

Package ‘SQL’

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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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SQL *Run duckdb SQL statements on data frames*

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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