Package ‘pool’

October 3, 2019

Type Package
Title Object Pooling
Version 0.1.4.3
Description Enables the creation of object pools, which make it less computationally expensive to fetch a new object. Currently the only supported pooled objects are 'DBI' connections.
License GPL-3
Depends R (>= 3.0.0), methods
Imports DBI, R6, dplyr, dbplyr, later
Suggests testthat, tibble, RSQLite, RMySQL
URL https://github.com/rstudio/pool
BugReports https://github.com/rstudio/pool/issues
LazyData TRUE
Collate 'utils.R' 'scheduler.R' 'pool.R' 'pool-methods.R' 'object.R'
  'DBI.R' 'DBI-connection-interpolate.R' 'DBI-connection-quote.R'
  'DBI-connection-sql.R' 'DBI-connection-transaction.R'
  'DBI-connection.R' 'DBI-driver.R' 'DBI-object-deprecated.R'
  'DBI-object.R' 'DBI-pool.R' 'dbplyr.R'
RoxygenNote 6.0.1
NeedsCompilation no
Author Joe Cheng [aut, cre],
  Barbara Borges [aut],
  RStudio [cph]
Maintainer Joe Cheng <joe@rstudio.com>
Repository CRAN
Date/Publication 2019-10-03 11:30:02 UTC
DBI-connection

\textbf{R topics documented:}

- DBI-connection ........................................ 2
- DBI-connection-interpolate ................................. 4
- DBI-connection-quote ........................................ 5
- DBI-connection-sql ........................................ 5
- DBI-connection-transaction ............................... 6
- DBI-object ................................................. 7
- DBI-object-deprecated .................................... 8
- dbPool ....................................................... 8
- dplyr-db-methods .......................................... 10
- object ....................................................... 13
- Pool .......................................................... 14
- Pool-class ................................................... 15
- poolCheckout ............................................... 15
- poolReturn .................................................. 15
- poolWithTransaction ....................................... 16
- show.Pool-method ......................................... 17

Index 19

\begin{tabular}{ll}
DBI-connection & \textit{DBIConnection methods.} \\
\end{tabular}

\textbf{Description}

Pool object wrappers around \texttt{DBIConnection} methods. For the original documentation, see:

- \texttt{dbSendQuery}
- \texttt{dbGetQuery}
- \texttt{dbExecute}
- \texttt{dbListResults}
- \texttt{dbListFields}
- \texttt{dbListTables}
- \texttt{dbReadTable}
- \texttt{dbWriteTable}
- \texttt{dbExistsTable}
- \texttt{dbRemoveTable}
**Usage**

```r
## S4 method for signature 'Pool'
dbSendQuery(conn, statement, ...)

## S4 method for signature 'Pool,character'
dbGetQuery(conn, statement, ...)

## S4 method for signature 'Pool,character'
dbExecute(conn, statement, ...)

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

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

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

## S4 method for signature 'Pool,character'
dbReadTable(conn, name, ...)

## S4 method for signature 'Pool,ANY'
dbWriteTable(conn, name, value, ...)

## S4 method for signature 'Pool,ANY'
dbExistsTable(conn, name, ...)

## S4 method for signature 'Pool,ANY'
dbRemoveTable(conn, name, ...)
```

**Arguments**

- `conn, statement, ...`
  
  See `dbSendQuery`.

- `name, value`
  
  See `dbWriteTable`.

**Examples**

```r
if (requireNamespace("RSQLite", quietly = TRUE)) {
  mtcars1 <- mtcars[c(1:16), ]  # first half of the mtcars dataset
  mtcars2 <- mtcars[-c(1:16), ]  # second half of the mtcars dataset

  pool <- dbPool(RSQLite::SQLite(), dbname = "::memory:"

  # write the mtcars1 table into the database
dbWriteTable(pool, "mtcars", mtcars1, row.names = TRUE)

  # list the current tables in the database
```
dbListTables(pool)

# read the "mtcars" table from the database (only 16 rows)
dbReadTable(pool, "mtcars")

# append mtcars2 to the "mtcars" table already in the database
dbWriteTable(pool, "mtcars", mtcars2, row.names = TRUE, append = TRUE)

# read the "mtcars" table from the database (all 32 rows)
dbReadTable(pool, "mtcars")

# get the names of the columns in the databases's table
dbListFields(pool, "mtcars")

# use dbExecute to change the "mpg" and "cyl" values of the 1st row
dbExecute(pool,
  paste(
    "UPDATE mtcars",
    "SET mpg = '22.0', cyl = '10'",
    "WHERE row_names = 'Mazda RX4'",
    )
  )

# read the 1st row of "mtcars" table to confirm the previous change
dbGetQuery(pool, "SELECT * FROM mtcars WHERE row_names = 'Mazda RX4'")

# drop the "mtcars" table from the database
dbRemoveTable(pool, "mtcars")

# list the current tables in the database
dbListTables(pool)

poolClose(pool)

} else {
  message("Please install the 'RSQLite' package to run this example")
}
Usage

## S4 method for signature 'Pool'
sqlInterpolate(conn, sql, ..., .dots = list())

## S4 method for signature 'Pool'
sqlParseVariables(conn, sql, ...)

Arguments

conn, sql, ..., .dots
See sqlInterpolate.

Description

Pool object wrappers around DBIConnection methods that deal with SQL escaping needs. See SQL for the original documentation.

Usage

## S4 method for signature 'Pool,ANY'
dbQuoteIdentifier(conn, x, ...)

## S4 method for signature 'Pool,ANY'
dbQuoteString(conn, x, ...)

Arguments

conn, x, ...  See SQL.

Description

Pool object wrappers around DBIConnection methods that deal with the creation and manipulation of SQL tables. See sqlData, sqlCreateTable and sqlAppendTable for the original documentation.
Usage

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

## S4 method for signature 'Pool'
sqlCreateTable(con, table, fields, row.names = NA,
                   temporary = FALSE, ...)

## S4 method for signature 'Pool'
sqlAppendTable(con, table, values, row.names = NA, ...)

Arguments

con, value, row.names, ...
  See sqlData.

table, fields, temporary
  See sqlCreateTable.

values
  See sqlAppendTable.

DBI-connection-transaction

DBIConnection transaction methods are not supported for Pool objects.

Description

You cannot perform SQL transaction using a Pool object directly (because that would imply keeping a connection open and not knowing when to return it back to the pool).

Usage

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

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

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

## S4 method for signature 'Pool'
dbWithTransaction(conn, code)

Arguments

conn, ..., code  See transactions.
Details

If you must use these methods, fetch an actual connection first with `conn <- poolCheckout(pool)` – then call the appropriate DBI method on `conn`. Since you’re fetching a connection from the pool yourself, you must also remember to return it back to the pool when you’re done: `poolReturn(conn)` (otherwise, you have a leaked connection).

For simple transactions, consider using `poolWithTransaction` instead, which is safer since it does not require you to fetch and release the connection yourself. See `transactions` for the original documentation.

## Description

Pool object wrappers around `DBIOObject` methods. See `dbDataType`, `dbGetInfo` and `dbIsValid` for the original documentation.

## Usage

```r
## S4 method for signature 'Pool'
dbDataType(dbObj, obj, ...)
## S4 method for signature 'Pool'
dbGetInfo(dbObj, ...)
## S4 method for signature 'Pool'
dbIsValid(dbObj, obj, ...)
```

## Arguments

dbObj, obj, ... See `dbDataType`.

## Examples

```r
if (requireNamespace("RSQLite", quietly = TRUE)) {
  pool <- dbPool(RSQLite::SQLite(), dbname = "::memory:"
  dbGetInfo(pool)
  dbIsValid(pool)

  dbDataType(pool, 1:5)
  dbDataType(pool, 1)
  dbDataType(pool, TRUE)
  dbDataType(pool, Sys.Date())
  dbDataType(pool, Sys.time())
  dbDataType(pool, Sys.time() - as.POSIXct(Sys.Date()))
  dbDataType(pool, c("x", "abc"))
}
```
dbDataType(pool, list(raw(10), raw(20)))
dbDataType(pool, I(3))
dbDataType(pool, iris)

poolClose(pool)

dbIsValid(pool)

message("Please install the 'RSQLite' package to run this example")
```

---

**DBI-object-deprecated**  
Make R identifiers into legal SQL identifiers.

**Description**

Pool object wrappers around DBIObject methods. See `make.db.names` for the original documentation. Note that these methods are DEPRECATED. Please use `dbQuoteIdentifier` (or possibly `dbQuoteString`) instead, as documented in **DBI-connection-quote**.

**Usage**

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

## S4 method for signature 'Pool,character'
isSQLKeyword(dbObj, name,  
              keywords = .SQL92Keywords, case = c("lower", "upper", "any")[3], ...)

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

**Arguments**

```
dbObj, names, keywords, unique, allow.keywords, name, case, ...
```

see `make.db.names`

---

**dbPool**  
Create a DBI Database Connection Pool.

**Description**

A wrapper around `poolCreate` to simplify the creation of a DBI database connection pool. Check the documentation of `poolCreate` for a generic overview of the parent function and the Pool object. The main thing to point out is that, for `dbPool`, you always need to provide a DBI driver (i.e. of class **DBIDriver-class**), and it should always be accompanied by the required authorization arguments (see the example below).
Usage

dbPool(drv, ..., validateQuery = NULL)

Arguments

[..., validateQuery = NULL]

drv An object that inherits from DBI::DBI-class, or an existing DBI::DBIConnection-class object (in order to clone an existing connection).

... Arguments needed for both dbConnect (mandatory if required by the DBI::DBI you're using) and poolCreate (optional) - all arguments should be named:

1. The required authorization arguments needed by the DBMS instance; these typically include user, password, dbname, host, port, etc. For details check the appropriate DBI::DBI’s documentation.

2. Optionally, override the poolCreate defaults: minSize (minimum number of connections that the pool should have at all times), maxSize (maximum number of connections that the pool may have at any time), idleTimeout (number of seconds to wait before closing a connection, if the number of connection is above minSize), and validationInterval (number of seconds to wait before validating the connection again).

validateQuery The query to run to verify that the connection is valid (it should be as simple as possible). If this is not provided, dbPool will try a few possibilities, but these are not exhaustive.

Examples

```r
if (requireNamespace("RMySQL", quietly = TRUE)) {
  pool <- dbPool(
    drv = RMySQL::MySQL(),
    dbname = "shinydemo",
    host = "shiny-demo.csa7qlmgur2𝐑.ReadWrite.amazonaws.com",
    username = "guest",
    password = "guest"
  )

  dbGetQuery(pool, "SELECT * from City LIMIT 5;")
  #> ID Name CountryCode District Population
  #> 1 1 Kabul AFG Kabol 1780000
  #> 2 2 Qandahar AFG Qandahar 237500
  #> 3 3 Herat AFG Herat 186800
  #> 4 4 Mazar-e-Sharif AFG Balkh 127800
  #> 5 5 Amsterdam NLD Noord-Holland 731200

  poolClose(pool)
}
```
Pool object wrappers around DBIConnection methods, whose generics are defined either in dplyr or in dbplyr. For the original documentation, see dplyr’s reference page and dbplyr’s reference page.

### Usage

```r
## S3 method for class 'Pool'
copy_to(dest, df, name = deparse(substitute(df)),
       overwrite = FALSE, temporary = TRUE, ...)

## S3 method for class 'Pool'
tbl(src, from, ...)

## S3 method for class 'Pool'
db_analyze(con, table, ...)

## S3 method for class 'Pool'
db_begin(con, ...)

## S3 method for class 'Pool'
db_commit(con, ...)

## S3 method for class 'Pool'
db_create_index(con, table, columns, name = NULL,
                 unique = FALSE, ...)

## S3 method for class 'Pool'
db_create_indexes(con, table, indexes = NULL, unique = FALSE,
                   ...)  

## S3 method for class 'Pool'
db_create_table(con, table, types, temporary = FALSE, ...)

## S3 method for class 'Pool'
db_data_type(con, fields)

## S3 method for class 'Pool'
db_desc(x)

## S3 method for class 'Pool'
db_drop_table(con, table, force = FALSE, ...)
```
## S3 method for class 'Pool'
\texttt{db_explain}(con, sql, ...)

## S3 method for class 'Pool'
\texttt{db_has_table}(con, table)

## S3 method for class 'Pool'
\texttt{db_insert_into}(con, table, values, ...)

## S3 method for class 'Pool'
\texttt{db_list_tables}(con)

## S3 method for class 'Pool'
\texttt{db_query_fields}(con, sql, ...)

## S3 method for class 'Pool'
\texttt{db_query_rows}(con, sql, ...)

## S3 method for class 'Pool'
\texttt{db_rollback}(con, ...)

## S3 method for class 'Pool'
\texttt{db_save_query}(con, sql, name, temporary = TRUE, ...)

## S3 method for class 'Pool'
\texttt{db_write_table}(con, table, types, values, temporary = FALSE, ...)

## S3 method for class 'Pool'
\texttt{sql_escape_ident}(con, x)

## S3 method for class 'Pool'
\texttt{sql_escape_string}(con, x)

## S3 method for class 'Pool'
\texttt{sql_join}(con, x, y, vars, type = "inner", by = NULL, ...)

## S3 method for class 'Pool'
\texttt{sql_select}(con, select, from, where = NULL, group_by = NULL, having = NULL, order_by = NULL, limit = NULL, distinct = FALSE, ...)

## S3 method for class 'Pool'
\texttt{sql_semi_join}(con, x, y, anti = FALSE, by = NULL, ...)

## S3 method for class 'Pool'
\texttt{sql_subquery}(con, from, name = random_table_name(), ...)

## S3 method for class 'Pool'
sql_translate_env(con)

## S3 method for class 'Pool'
db_collect(con, sql, n = -1, warn_incomplete = TRUE, ...)

## S3 method for class 'Pool'
db_compute(con, table, sql, temporary = TRUE, unique_indexes = list(), indexes = list(), ...)

## S3 method for class 'Pool'
db_copy_to(con, table, values, overwrite = FALSE, types = NULL, temporary = TRUE, unique_indexes = NULL, indexes = NULL, analyze = TRUE, ...)

## S3 method for class 'Pool'
db_sql_render(con, sql, ...)

## S3 method for class 'Pool'
sql_escape_logical(con, x)

### Arguments
- dest, df, name, overwrite, temporary, ..., src, from, con, table, columns, unique, indexes, types, fields, x, force, sql, ... type, by, select, where, group_by, having, order_by, limit, distinct, anti, n, warn_incomplete, unique_indexes, analyze
- See original documentation.

### Examples

```r
if (requireNamespace("RSQLite", quietly = TRUE)) {
  library(dplyr)

  pool <- dbPool(RSQLite::SQLite(), dbname = "::memory::")

  # describe the type of the pool/its connections
  db_desc(pool)

  # use dplyr syntax to copy a table into the database
  copy_to(pool, mtcars, "mtcars", temporary = FALSE)

  # list the current tables in the database
  db_list_tables(pool)

  # extract a table from the database
  mtcars_db <- tbl(pool, "mtcars")

  # select only 3 columns
  mtcars_db_thin <- select(mtcars_db, mpg, cyl, disp)

  # get the names of the columns in the databases's table
  db_query_fields(pool, "mtcars")

  # get the number of rows in the databases's table
  ...}
```
```r
db_query_rows(pool, "mtcars")

# drop the "mtcars" table from the database
db_drop_table(pool, "mtcars")

# list the current tables in the database
db_list_tables(pool)

poolClose(pool)

} else {
    message("Please install the 'RSQLite' package to run this example")
}
```

---

<table>
<thead>
<tr>
<th>object</th>
<th>Pooled object methods.</th>
</tr>
</thead>
</table>

**Description**

For backend authors only. Authors should implement all of these, which are then called by the Pool class methods. These should not be called directly either by backend authors or by the end users.

**Usage**

- `onActivate(object)`
- `onPassivate(object)`
- `onDestroy(object)`
- `onValidate(object, query)`

```r
## S4 method for signature 'DBIConnection'
onPassivate(object)

## S4 method for signature 'DBIConnection'
onDestroy(object)

## S4 method for signature 'DBIConnection'
onValidate(object)
```

**Arguments**

- object | A pooled object. |
- query | A simple query that can be used to verify that the object functions as expected. |
Pool Class.

Description

A generic pool class that holds objects. These can be fetched from the pool and released back to it at will, with very little computational cost. The pool should be created only once and closed when it is no longer needed, to prevent leaks. See dbPool for an example of object pooling applied to DBI database connections.

Usage

```r
poolCreate(factory, minSize = 1, maxSize = Inf,
            idleTimeout = 60, validationInterval = 600,
            state = NULL)

poolClose(pool)
```

Arguments

- **factory**: A factory function responsible for the generation of the objects that the pool will hold (ex: for DBI database connections, this function is dbConnect). It must take no arguments.
- **minSize**: An optional number specifying the minimum number of objects that the pool should have at all times.
- **maxSize**: An optional number specifying the maximum number of objects that the pool may have at any time.
- **idleTimeout**: The number of seconds that an idle object will be kept in the pool before it is destroyed (only applies if the number of objects is over the minSize). Use Inf if you want created objects never to be destroyed (there isn’t a great reason for this usually).
- **validationInterval**: The minimum number of seconds that pool will wait before running a validation check on the next checked out object. By not necessarily validating every checked out object, there can be substantial performance gains (especially if the interval between checking out new objects is very small).
- **state**: A pool public variable to be used by backend authors as necessary.
- **pool**: A Pool object previously created with poolCreate.

See Also

- dbPool
- poolCheckout
- poolReturn
Pool-class

S4 class for compatibility with DBI methods

Description

S4 class for compatibility with DBI methods

poolCheckout

Checks out an object from the pool.

Description

Should be called by the end user if they need a persistent object, that is not returned to the pool automatically. When you don’t longer need the object, be sure to return it to the pool using poolReturn(object).

Usage

poolCheckout(pool)

Arguments

pool

The pool to get the object from.

poolReturn

Returns an object back to the pool.

Description

Should be called by the end user if they previously fetched an object directly using object <- poolCheckout(pool) and are now done with said object.

Usage

poolReturn(object)

Arguments

object

A pooled object.
poolWithTransaction  

_Self-contained database transactions using pool_

**Description**

This function allows you to use a pool object directly to execute a transaction on a database connection, without ever having to actually check out a connection from the pool and then return it. Using this function instead of the direct transaction methods will guarantee that you don’t leak connections or forget to commit/rollback a transaction.

**Usage**

```r
poolWithTransaction(pool, func)
```

`dbBreak()`

**Arguments**

- **pool**  
  The pool object to fetch the connection from.

- **func**  
  A function that has one argument, `conn` (a database connection checked out from `pool`).

**Details**

This function is similar to `dbWithTransaction`, but its arguments work a little differently. First, it takes in a pool object, instead of a connection. Second, instead of taking an arbitrary chunk of code to execute as a transaction (i.e. either run all the commands successfully or not run any of them), it takes in a function. This function (the `func` argument) gives you an argument to use in its body, a database connection. So, you can use connection methods without ever having to check out a connection. But you can also use arbitrary R code inside the `func`’s body. This function will be called once we fetch a connection from the pool. Once the function returns, we release the connection back to the pool.

Like its DBI sister `dbWithTransaction`, this function calls `dbBegin()` before executing the code, and `dbCommit()` after successful completion, or `dbRollback()` in case of an error. This means that calling `poolWithTransaction` always has side effects, namely to commit or roll back the code executed when `func` is called. In addition, if you modify the local R environment from within `func` (e.g. setting global variables, writing to disk), these changes will persist after the function has returned.

Also, like `dbWithTransaction`, there is also a special function called `dbBreak()` that allows for an early, silent exit with rollback. It can be called only from inside `poolWithTransaction`.

**Value**

`func`’s return value.
show.Pool-method

Examples

```r
if (requireNamespace("RSQLite", quietly = TRUE)) {
  pool <- dbPool(RSQLite::SQLite(), dbname = "::memory:"

  dbWriteTable(pool, "cars", head(cars, 3))
  dbReadTable(pool, "cars")  # there are 3 rows

  ## successful transaction
  poolWithTransaction(pool, function(conn) {
    dbExecute(conn, "INSERT INTO cars (speed, dist) VALUES (1, 1);")
    dbExecute(conn, "INSERT INTO cars (speed, dist) VALUES (2, 2);")
    dbExecute(conn, "INSERT INTO cars (speed, dist) VALUES (3, 3);")
  })
  dbReadTable(pool, "cars")  # there are now 6 rows

  ## failed transaction -- note the missing comma
  tryCatch(
    poolWithTransaction(pool, function(conn) {
      dbExecute(conn, "INSERT INTO cars (speed, dist) VALUES (1, 1);")
      dbExecute(conn, "INSERT INTO cars (speed, dist) VALUES (2, 2);")
      dbExecute(conn, "INSERT INTO cars (speed, dist) VALUES (3, 3);")
    }),
    error = identity
  )
  dbReadTable(pool, "cars")  # still 6 rows

  ## early exit, silently
  poolWithTransaction(pool, function(conn) {
    dbExecute(conn, "INSERT INTO cars (speed, dist) VALUES (1, 1);")
    dbExecute(conn, "INSERT INTO cars (speed, dist) VALUES (2, 2);")
    if (nrow(dbReadTable(conn, "cars")) > 7) dbBreak()
    dbExecute(conn, "INSERT INTO cars (speed, dist) VALUES (3, 3);")
  })
  dbReadTable(pool, "cars")  # still 6 rows

  poolClose(pool)
} else {
  message("Please install the 'RSQLite' package to run this example")
}
```

---

**Description**

Show method
Usage

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

Arguments

object A Pool object.
Index

*Topic datasets
  Pool, 14

- copy_to.Pool (dplyr-db-methods), 10
- db_analyze.Pool (dplyr-db-methods), 10
- db_begin.Pool (dplyr-db-methods), 10
- db_collect.Pool (dplyr-db-methods), 10
- db_compute.Pool (dplyr-db-methods), 10
- db_copy_to.Pool (dplyr-db-methods), 10
- db_create_index.Pool (dplyr-db-methods), 10
- db_create_indexes.Pool (dplyr-db-methods), 10
- db_create_table.Pool (dplyr-db-methods), 10
- db_data_type.Pool (dplyr-db-methods), 10
- db_desc.Pool (dplyr-db-methods), 10
- db_drop_table.Pool (dplyr-db-methods), 10
- db_explain.Pool (dplyr-db-methods), 10
- db_has_table.Pool (dplyr-db-methods), 10
- db_insert_into.Pool (dplyr-db-methods), 10
- db_list_tables.Pool (dplyr-db-methods), 10
- db_query_fields.Pool (dplyr-db-methods), 10
- db_query_rows.Pool (dplyr-db-methods), 10
- db_rollback.Pool (dplyr-db-methods), 10
- db_save_query.Pool (dplyr-db-methods), 10
- db_sql_render.Pool (dplyr-db-methods), 10
- db_write_table.Pool (dplyr-db-methods), 10
- dbBegin.Pool-method (DBI-connection-transaction), 6
- dbBreak (poolWithTransaction), 16
- dbCommit.Pool-method (DBI-connection-transaction), 6
- dbConnect, 9
- dbDataType, 7
- dbDataType.Pool-method (DBI-object), 7
- dbExecute, 2
- dbExecute.Pool, character-method (DBI-connection), 2
- dbExistsTable, 2
- dbExistsTable.Pool, ANY-method (DBI-connection), 2
- dbGetInfo, 7
- dbGetInfo.Pool-method (DBI-object), 7
- dbGetQuery, 2
- dbGetQuery.Pool, character-method (DBI-connection), 2
- DBI-connection, 2
- DBI-connection-interpolate, 4
- DBI-connection-quote, 5
- DBI-connection-sql, 5
- DBI-connection-transaction, 6
- DBI-object, 7
- DBI-object-deprecated, 8
- dbIsValid, 7
- dbIsValid.Pool-method (DBI-object), 7
- dbListFields, 2
- dbListFields.Pool, character-method (DBI-connection), 2
- dbListResults, 2
- dbListResults.Pool-method (DBI-connection), 2
- dbListTables, 2
- dbListTables.Pool-method (DBI-connection), 2
- dbPool, 8, 14
- dbQuoteIdentifier.Pool, ANY-method (DBI-connection-quote), 5
- dbQuoteString.Pool, ANY-method