Package ‘RMySQL’

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ported from S-PLUS. A modern 'MySQL' client based on 'Repp' is available
from the 'RMariaDB' package.
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constants  Constants

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
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**

```r
dbApply(res, ...)
```

### S4 method for signature 'MySQLResult'

```r
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
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 straight-forward 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, ...)
```
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`
- **...**: Unused, needed for compatibility with generic.
- **conn**: an `MySQLConnection` object as produced by `dbConnect`.

Examples

```r
## 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 rs-dbi group by default.
if (mysqlHasDefault()) {
  con <- dbConnect(RMySQL::MySQL(), dbname = "test")
  summary(con)
  dbDisconnect(con)
}
```
**dbDataType,MySQLDriver-method**

*Determine the SQL Data Type of an S object*

**Description**

This method is a straightforward implementation of the corresponding generic function.

**Usage**

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

```r
## 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, ...)
```

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

```r
## 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)
}
```

---

**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

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

  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)
```
**dbNextResult**

Fetch next result set from an SQL script or stored procedure (experimental)

**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'

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

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

## S4 method for signature 'MySQLConnection'

```r
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 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)
}
```

Unload MySQL driver.

Unload MySQL driver.

Usage

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

Arguments

- `drv` Object created by `MySQL`.
- `...` Ignored. Needed for compatibility with generic.

Value

A logical indicating whether the operation succeeded or not.
Write a local data frame or file to the database.

Usage

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

## S4 method for signature 'MySQLConnection,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 = "\"
)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>conn</td>
<td>a MySQLConnection object, produced by dbConnect</td>
</tr>
<tr>
<td>name</td>
<td>a character string specifying a table name.</td>
</tr>
</tbody>
</table>
isIdCurrent

value

field.types
row.names
overwrite
append
allow.keywords
header
nrows
sep
eol
skip
quote

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.

isIdCurrent

Check if a database object is valid.
Usage

```r
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

da logical scalar.

Examples

```r
dbIsValid(MySQL())
```

---

**make.db.names,MySQLConnection,character-method**

*Make R/S-Plus identifiers into legal SQL identifiers*

Description

These methods are straightforward implementations of the corresponding generic functions.

Usage

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

## 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 overridden 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

```r
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

```r
dbRemoveTable(con, "USArrests")
dbDisconnect(con)
```

**mysqlHasDefault**  
*Check if default database is available.*

**Description**

RMMySQL 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**

```r
mysqlHasDefault()
```

**Examples**

```r
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**

```r
## 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'
```
### 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

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

```r
## 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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