

# Package ‘SQL’

January 20, 2025

**Type** Package

**Title** Executes 'SQL' Statements

**Version** 0.1.1

**Description** Runs 'SQL' statements on in-memory data frames within a temporary in-memory 'duckdb' data base.

**License** GPL (>= 2)

**Encoding** UTF-8

**ByteCompile** yes

**Depends** R (>= 4.1.0)

**Imports** DBI, duckdb, arrow, stringr

**NeedsCompilation** no

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**Repository** CRAN

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SQL	<i>Run duckdb SQL statements on data frames</i>
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## Description

Runs Duckdb SQL statements on in-memory data frames without registering nor copying them. Optionnaly sends the result of a query to a parquet file in an efficient way. Using the 'path' argument may be be twenty times faster than using the COPY ... TO SQL statement.

**Usage**

```
SQL(query, path)
```

**Arguments**

query	A character string containing SQL statements understandable by Duckdb.
path	A path to a parquet file to be created.

**Value**

If 'path' is not given a value, returns the result of the query as a data frame, else returns an invisible NULL.

**Examples**

```
SQL("SELECT * FROM mtcars LIMIT 1")

# Temporary tables may be created but must be quoted when used
SQL("
  CREATE TABLE cyls AS SELECT DISTINCT cyl FROM mtcars;
  SELECT * FROM 'cyls'
")

## Not run:
# Mixing data frames and parquet files, then writing to parquet
dep <- rio::import('V:/PALETTES/IGoR/data/dep2014.dbf')

SQL(
  "SELECT a.*,b.REGION
  FROM 'V:/PALETTES/parquet/rp68a19.parquet' a
  LEFT JOIN dep b
  ON a.DR=b.DEP",
  'V:/PALETTES/tmp/rp68a19s.parquet'
)

## End(Not run)
```

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