Package ‘nolock’

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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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libr_called

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

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)
libr_used

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

```r
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)
```

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

```r
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)
```

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

```r
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

```r
eexample_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;"
```

'Append WITH (NOLOCK) to SQL Queries'
nolock(query = example_SQL)

## Not run:
nolock()

## End(Not run)
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