Package 'tidyquery'

January 14, 2023

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query

Query an R data frame with SQL

Description

query takes a SQL SELECT statement and uses it to query an R data frame

Usage

```
query(data, sql)
```

Arguments

data a data frame or data frame-like object (optional)
sql a character string containing a SQL SELECT statement

Details

If the data argument is not specified, then the FROM clause of the SQL statement determines which data frame to query.

The names of data frames and columns are case-sensitive (like in R). Keywords and function names are not case-sensitive (like in SQL).

In addition to R data frames and tibbles (tbl_df objects), this function can query dtplyr_step objects created by **dtplyr**, a **data.table** backend for **dbplyr**. It is also possible to use this function together with **dbplyr** to query remote database tables (tbl_sql objects), but this depends on which database and which backend package (if any) you are using, so results may vary.

This function is subject to the current limitations of the queryparser package.

Value

An object of the same class as data.

Examples

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```
query <- "SELECT origin, dest,
    COUNT(flight) AS num_flts,
    round(AVG(distance)) AS dist,
    round(AVG(arr_delay)) AS avg_delay
    FROM flights
    WHERE distance BETWEEN 200 AND 300
        AND air_time IS NOT NULL
    GROUP BY origin, dest
    HAVING num_flts > 5000
    ORDER BY num_flts DESC, avg_delay DESC
    LIMIT 100;"

query(query)
```

show_dplyr

Show dplyr code equivalent to a SQL query

Description

show_dplyr takes a SQL SELECT statement and prints equivalent dplyr code

Usage

```
show_dplyr(data, sql)
```

Arguments

data a data frame or data frame-like object (optional)
sql a character string containing a SQL SELECT statement

Details

For more details, see query. Instead of running the dplyr code like query does, show_dplyr prints the dplyr code.

In function calls in the printed code, long lists of arguments may be truncated and appended with . . . if you have an older version of the rlang package installed. To fix this, update to a newer version of rlang.

See Also

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