Package 'filehashSQLite'

October 13, 2022

Version 0.2-6

Depends R (>= 4.0.0), filehash

Imports RSQLite, methods, DBI

Title Simple Key-Value Database Using SQLite

Author Roger D. Peng <rpeng@jhsph.edu>

Maintainer Roger D. Peng <rpeng@jhsph.edu>

Description Simple key-value database using SQLite as the back end.

License GPL (>= 2)

URL https://github.com/rdpeng/filehashsqlite

Encoding UTF-8

RoxygenNote 7.1.2

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

NeedsCompilation no

Repository CRAN

Date/Publication 2022-05-11 18:50:02 UTC

R topics documented:

`dbDelete,filehashSQLite,character-method`
Delete Object

Description

Delete an object from the database

Usage

```
## S4 method for signature 'filehashSQLite,character'
dbDelete(db, key, ...)
```

Arguments

`db`	object of class "filehashSQLite"
`key`	character vector of key names
`...`	other arguments (not used)

`dbDisconnect,filehashSQLite-method`
Disconnect from Database

Description

Disconnect from Database

Usage

```
## S4 method for signature 'filehashSQLite'
dbDisconnect(conn, ...)
```

Arguments

`conn`	database object
`...`	other arguments (not used)

dbExists,filehashSQLite,character-method
Check Existence of Key

Description

Check to see if a key is in the database

Usage

```
## S4 method for signature 'filehashSQLite,character'
dbExists(db, key, ...)
```

Arguments

db	object of class "filehashSQLite"
key	character vector of key names
...	other arguments (not used)

dbFetch,filehashSQLite,character-method
Fetch Object

Description

Retrieve the value associated with a specific key

Usage

```
## S4 method for signature 'filehashSQLite,character'
dbFetch(db, key, ...)
```

Arguments

db	object of class "filehashSQLite"
key	character, key name
...	other arguments (not used)

`dbInsert,filehashSQLite,character-method`
Insert Object

Description

Insert a key-value pair into a database

Usage

```
## S4 method for signature 'filehashSQLite,character'
dbInsert(db, key, value, ...)
```

Arguments

`db`	object of class "filehashSQLite"
`key`	character, key name
`value`	R object
`...`	other arguments (not used)

`dbList,filehashSQLite-method`
List Keys

Description

Return a character vector of all keys in the database

Usage

```
## S4 method for signature 'filehashSQLite'
dbList(db, ...)
```

Arguments

`db`	object of class "filehashSQLite"
`...`	other arguments (not used)

dbMultiFetch,filehashSQLite,character-method
Fetch Multiple Objects

Description

Return (as a named list) the values associated with a vector of keys

Usage

```
## S4 method for signature 'filehashSQLite,character'
dbMultiFetch(db, key, ...)
```

Arguments

db	object of class "filehashSQLite"
key	character vector of key names
...	other arguments (not used)

dbUnlink,filehashSQLite-method
Unlink Database

Description

Remove a database

Usage

```
## S4 method for signature 'filehashSQLite'
dbUnlink(db, ...)
```

Arguments

db	object of class "filehashSQLite"
...	other arguments (not used)

filehashSQLite *Filehash SQLite Class*

Description

Filehash SQLite Class

Slots

`datafile` character, full path to the file in which the database should be stored

`dbcon` Object of class "SQLiteConnection", a SQLite connection

`drv` 'SQLite' driver

`name` character, the name of the database

Note

"filehashSQLite" databases have a `"["` method that can be used to extract multiple elements in an efficient manner. The return value is a list with names equal to the keys passed to `"["`. If there are keys passed to `"["` that do not exist in the database, a warning is given.

The "SQLite" format for `filehash` uses an ASCII serialization of the data which could result in some rounding error for floating point numbers.

Note that if you use keys that are numbers coerced to character vectors, then you may have trouble with them being coerced to numeric. The SQLite database will see these key values and automatically convert them to numbers.

`[,filehashSQLite,character,ANY,ANY-method`
Fetch Multiple Objects Operator

Description

Return (as a named list) the values associated with a vector of keys

Usage

```
## S4 method for signature 'filehashSQLite,character,ANY,ANY'
x[i, j, ..., drop = TRUE]
```

Arguments

`x`	object of class "filehashSQLite"
`i`	index
`j`	index
`...`	other arguments (not used)
`drop`	drop dimensions

Index