Package 'qst'

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Title Store Tables in SQL Database	
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Author Magnus Thor Torfason	
Maintainer Magnus Thor Torfason <m@zulutime.net></m@zulutime.net>	
Description Provides functions for quickly writing (and reading back) a data.frame to file in 'SQLite' format. The name stands for *Store Tables using 'SQLite'*, or alternatively for *Quick Store Tables* (either way, it could be pronounced as *Quest*). For data.frames containing the supported data types it is intended to work as a drop-in replacement for the 'write_*()' and 'read_*()' functions provided by similar packages.	
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read_qst

qst

Store Tables in SQL Database

Description

This package provides functions for quickly writing (and reading) back a data.frame to file in sqlite format. The name stands for *Store Tables using SQLite*', or alternatively for *Quick Store Tables* (either way, it could be pronounced as *Quest*).

For data.frames containing the supported data types it is intended to work as a drop-in replacement for the write_*() and read_*() functions provided by packages such as fst, feather, qs, and readr packages (as well as the writeRDS() and readRDS() functions).

read_qst

Read a data.frame from an SQLite database

Description

This function reads a data frame from an SQLite database. The database has one table, named data, containing the data. Additional tables, prefixed with meta_, may be added in the future to support additional data types not supported in a native way by SQLite.

By specifying lazy=TRUE, the data.frame will not be read into memory on the read operation, but instead a lazy evaluated data.frame will be returned. This results in a near-instantaneous read operation, but subsequent operation will then be done from disk using SQL translation when the data.frame is passed to other functions or collect() is called on it.

Usage

```
read_qst(path, lazy = FALSE)
```

Arguments

path The path to read from.

lazy If TRUE, the full data.frame will not be read into memory, but instead a lazy

evaluated data.frame will be returned.

Value

A data frame read from the SQLite file found at path

Examples

```
# Write the cars data set to a file, then read it back
cars_db <- tempfile()
write_qst(cars, cars_db, indexes=list("speed"))
dat <- read_qst(cars_db)
unlink(cars_db)</pre>
```

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write_qst	Write a data.frame to an SQLite database	

Description

This function writes a data.frame to an SQLite database. The database has one table, named data, containing the data. Additional tables, prefixed with meta_, may be added in the future to support additional data types not supported in a native way by SQLite.

Usage

```
write_qst(x, path, ..., unique_indexes = NULL, indexes = NULL)
```

Arguments

x A data frame to be written to file. Supported column types are integer, numeric and character.

path The path to write to.

... Other parameters passed to methods.

unique_indexes A list of character vectors. Each element of the list will create a new unique

index over the specified column(s). Duplicate rows will result in failure.

indexes A list of character vectors. Each element of the list will create a new index.

Value

The original data frame passed in x

Examples

```
# Write the cars data set to a file
cars_db <- tempfile()
write_qst(cars, cars_db, indexes=list("speed"))
unlink(cars_db)</pre>
```

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