Package: virta (via r-universe)

November 13, 2026

Type Package

Title Survo Data Virtual Tables for RSQLite

Version 0.9.7

Date 2026-07-07

Depends RSQLite (>= 1.0),DBI,muste (>= 0.5.36)

LinkingTo muste

Description SQLite's loadable extension feature to provide virtual table access to SVO-files.

License Artistic-2.0

LazyLoad yes

Additional_repositories https://rsund.r-universe.dev, https://survo.fi

NeedsCompilation yes

Repository https://rsund.r-universe.dev

Date/Publication 2026-10-14 15:14:34 UTC

RemoteUrl https://github.com/rsund/survor

RemoteRef HEAD

RemoteSha b08376ed2a5818a51c01fa8328c489e90f781ab3

RemoteSubdir pkg/virta

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`init_virtualtables` *Initialize SQLite extension virtual tables on a SQLite DB connection*

Description

This function loads extension virtual tables to make them available to an RSQLite database connection. The databse connection needs to have been created by passing `loadable.extensions = TRUE` to `dbConnect` (this is the default as of RSQLite 0.9-1).

Usage

```
init_virtualtables(db)
```

Arguments

db	An RSQLite database connection as returned by `dbConnect`.

Value

TRUE if the virtual tables were successfully loaded.

Author(s)

Reijo Sund

References

For details on loadable extensions in SQLite, see https://sqlite.org/loadext.html.

For details on virtual tables in SQLite, see https://sqlite.org/vtab.html.

Examples

```
db <- dbConnect(SQLite(), dbname = ":memory:",
                loadable.extensions = TRUE)

init_virtualtables(db)

dbSendQuery(db, "create virtual table t1 using test")
dbGetQuery(db,"select * from t1")

dbDisconnect(db)
```

virta *Survo virtual tables for RSQLite*

Description

Support for using Survo data as SQLite's virtual table using loadable extension feature.

Available virtual tables

You can enable all of the following virtual tables by calling the `init_virtualtables` function on an RSQLite database connection object.

Author(s)

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Examples

```
## basic usage looks like this
db <- dbConnect(SQLite(), dbname = ":memory:")
init_virtualtables(db)

## now you can use virtual tables in SQL queries.
dbDisconnect(db)
```

virta.sql *SQL queries from Muste (SVO)-files using virtual tables*

Description

Makes it possible to easily utilize Muste (SVO)-files in SQL-queries and also move output results directly to SVO-files.

Usage

```
virta.sql(query,destfile,database,encod)
```

Arguments

`query`	SQL query
`destfile`	path to SVO-output file
`database`	path to RSQLite database file to be used (defaults to memory)
`encod`	force enconding (defaults to UTF-8)

Details

Initializes database connection, enables virtual tables (references to SVO-files in queries must be given as MUSTE.<path to SVO-file>), runs the query, returns R data frame or outputs SVO-file.

Value

R data frame or SVO-file.

Author(s)

Reijo Sund

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