Package: nolock (via r-universe)

September 12, 2024

Type Package

Title Append 'WITH (NOLOCK)' to 'SQL' Queries, Get Packages in Active Script

Version 1.1.0

Description Provides a suite of tools that can assist in enhancing the processing efficiency of 'SQL' and 'R' scripts. - The 'libr_unused()' retrieves a vector of package names that are called within an 'R' script but are never actually used in the script. - The 'libr_used()' retrieves a vector of package names actively utilized within an 'R' script; packages loaded using 'library()' but not actually used in the script will not be included. - The 'libr_called()' retrieves a vector of all package names which are called within an 'R' script. - 'nolock()' appends 'WITH (nolock)' to all tables in 'SQL' queries. This facilitates reading from databases in scenarios where non-blocking reads are preferable, such as in high-transaction environments.

License GPL-3

Encoding UTF-8

Imports crayon, rstudioapi, utils, stringr, NCmisc

RoxygenNote 7.2.3

NeedsCompilation no

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Date/Publication 2023-11-15 06:00:02 UTC

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

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

RemoteRef HEAD

RemoteSha eba7418051f43670d9d4db5c0b89afe981848f02

Contents

libr_called *'Get Packages Called in the Active 'R' Script'*

Description

Retrieves a vector of all package names which are called within an 'R' script.

Usage

```
libr_called(script = NULL)
```

Arguments

script   Character vector. 'R' script to be processed. If NULL, an active 'R' script is used.

Value

Retrieves a vector of package names.

Examples

```
  script_content <- 'library(rstudioapi)
ActiveDocument <- getActiveDocumentContext()$path
min_c <- min(c(1,2,3))
require(dplyr)
pacman::p_load(tidymodels)'

  temp_script_path <- tempfile(fileext = ".R")
  writeLines(script_content, con = temp_script_path)

  libr_called(script = temp_script_path)

  unlink(temp_script_path)
```

libr_unused *'Get Unused Packages in the Active 'R' Script'*

Description

Retrieves a vector of package names that are called within an 'R' script but are never actually used in the script.

Usage

```
  libr_unused(script = NULL)
```

Arguments

script	Character vector. 'R' script to be processed. If NULL, an active 'R' script is used.

Value

Retrieves a vector of package names which are never really used in the code.

Examples

```
  script_content <- 'library(rstudioapi)
ActiveDocument <- getActiveDocumentContext()$path
min_c <- min(c(1,2,3))
require(dplyr)
pacman::p_load(tidymodels)'

  temp_script_path <- tempfile(fileext = ".R")
  writeLines(script_content, con = temp_script_path)

  libr_unused(script = temp_script_path)

  unlink(temp_script_path)
```

libr_used *'Get Packages Used in the Active Script'*

Description

The 'libr_used()' retrieves a vector of package names actively utilized within an 'R' script; packages loaded using 'library()' but not actually used in the script will not be included.

Usage

```
libr_used(script = NULL)
```

Arguments

`script` Character vector. ’R’ script to be processed. If NULL, an active ’R’ script is used.

Value

Returns the vector of all package names used in the active ’R’ script, based on all the functions used in the script with fully loaded namespaces in the environment.

Examples

```
script_content <- 'library(rstudioapi)
ActiveDocument <- getActiveDocumentContext()$path
min_c <- min(c(1,2,3))
'

temp_script_path <- tempfile(fileext = ".R")
writeLines(script_content, con = temp_script_path)

libr_used(script = temp_script_path)

unlink(temp_script_path)
```

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nolock *’Append WITH (NOLOCK) to SQL Queries’*

Description

Automatically appends ’WITH (nolock)’ to all tables in ’SQL’ queries using a utility function. This facilitates reading from databases in scenarios where non-blocking reads are preferable, such as in high-transaction environments.

Usage

```
nolock(query = NULL)
```

Arguments

`query` Character vector. ’SQL’ query to be processed. If NULL, a temporary ’SQL’ text document is opened for user input.

Value

Returns the processed ’SQL’ query as a character vector with ’WITH (nolock)’ added for each table in the query.

Examples

```
example_SQL <- "

WITH CTE AS (SELECT C.TABLE_NAME,
                    C.COLUMN_NAME,
                    T.TABLE_TYPE
             FROM INFORMATION_SCHEMA.COLUMNS AS C
                      JOIN INFORMATION_SCHEMA.TABLES T ON C.TABLE_NAME = T.TABLE_NAME)

SELECT *
FROM CTE;"

nolock(query = example_SQL)

## Not run:
nolock()

## End(Not run)
```

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