

# 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	<i>'Get Packages Called in the Active 'R' Script'</i>
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**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)
```

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libr_unused	<i>'Get Unused Packages in the Active 'R' Script'</i>
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**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)
```

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libr_used	<i>'Get Packages Used in the Active Script'</i>
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**Description**

The `'libr_unused()'` 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_unused(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	<i>'Append WITH (NOLOCK) to SQL Queries'</i>
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**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.
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**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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