Package 'CohortDiagnostics'

May 3, 2022

```
Type Package
Title Diagnostics for OHDSI Cohorts
Version 3.0.0
Date 2022-04-27
Maintainer Jamie Gilbert <gilbert@ohdsi.org>
Description
     Diagnostics for cohorts that use the OMOP Common Data Model and the OHDSI tools.
Depends DatabaseConnector (\xi = 5.0.0),
     FeatureExtraction ( i = 3.2.0 ),
     R \ (i = 4.1.0)
Imports Andromeda,
     checkmate,
     clock,
     digest,
     methods,
     Parallel
Logger (
i = 3.0.0
),
     readr (\xi = 2.1.0),
     RJSONIO,
     rlang,
     SqlRender ( i = 1.9.0 ),
     stringr,
     tidyr (\xi = 1.2.0),
     CohortGenerator (\xi = 0.4.0)
Suggests CirceR,
     DT,
     Eunomia,
     ggiraph,
     ggplot2,
     htmltools,
     knitr,
     lubridate,
     pool,
     plotly,
     purrr,
     RColorBrewer,
     remotes,
     rmarkdown,
```

```
ROhdsiWebApi (i = 1.2.0),
      RSQLite (\xi = 2.2.1),
     scales,
     shiny,
     shinydashboard,
     {\rm shiny Widgets},
      testthat,
      withr,
     zip
Remotes ohdsi/Eunomia,
     ohdsi/FeatureExtraction,
      ohdsi/ROhdsiWebApi,\\
      ohdsi/CirceR,
     ohdsi/CohortGenerator\\
License Apache License
{\bf VignetteBuilder} \ {\rm knitr}
\mathbf{URL} \ \text{https://ohdsi.github.io/CohortDiagnostics}, \ \text{https:}
      //github.com/OHDSI/CohortDiagnostics
\mathbf{BugReports} \ \mathsf{https://github.com/OHDSI/CohortDiagnostics/issues}
RoxygenNote 7.1.2
Encoding UTF-8
Language en-US
```

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checkInputFileEncoding

Check character encoding of input file

Description

For its input files, CohortDiagnostics only accepts UTF-8 or ASCII character encoding. This function can be used to check whether a file meets these criteria.

Usage

```
checkInputFileEncoding(fileName)
```

Arguments

fileName The path to the file to check

Value

Throws an error if the input file does not have the correct encoding.

```
createDiagnosticsExplorerZip
```

Create publishable shiny zip

Description

A utility designed for creating a published zip of a shiny app with an sqlite database. Designed for sharing projects on servers like data.ohdsi.org.

Takes the shiny code from the R project and adds an sqlite file to a zip archive. Uncompressed cohort diagnostics sqlite databases can become large very quickly.

Usage

```
createDiagnosticsExplorerZip(
  outputZipfile = file.path(getwd(), "DiagnosticsExplorer.zip"),
  sqliteDbPath = "MergedCohortDiagnosticsData.sqlite",
  shinyDirectory = system.file(file.path("shiny", "DiagnosticsExplorer"), package =
    "CohortDiagnostics"),
  overwrite = FALSE
)
```

Arguments

outputZipfile The output path for the zip file

sqliteDbPath Merged Cohort Diagnostics sqlitedb created with createMergedResultsFile shinyDirectory (optional) Path to the location where the shiny code is stored. By default,

this is the package root

overwrite If the zip file already exists, overwrite it?

createMergedResultsFile

Merge Shiny diagnostics files into sqlite database

Description

This function combines diagnostics results from one or more databases into a single file. The result is an sqlite database that can be used as input for the Diagnostics Explorer Shiny app.

It also checks whether the results conform to the results data model specifications.

Usage

```
createMergedResultsFile(
  dataFolder,
  sqliteDbPath = "MergedCohortDiagnosticsData.sqlite",
  overwrite = FALSE
)
```

Arguments

dataFolder

folder where the exported zip files for the diagnostics are stored. Use the executeDiagnostics function to generate these zip files. Zip files containing results from multiple databases may be placed in the same

folder.

sqliteDbPath

Output path where sqlite database is placed

overwrite

(Optional) overwrite existing sqlite lite db if it exists.

createResultsDataModel

Create the results data model tables on a database server.

Description

Create the results data model tables on a database server.

Usage

```
createResultsDataModel(connection = NULL, connectionDetails = NULL, schema)
```

Arguments

connection

An object of type connection as created using the connect function in the DatabaseConnector package. Can be left NULL if connectionDetails is provided, in which case a new connection will be opened at the start of the function, and closed when the function finishes.

connectionDetails

An object of type connectionDetails as created using the createConnectionDetails function in the DatabaseConnector package. Can be left NULL if connection

is provided.

schema

The schema on the postgres server where the tables will be created.

Details

Only PostgreSQL servers are supported.

executeDiagnostics Execute cohort diagnostics

Description

Runs the cohort diagnostics on all (or a subset of) the cohorts instantiated using the Assumes the cohorts have already been instantiated. with the CohortGenerator package

Characterization: If runTemporalCohortCharacterization argument is TRUE, then the following default covariateSettings object will be created using RFeatureExtraction::createTemporalCovariateS Alternatively, a covariate setting object may be created using the above as an example.

Usage

```
<<<<< HEAD:man/executeDiagnostics.Rd
executeDiagnostics(
  cohortDefinitionSet,
  exportFolder,
 databaseId.
 cohortDatabaseSchema,
  databaseName = databaseId,
  databaseDescription = databaseId,
  connectionDetails = NULL,
  connection = NULL,
  cdmDatabaseSchema,
  tempEmulationSchema = getOption("sqlRenderTempEmulationSchema"),
  cohortTable = "cohort",
 cohortTableNames = CohortGenerator::getCohortTableNames(cohortTable = cohortTable),
  vocabularyDatabaseSchema = cdmDatabaseSchema,
  cohortIds = NULL,
=======
runCohortDiagnostics(
  packageName = NULL,
  cohortToCreateFile = "settings/CohortsToCreate.csv",
  cohortDefinitionSet = NULL,
 baseUrl = NULL,
  cohortSetReference = NULL,
  connectionDetails = NULL,
  connection = NULL,
  cdmDatabaseSchema,
  oracleTempSchema = NULL,
  tempEmulationSchema = getOption("sqlRenderTempEmulationSchema"),
  cohortDatabaseSchema,
  vocabularyDatabaseSchema = cdmDatabaseSchema,
  cohortTable = "cohort",
 cohortTableNames = CohortGenerator::getCohortTableNames(cohortTable = cohortTable),
  cohortIds = NULL,
  inclusionStatisticsFolder = NULL,
```

```
exportFolder,
     databaseId.
     databaseName = databaseId,
     databaseDescription = databaseId,
   >>>>> main:man/runCohortDiagnostics.Rd
     cdmVersion = 5,
     runInclusionStatistics = TRUE,
     runIncludedSourceConcepts = TRUE,
     runOrphanConcepts = TRUE,
     runTimeSeries = FALSE,
     runVisitContext = TRUE,
     runBreakdownIndexEvents = TRUE,
     runIncidenceRate = TRUE,
     runCohortRelationship = TRUE,
     runTemporalCohortCharacterization = TRUE,
      temporalCovariateSettings = FeatureExtraction::createTemporalCovariateSettings(useDemographics
        = TRUE, useDemographicsAge = TRUE, useDemographicsAgeGroup = TRUE,
      useDemographicsRace = TRUE, useDemographicsEthnicity = TRUE, useDemographicsIndexYear
      = TRUE, useDemographicsIndexMonth = TRUE, useDemographicsIndexYearMonth = TRUE,
      useDemographicsPriorObservationTime = TRUE, useDemographicsPostObservationTime =
       TRUE, useDemographicsTimeInCohort = TRUE, useConditionOccurrence = TRUE,
      useProcedureOccurrence = TRUE, useDrugEraStart = TRUE,
                                                                 useMeasurement = TRUE,
      useConditionEraStart = TRUE, useConditionEraOverlap = TRUE, useConditionEraGroupStart
        = FALSE, useConditionEraGroupOverlap = TRUE, useDrugExposure = FALSE,
      useDrugEraOverlap = FALSE, useDrugEraGroupStart = FALSE, useDrugEraGroupOverlap =
      TRUE, useObservation = TRUE, useDeviceExposure = TRUE, useCharlsonIndex = TRUE,
       useDcsi = TRUE, useChads2 = TRUE, useChads2Vasc = TRUE, useHfrs = FALSE,
        temporalStartDays = c(-9999, -365, -180, -30, -365, -30, 0, 1, 31, -9999),
                                         0, 0, 0, -31, -1, 0, 30, 365, 9999)),
        temporalEndDays = c(0,
     minCellCount = 5,
     incremental = FALSE,
     incrementalFolder = file.path(exportFolder, "incremental")
Arguments
   cohortDefinitionSet
                   Data.frame of cohorts must include columns cohortId, cohortName, json,
   exportFolder
                   The folder where the output will be exported to. If this folder does not
                   exist it will be created.
   databaseId
                   A short string for identifying the database (e.g. 'Synpuf').
                   iiiiiiii HEAD:man/executeDiagnostics.Rd
   cohortDatabaseSchema
                   Schema name where your cohort table resides. Note that for SQL Server,
                   this should include both the database and schema name, for example
                   'scratch.dbo'. ======
   cohortDefinitionSet
                   Data.frame of cohorts must include columns cohortId, cohortName, json,
```

)

baseUrl The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

Can be left NULL if packageName and cohortToCreateFile have been

specified. ¿¿¿¿¿¿¿ main:man/runCohortDiagnostics.Rd

databaseName The full name of the database. If NULL, defaults to databaseId.

databaseDescription

A short description (several sentences) of the database. If NULL, defaults to databaseId.

connectionDetails

An object of type connectionDetails as created using the createConnectionDetails function in the DatabaseConnector package. Can be left NULL if connection is provided.

connection

An object of type connection as created using the connect function in the DatabaseConnector package. Can be left NULL if connectionDetails is provided, in which case a new connection will be opened at the start of the function, and closed when the function finishes.

cdmDatabaseSchema

Schema name where your patient-level data in OMOP CDM format resides. Note that for SQL Server, this should include both the database and schema name, for example 'cdm_data.dbo'.

tempEmulationSchema

Some database platforms like Oracle and Impala do not truly support temp tables. To emulate temp tables, provide a schema with write privileges where temp tables can be created.

cohortTable

Name of the cohort table.

cohortTableNames

Cohort Table names used by CohortGenerator package

vocabularyDatabaseSchema

Schema name where your OMOP vocabulary data resides. This is commonly the same as cdmDatabaseSchema. Note that for SQL Server, this should include both the database and schema name, for example 'vocabulary.dbo'.

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cohortTable Name of the cohort table.

cohortTableNames

Cohort Table names used by CohortGenerator package

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cohortIds Optionally, provide a subset of cohort IDs to restrict the diagnostics to.

CdmVersion The version of the OMOP CDM. Default 5. (Note: only 5 is supported.)

runInclusionStatistics

Generate and export statistic on the cohort inclusion rules?

runIncludedSourceConcepts

Generate and export the source concepts included in the cohorts?

run Orphan Concepts

Generate and export potential orphan concepts?

runTimeSeries Generate and export the time series diagnostics?
runVisitContext

Generate and export index-date visit context?

runBreakdownIndexEvents

Generate and export the breakdown of index events?

runIncidenceRate

Generate and export the cohort incidence rates?

runCohortRelationship

Generate and export the cohort relationship? Cohort relationship checks the temporal relationship between two or more cohorts.

runTemporalCohortCharacterization

Generate and export the temporal cohort characterization? Only records with values greater than 0.001 are returned.

temporalCovariateSettings

Either an object of type covariateSettings as created using one of the createTemporalCovariateSettings function in the FeatureExtraction package, or a list of such objects.

minCellCount The minimum cell count for fields contains person counts or fractions.

incremental Create only cohort diagnostics that haven't been created before?

incrementalFolder

If incremental = TRUE, specify a folder where records are kept of which cohort diagnostics has been executed.

Details

The cohortSetReference argument must be a data frame with at least the following columns. These fields will be exported as is to the cohort table that is part of Cohort Diagnostics results data model. Any additional fields found will be stored as JSON object in the metadata field of the cohort table:

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cohortId The cohort Id is the id used to identify a cohort definition. This is required to be unique. It will be used to create file names.

cohortName The full name of the cohort. This will be shown in the Shiny app.

json The JSON cohort definition for the cohort.

sql The SQL of the cohort definition rendered from the cohort json.

====== \itemcohortIdThe cohort Id is the id used to identify a cohort definition. This is required to be unique. It will be used to create file names. It is recommended to be (referrentConceptId * 1000) + a number between 3 to 999 \itematlasIdCohort Id in the webApi/atlas instance. It is a required field to run Cohort Diagnostics in WebApi mode. It is discarded in package mode. \itemcohortNameThe full name of the cohort. This will be shown in the Shiny app. \itemlogicDescriptionA human understandable brief description of the cohort definition. This logic does not have to a fully specified description of the cohort definition, but should provide enough context to help user understand the meaning of the cohort definition \itemreferentConceptIdA standard omop concept id that serves as the referent phenotype definition for the cohort Id (optional) \itelititititi main:man/runCohortDiagnostics.Rd

Examples

```
## Not run:
# Load cohorts (assumes that they have already been instantiated)
cohortTableNames <- CohortGenerator::getCohortTableNames(cohortTable = "cohort")
cohorts <- CohortGenerator::getCohortDefinitionSet(packageName = "MyGreatPackage")
connectionDetails <- createConnectionDetails(
   dbms = "postgresq1",</pre>
```

```
server = "ohdsi.com",
  port = 5432,
  user = "me"
  password = "secure"
executeDiagnostics(
  cohorts = cohorts,
  exportFolder = "export",
  cohortTableNames = cohortTableNames,
  cohortDatabaseSchema = "results",
  cdmDatabaseSchema = "cdm",
  databaseId = "mySpecialCdm",
  connectionDetails = connectionDetails
)
\# Use a custom set of cohorts defined in a data.frame
cohorts <- data.frame(</pre>
  cohortId = c(100),
  cohortName = c("Cohort Name"),
  logicDescription = c("My Cohort"),
  sql = c(readLines("path_to.sql")),
  json = c(readLines("path_to.json"))
executeDiagnostics(
  cohorts = cohorts,
  exportFolder = "export",
  cohortTable = "cohort",
  cohortDatabaseSchema = "results",
  cdmDatabaseSchema = "cdm",
  databaseId = "mySpecialCdm",
  connectionDetails = connectionDetails
## End(Not run)
```

 ${\tt getCdmDataSourceInformation}$

Returns information from CDM source table.

Description

Returns CDM source name, description, release date, CDM release date, version and vocabulary version, where available.

Usage

```
getCdmDataSourceInformation(
  connectionDetails = NULL,
  connection = NULL,
  cdmDatabaseSchema
)
```

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Arguments

connectionDetails

An object of type connectionDetails as created using the createConnectionDetails function in the DatabaseConnector package. Can be left NULL if connection $\frac{1}{2}$

is provided.

connection

An object of type connection as created using the connect function in the DatabaseConnector package. Can be left NULL if connectionDetails is provided, in which case a new connection will be opened at the start of the function, and closed when the function finishes.

cdmDatabaseSchema

Schema name where your patient-level data in OMOP CDM format resides. Note that for SQL Server, this should include both the database and schema name, for example 'cdm_data.dbo'.

Value

Returns a data frame from CDM Data source.

getCohortCounts

Count the cohort(s)

Description

Computes the subject and entry count per cohort

Usage

```
getCohortCounts(
  connectionDetails = NULL,
  connection = NULL,
  cohortDatabaseSchema,
  cohortTable = "cohort",
  cohortIds = c()
)
```

Arguments

connectionDetails

An object of type connectionDetails as created using the createConnectionDetails function in the DatabaseConnector package. Can be left NULL if connection

is provided.

connection

cohortIds

An object of type connection as created using the connect function in the DatabaseConnector package. Can be left NULL if connectionDetails is provided, in which case a new connection will be opened at the start of the function, and closed when the function finishes.

cohortDatabaseSchema

Schema name where your cohort table resides. Note that for SQL Server, this should include both the database and schema name, for example 'scratch.dbo'.

scratch.dbo.

cohortTable Name of the cohort table.

The cohort Id(s) used to reference the cohort in the cohort table. If left

empty, all cohorts in the table will be included.

Value

A tibble with cohort counts

${\tt getDefaultVocabularyTableNames}$

Get a list of vocabulary table names

Description

Get a list of vocabulary table names

Usage

getDefaultVocabularyTableNames()

Value

Get a list of vocabulary table names in results data model

${\tt getResultsDataModelSpecifications}$

Get specifications for Cohort Diagnostics results data model

Description

Get specifications for Cohort Diagnostics results data model

Usage

getResultsDataModelSpecifications()

Value

A tibble data frame object with specifications

launchCohortExplorer Launch the CohortExplorer Shiny app

Description

Launch the CohortExplorer Shiny app

Usage

```
launchCohortExplorer(
  connectionDetails,
  cdmDatabaseSchema,
  cohortDatabaseSchema,
  cohortTable,
  cohortId,
  sampleSize = 100,
  subjectIds = NULL
)
```

Arguments

connectionDetails

An object of type connectionDetails as created using the createConnectionDetails function in the DatabaseConnector package.

cdmDatabaseSchema

Schema name where your patient-level data in OMOP CDM format resides. Note that for SQL Server, this should include both the database and schema name, for example 'cdm_data.dbo'.

cohortDatabaseSchema

Schema name where your cohort table resides. Note that for SQL Server, this should include both the database and schema name, for example 'scratch.dbo'.

cohortTable Name of the cohort table.

cohortId The ID of the cohort.

sampleSize Number of subjects to sample from the cohort. Ignored if subjectIds is

specified.

subjectIds A vector of subject IDs to view.

Details

Launches a Shiny app that allows the user to explore a cohort of interest.

launchDiagnosticsExplorer

Launch the Diagnostics Explorer Shiny app

Description

Launch the Diagnostics Explorer Shiny app

Usage

```
launchDiagnosticsExplorer(
  sqliteDbPath = "MergedCohortDiagnosticsData.sqlite",
  connectionDetails = NULL,
  resultsDatabaseSchema = NULL,
  vocabularyDatabaseSchema = NULL,
  vocabularyDatabaseSchemas = resultsDatabaseSchema,
  aboutText = NULL,
  runOverNetwork = FALSE,
  port = 80,
  launch.browser = FALSE
)
```

Arguments

sqliteDbPath Path to merged sqlite file. See createMergedResultsFile to create file. connectionDetails

> An object of type connectionDetails as created using the createConnectionDetails function in the DatabaseConnector package, specifying how to connect to the server where the CohortDiagnostics results have been uploaded using the uploadResults function.

resultsDatabaseSchema

The schema on the database server where the CohortDiagnostics results have been uploaded.

vocabularyDatabaseSchema

(Deprecated) Please use vocabularyDatabaseSchemas.

vocabularyDatabaseSchemas

(optional) A list of one or more schemas on the database server where the vocabulary tables are located. The default value is the value of the resultsDatabaseSchema. We can provide a list of vocabulary schema that might represent different versions of the OMOP vocabulary tables. It allows us to compare the impact of vocabulary changes on Diagnostics. Not supported with an sqlite database.

aboutText

Text (using HTML markup) that will be displayed in an About tab in the Shiny app. If not provided, no About tab will be shown.

runOverNetwork (optional) Do you want the app to run over your network?

(optional) Only used if runOverNetwork = TRUE. port

launch.browser Should the app be launched in your default browser, or in a Shiny window. Note: copying to clipboard will not work in a Shiny window.

Details

Launches a Shiny app that allows the user to explore the diagnostics

loadCohortsFromPackage

Load Cohort Definitions From A Study Package

Description

Load cohort references for usage in executeDiagnostics.

Usage

```
loadCohortsFromPackage(
  packageName,
  cohortToCreateFile = "settings/cohortsToCreate.csv",
  cohortIds = NULL,
  errorMessage = NULL
)
```

Arguments

packageName

The name of the package containing the cohort definitions. Can be left NULL if baseUrl and cohortSetReference have been specified.

cohortToCreateFile

The location of the cohortToCreate file within the package. Is ignored if baseUrl and cohortSetReference have been specified. The cohortToCreateFile must be .csv file that is expected to be read into a dataframe object identical to requirements for cohortSetReference argument. This csv file is expected to be encoded in either ASCII or UTF-8, if not, an error message will be displayed and process stopped.

cohortIds

Optionally, provide a subset of cohort IDs to restrict the diagnostics to.

errorMessage

checkmate assert collection, used internally for error checks

runCohortRelationshipDiagnostics

Given a set of cohorts get relationships between the cohorts.

Description

Given a set of cohorts, get temporal relationships between the cohort_start_date of the cohorts.

Usage

```
runCohortRelationshipDiagnostics(
  connectionDetails = NULL,
  connection = NULL,
  cohortDatabaseSchema = NULL,
  cdmDatabaseSchema,
  tempEmulationSchema = NULL,
  cohortTable = "cohort",
  targetCohortIds,
  comparatorCohortIds,
  relationshipDays,
  observationPeriodRelationship = TRUE
)
```

Arguments

connectionDetails

An object of type connectionDetails as created using the createConnectionDetails function in the DatabaseConnector package. Can be left NULL if connection is provided.

connection

An object of type connection as created using the connect function in the DatabaseConnector package. Can be left NULL if connectionDetails is provided, in which case a new connection will be opened at the start of the function, and closed when the function finishes.

cohortDatabaseSchema

Schema name where your cohort table resides. Note that for SQL Server, this should include both the database and schema name, for example 'scratch.dbo'.

cdmDatabaseSchema

Schema name where your patient-level data in OMOP CDM format resides. Note that for SQL Server, this should include both the database and schema name, for example 'cdm_data.dbo'.

tempEmulationSchema

Some database platforms like Oracle and Impala do not truly support temp tables. To emulate temp tables, provide a schema with write privileges where temp tables can be created.

cohortTable

Name of the cohort table.

targetCohortIds

A vector of one or more Cohort Ids for use as target cohorts.

${\tt comparatorCohortIds}$

A vector of one or more Cohort Ids for use as feature/comparator cohorts.

relationshipDays

A dataframe with two columns startDay and endDay representing periods of time to compute relationship

observationPeriodRelationship

Do you want to compute temporal relationship between target cohort and observation period table?

runCohortTimeSeriesDiagnostics

Given a set of instantiated cohorts get time series for the cohorts.

Description

This function first generates a calendar period table, that has calendar intervals between the timeSeriesMinDate and timeSeriesMaxDate. Calendar Month, Quarter and year are supported. For each of the calendar interval, time series data are computed. The returned object is a R dataframe that will need to be converted to a time series object to perform time series analysis.

Data Source time series: computes time series at the data source level i.e. observation period table. This output is NOT limited to individuals in the cohort table but is for ALL people in the datasource (i.e. present in observation period table)

Usage

```
runCohortTimeSeriesDiagnostics(
  connectionDetails = NULL,
  connection = NULL,
  tempEmulationSchema = NULL,
  cdmDatabaseSchema,
  cohortDatabaseSchema = cdmDatabaseSchema,
  cohortTable = "cohort",
  runCohortTimeSeries = TRUE,
  runDataSourceTimeSeries = FALSE,
  timeSeriesMinDate = as.Date("1980-01-01"),
  timeSeriesMaxDate = as.Date(Sys.Date()),
  stratifyByGender = TRUE,
  stratifyByAgeGroup = TRUE,
  cohortIds = NULL
)
```

Arguments

connectionDetails

An object of type connectionDetails as created using the createConnectionDetails function in the DatabaseConnector package. Can be left NULL if connection is provided.

connection

An object of type connection as created using the connect function in the DatabaseConnector package. Can be left NULL if connectionDetails is provided, in which case a new connection will be opened at the start of the function, and closed when the function finishes.

tempEmulationSchema

Some database platforms like Oracle and Impala do not truly support temp tables. To emulate temp tables, provide a schema with write privileges where temp tables can be created.

cdmDatabaseSchema

Schema name where your patient-level data in OMOP CDM format resides. Note that for SQL Server, this should include both the database and schema name, for example 'cdm_data.dbo'.

cohortDatabaseSchema

Schema name where your cohort table resides. Note that for SQL Server, this should include both the database and schema name, for example 'scratch.dbo'.

cohortTable

Name of the cohort table.

runCohortTimeSeries

Generate and export the cohort level time series?

runDataSourceTimeSeries

Generate and export the Data source level time series? i.e. using all persons found in observation period table.

timeSeriesMinDate

(optional) Minimum date for time series. Default value January 1st 1980.

timeSeriesMaxDate

(optional) Maximum date for time series. Default value System date.

stratifyByGender

Do you want to stratify by Gender

stratifyByAgeGroup

Do you want to stratify by Age group

cohortIds

A vector of one or more Cohort Ids to compute time distribution for.

take package Dependency Snapshot

Take a snapshot of the R environment

Description

Take a snapshot of the R environment

Usage

takepackageDependencySnapshot()

Details

This function records all versions used in the R environment as used by runCohortDiagnostics. This function was borrowed from OhdsiRTools

Value

A data frame listing all the dependencies of the root package and their version numbers, in the order in which they should be installed.

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uploadResults

Upload results to the database server.

Description

Requires the results data model tables have been created using the createResultsDataModel function.

Set the POSTGRES_PATH environmental variable to the path to the folder containing the psql executable to enable bulk upload (recommended).

Usage

```
uploadResults(
  connectionDetails = NULL,
  schema,
  zipFileName,
  forceOverWriteOfSpecifications = FALSE,
  purgeSiteDataBeforeUploading = TRUE,
  tempFolder = tempdir()
)
```

Arguments

connectionDetails

An object of type connectionDetails as created using the createConnectionDetails function in the DatabaseConnector package.

schema

The schema on the postgres server where the tables have been created.

zipFileName

The name of the zip file.

forceOverWriteOfSpecifications

If TRUE, specifications of the phenotypes, cohort definitions, and analysis will be overwritten if they already exist on the database. Only use this if these specifications have changed since the last upload.

$\verb"purgeSiteDataBeforeUploading"$

If TRUE, before inserting data for a specific databaseId all the data for that site will be dropped. This assumes the input zip file contains the full data for that data site.

tempFolder

A folder on the local file system where the zip files are extracted to. Will be cleaned up when the function is finished. Can be used to specify a temp folder on a drive that has sufficient space if the default system temp space is too limited.