Description

Create a ‘filehash’ database using SQLite as the backend.

Details

The “filehashSQLite” class represents a “filehash” key-value database using the SQLite DBM as the backend. Objects are stored in a single SQLite database table along with their keys.
Objects from the Class

Objects can be created by calls of the form `new("filehashSQLite", ...)`. More likely, one will use the functions `dbCreate` and `dbInit` from the `filehash` package.

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

Extends

Class "filehash", directly.

Methods

dbDelete  signature(db = "filehashSQLite", key = "character"): delete a key-value pair from the database
dbExists  signature(db = "filehashSQLite", key = "character"): check the existence of a specific key or vector of keys
dbFetch  signature(db = "filehashSQLite", key = "character"): retrieve the value associated with a specific key
dbInsert  signature(db = "filehashSQLite", key = "character"): insert a key-value pair
dbList  signature(db = "filehashSQLite"): return character vector of keys currently stored in the database
dbUnlink  signature(db = "filehashSQLite"): delete the entire database
dbMultiFetch  signature(db = "filehashSQLite", key = "character"): return (as a named list) the values associated with a vector of keys

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.

Author(s)

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Examples

```r
library(filehashSQLite)

dbCreate("myTestDB", type = "SQLite")
db <- dbInit("myTestDB", type = "SQLite")
set.seed(100)
db$a <- rnorm(100)
db$b <- "a character element"

with(db, mean(a))

cat(db$b, "\n")

dbUnlink(db)
```
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