
dbWriteTable(
  conn, 
  name, 
  value, 
  field.types = NULL, 
  row.names = TRUE, 
  overwrite = FALSE, 
  append = FALSE, 
  ..., 
  allow.keywords = FALSE
)
```

## S4 method for signature 'MySQLConnection, character, character'

```r
dbWriteTable(
  conn, 
  name, 
  value, 
  field.types = NULL, 
  overwrite = FALSE, 
  append = FALSE, 
  header = TRUE, 
  row.names = FALSE, 
  nrows = 50, 
  sep = "\", 
  eol = "\n", 
  skip = 0, 
  quote = "\"", 
  ...
)
```

Arguments

- **conn** a MySQLConnection object, produced by dbConnect
- **name** a character string specifying a table name.
Description

Support function that verifies that an object holding a reference to a foreign object is still valid for communicating with the RDBMS. isIdCurrent will be deprecated in the near future; please use the dbIsValid() generic instead.
Usage

isIdCurrent(obj)

## S4 method for signature 'MySQLDriver'
dbIsValid(dbObj)

## S4 method for signature 'MySQLConnection'
dbIsValid(dbObj)

## S4 method for signature 'MySQLResult'
dbIsValid(dbObj)

Arguments

dbObj, obj A MysqlDriver, MysqlConnection, MysqlResult.

Details

dbObjects are R/S-Plus remote references to foreign objects. This introduces differences to the object’s semantics such as persistence (e.g., connections may be closed unexpectedly), thus this function provides a minimal verification to ensure that the foreign object being referenced can be contacted.

Value

a logical scalar.

Examples

dbIsValid(MySQL())

make.db.names,MySQLConnection,character-method

Make R/S-Plus identifiers into legal SQL identifiers

Description

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

Usage

## S4 method for signature 'MySQLConnection,character'
make.db.names(
    dbObj,
    snames,
    keywords = .SQL92Keywords,
    unique = TRUE,
allow.keywords = TRUE,
... 
)

## S4 method for signature 'MySQLConnection'
SQLKeywords(dbObj, ...)

## S4 method for signature 'MySQLConnection,character'
isSQLKeyword(
    dbObj,
    name,
    keywords = .MySQLKeywords,
    case = c("lower", "upper", "any")[3],
    ...
)

Arguments

dbObj any MySQL object (e.g., MySQLDriver).
snames a character vector of R/S-Plus identifiers (symbols) from which we need to make SQL identifiers.
keywords a character vector with SQL keywords, by default it is .MySQLKeywords defined in RMySQL. This may be overriden by users.
unique logical describing whether the resulting set of SQL names should be unique. Its default is TRUE. Following the SQL 92 standard, uniqueness of SQL identifiers is determined regardless of whether letters are upper or lower case.
allow.keywords logical describing whether SQL keywords should be allowed in the resulting set of SQL names. Its default is TRUE
... Unused, needed for compatibility with generic.
name a character vector of SQL identifiers we want to check against keywords from the DBMS.
case a character string specifying whether to make the comparison as lower case, upper case, or any of the two. It defaults to any.

mysqlClientLibraryVersions

MySQL Check for Compiled Versus Loaded Client Library Versions

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

Usage
mysqlClientLibraryVersions()
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

mysqlClientLibraryVersions()

MySQLDriver-class

Class MySQLDriver with constructor MySQL.

Description

An MySQL driver implementing the R database (DBI) API. This class should always be initialized with the MySQL() function. It returns a singleton that allows you to connect to MySQL.

Usage

MySQL(max.con = 16, fetch.default.rec = 500)

Arguments

max.con maximum number of connections that can be open at one time. There’s no intrinsic limit, since strictly speaking this limit applies to MySQL servers, but clients can have (at least in theory) more than this. Typically there are at most a handful of open connections, thus the internal RMySQL code uses a very simple linear search algorithm to manage its connection table.

fetch.default.rec number of records to fetch at one time from the database. (The fetch method uses this number as a default.)

Examples

if (mysqlHasDefault()) {
  # connect to a database and load some data
  con <- dbConnect(RMySQL::MySQL(), dbname = "test")
  dbWriteTable(con, "USArrests", datasets::USArrests, overwrite = 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
}
mysqlHasDefault

Check if default database is available.

Description
RMySQL 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.

Usage
mysqlHasDefault()

Examples
if (mysqlHasDefault()) {
  db <- dbConnect(RMySQL::MySQL(), dbname = "test")
  dbListTables(db)
  dbDisconnect(db)
}

result-meta

Database interface meta-data.

Description
See documentation of generics for more details.

Usage
## S4 method for signature 'MySQLResult'
dbColumnInfo(res, ...)

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

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

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

## S4 method for signature 'MySQLResult'
transactions

DBMS Transaction Management

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

Usage
## S4 method for signature 'MySQLConnection'
dbCommit(conn, ...)

## S4 method for signature 'MySQLConnection'
dbBegin(conn, ...)
## S4 method for signature 'MySQLConnection'
dbRollback(conn, ...)

### Arguments

- **conn**: a MySQLConnection object, as produced by `dbConnect`.
- **...**: Unused.

### Examples

```r
if (mysqlHasDefault()){
  con <- dbConnect(RMySQL::MySQL(), dbname = "test")
  df <- data.frame(id = 1:5)

  dbWriteTable(con, "df", df)
  dbBegin(con)
  dbGetQuery(con, "UPDATE df SET id = id * 10")
  dbGetQuery(con, "SELECT id FROM df")
  dbRollback(con)

  dbGetQuery(con, "SELECT id FROM df")

  dbRemoveTable(con, "df")
  dbDisconnect(con)
}
```
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