

Package ‘Eunomia’

March 27, 2024

Type Package

Title A Standard Dataset in the OMOP Common Data Model

Version 1.0.3

Date 2024-03-27

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Description A sample dataset in the OMOP (Observational Medical Outcomes Partnership) Common Data Model (CDM) format. The CDM enables uniform storage of observational health care data, and is widely used for health care analytics. 'Eunomia' contains simulated data as well as a subset of the OMOP Vocabulary, and enables testing of additional packages and is used for educational and demonstration purposes.

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URL <https://github.com/OHDSI/Eunomia>

BugReports <https://github.com/OHDSI/Eunomia/issues>

Depends DatabaseConnector (>= 2.2.0)

Imports SqlRender,
readr

Suggests testthat

Encoding UTF-8

LazyData true

RoxygenNote 7.3.1

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`createCohorts`*Construct cohorts*

Description

Creates a set of predefined cohorts in a cohort table. **WARNING:** this will delete all existing cohorts in the table!

Usage

```
createCohorts(  
  connectionDetails,  
  cdmDatabaseSchema = "main",  
  cohortDatabaseSchema = "main",  
  cohortTable = "cohort"  
)
```

Arguments

`connectionDetails`

The connection details to connect to the (Eunomia) database.

`cdmDatabaseSchema`

The name of the database schema holding the CDM data.

`cohortDatabaseSchema`

The name of the database schema where the cohorts will be written.

`cohortTable`

The name of the table in the `cohortDatabaseSchema` where the cohorts will be written.

Value

A data frame listing all created cohorts.

Examples

```
connectionDetails <- getEunomiaConnectionDetails()  
createCohorts(connectionDetails)  
  
connection <- connect(connectionDetails)  
  
sql <- "SELECT COUNT(*)  
FROM main.cohort  
WHERE cohort_definition_id = 1;"  
  
renderTranslateQuerySql(connection, sql)  
  
disconnect(connection)
```

exportToCsv

Extract the Eunomia database to CSV files

Description

Extract the Eunomia database to CSV files

Usage

```
exportToCsv(
  outputFolder = file.path(getwd(), "csv"),
  connectionDetails = getEunomiaConnectionDetails()
)
```

Arguments

outputFolder A folder where the CSV files will be written.

connectionDetails Connection details for the Eunomia database. Defaults to a fresh Eunomia database.

Examples

```
# For this example we'll create a temp folder:
folder <- tempfile()
dir.create(folder)

exportToCsv(folder)

list.files(folder)

# [1] "CARE_SITE.csv"           "CDM_SOURCE.csv"           "COHORT.csv"
# [4] "COHORT_ATTRIBUTE.csv"   "CONCEPT.csv"            "CONCEPT_ANCESTOR.csv"
# [7] "CONCEPT_CLASS.csv"    "CONCEPT_RELATIONSHIP.csv" "CONCEPT_SYNONYM.csv"
# [10] "CONDITION_ERA.csv"      "CONDITION_OCCURRENCE.csv" "COST.csv"
# [13] "DEATH.csv"              "DEVICE_EXPOSURE.csv"      "DOMAIN.csv"
# [16] "DOSE_ERA.csv"           "DRUG_ERA.csv"             "DRUG_EXPOSURE.csv"
# [19] "DRUG_STRENGTH.csv"      "FACT_RELATIONSHIP.csv"    "LOCATION.csv"
# [22] "MEASUREMENT.csv"        "METADATA.csv"             "NOTE.csv"
# [25] "NOTE_NLP.csv"           "OBSERVATION.csv"          "OBSERVATION_PERIOD.csv"
# [28] "PAYER_PLAN_PERIOD.csv"  "PERSON.csv"               "PROCEDURE_OCCURRENCE.csv"
# [31] "PROVIDER.csv"           "RELATIONSHIP.csv"         "SOURCE_TO_CONCEPT_MAP.csv"
# [34] "SPECIMEN.csv"          "VISIT_DETAIL.csv"         "VISIT_OCCURRENCE.csv"
# [37] "VOCABULARY.csv"

# Cleaning up the temp folder used in this example:
unlink(folder, recursive = TRUE)
```

`getEunomiaConnectionDetails`*Get Eunomia Connection Details*

Description

Creates a copy of the Eunomia database, and provides details for connecting to that copy.

Usage

```
getEunomiaConnectionDetails(databaseFile = tempfile(fileext = ".sqlite"))
```

Arguments

<code>databaseFile</code>	The path where the database file will be copied to. By default, the database will be copied to a temporary folder, and will be deleted at the end of the R session.
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Value

A ConnectionDetails object, to be used with the DatabaseConnector package.

Examples

```
connectionDetails <- getEunomiaConnectionDetails()
connection <- connect(connectionDetails)
querySql(connection, "SELECT COUNT(*) FROM person;")
disconnect(connection)
```

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