Package 'PDSdatabase'

November 19, 2022

Title Download and Connect to the PDSdatabase

Version 0.1.0

Author Nicholas Giangreco

Maintainer Nicholas Giangreco <nick.giangreco@gmail.com>

Description This package makes accessible thousands of observations, summaries, and model estimates of pediatric drug effect signals.
The database was created by Nicholas during his PhD thesis which you can read here (https://doi.org/10.7916/d8-5d9b-6738).
The observations are from the Food and Drug Administration's Adverse Event Reporting System.
Drug effect estimates were estimated across child development stages for the occurrence of an adverse event when exposed to a drug compared to other drugs.
See the methods detailed in Chapter 3 of the thesis.

License MIT + file LICENSE

Encoding UTF-8

RoxygenNote 7.2.2

Imports DBI, RSQLite

Suggests ggplot2, tidyr, stringr, ggthemes, rlang, ggrepel, scales, pacman, dplyr, rmarkdown, knitr

URL https://github.com/ngiangre/PDSdatabase,

   http://nickg.bio/PDSdatabase/

VignetteBuilder knitr

Depends R (>= 2.10)

R topics documented:

---

connect_sqlite_db *Connect to the Pediatric Drug Safety database*

Description

This function makes a sqlite connection from the downloaded database.

Usage

```
connect_sqlite_db(dbname = "effect_peds_19q2_v0.3_20211119.sqlite")
```

Arguments

dbname   The name of the sqlite file

Value

SQLite connection, invisibly

---

disconnect_sqlite_db *Disconnect from the Pediatric Drug Safety database*

Description

This function disconnects the sqlite database connection.

Usage

```
disconnect_sqlite_db(con)
```

Arguments

con   The sqlite connection

Value

TRUE, invisibly

---

download_sqlite_db *Download the Pediatric Drug Safety database*

Description

Thus function downloads the database published in Giangreco et al. 2022.

Usage

```
download_sqlite_db(
 url = "https://pds-database.s3.amazonaws.com/effect_peds_19q2_v0.3_20211119.sqlite",
  path = "./",
  destfile = paste0(path, "effect_peds_19q2_v0.3_20211119.sqlite"),
  method = "auto",
  quiet = TRUE,
  timeout = 360
)
```

Arguments

url	The url of the sqlite database
path	The path where to dump the sqlite database.
destfile	The path and filename where to dump the sqlite database. See download.file
method	The method to download the sqlite database. See download.file
quiet	Whether to download quietly. See download.file
timeout	Extended download session for downloading tihs file. Default is 360 seconds.

Value

TRUE, invisibly