Package 'CohortDiagnostics'

April 13, 2021

```
Type Package
Title Diagnostics for OHDSI Cohorts
Version 2.1.0
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Maintainer Gowtham Rao <rao@ohdsi.org>
Description
     Diagnostics for cohorts that use the OMOP Common Data Model and the OHDSI tools.
Depends DatabaseConnector (\xi = 4.0.0),
     R (i = 4.0.0)
Imports Andromeda,
     checkmate,
     CirceR,
     digest,
     ggplot2,
     ggiraph,
     ParallelLogger (\xi = 2.0.0),
     readr (\xi = 1.4.0),
     rlang,
     RJSONIO,
     ROhdsiWebApi (\xi = 1.2.0),
     SqlRender (\xi = 1.7.0),
     stringr,
     methods
Suggests shiny,
    shinydashboard,
     shinyWidgets,
     DT,
     plotly,
     htmltools,
     RColorBrewer,
     scales,
     knitr,
     rmarkdown,
     Eunomia,
     testthat,
```

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```
RSQLite (\xi = 2.2.1),
     zip
Remotes ohdsi/Eunomia,
     ohdsi/FeatureExtraction,
     ohdsi/ROhdsiWebApi,
     ohdsi/CirceR
License Apache License
VignetteBuilder knitr
URL https://ohdsi.github.io/CohortDiagnostics, https:
     //github.com/OHDSI/CohortDiagnostics
\mathbf{BugReports}\ \mathsf{https://github.com/OHDSI/CohortDiagnostics/issues}
RoxygenNote 7.1.1
Encoding UTF-8
Language en-US
```

R topics documented:

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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

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```
checkInputFileEncoding(fileName)
```

Arguments

 ${\tt fileName}$ The path to the file to check createCohortTable 3

Value

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

createCohortTable $Create\ cohort\ table(s)$

Description

This function creates an empty cohort table. Optionally, additional empty tables are created to store statistics on the various inclusion criteria.

Usage

```
createCohortTable(
  connectionDetails = NULL,
  connection = NULL,
  cohortDatabaseSchema,
  cohortTable = "cohort",
  createInclusionStatsTables = FALSE,
  resultsDatabaseSchema = cohortDatabaseSchema,
  cohortInclusionTable = paste0(cohortTable, "_inclusion"),
  cohortInclusionResultTable = paste0(cohortTable, "_inclusion_result"),
  cohortInclusionStatsTable = paste0(cohortTable, "_inclusion_stats"),
  cohortSummaryStatsTable = paste0(cohortTable, "_summary_stats")
)
```

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'.

cohortTable Name of the cohort table.

 ${\tt createInclusionStatsTables}$

Create the four additional tables for storing inclusion rule statistics?

resultsDatabaseSchema

Schema name where the statistics tables reside. Note that for SQL Server, this should include both the database and schema name, for example 'scratch.dbo'.

cohortInclusionTable

Name of the inclusion table, one of the tables for storing inclusion rule statistics.

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cohortInclusionResultTable

Name of the inclusion result table, one of the tables for storing inclusion rule statistics.

cohortInclusionStatsTable

Name of the inclusion stats table, one of the tables for storing inclusion rule statistics.

${\tt cohortSummaryStatsTable}$

Name of the summary stats table, one of the tables for storing inclusion rule statistics.

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.

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

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.abo

 ${\tt cohortTable} \qquad {\tt Name \ of \ the \ cohort \ table}.$

 ${\sf cohortIds}$ The cohort ${\sf Id}(s)$ 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 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

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 $instantiateCohort \ Ins$

Instantiate a cohort

Description

This function instantiates the cohort in the cohort table. Optionally, the inclusion rule statistics are computed and stored in the inclusion rule statistics tables described in createCohortTable).

Usage

```
instantiateCohort(
  connectionDetails = NULL,
  connection = NULL,
  cdmDatabaseSchema,
  oracleTempSchema = NULL,
  cohortDatabaseSchema = cdmDatabaseSchema,
  cohortTable = "cohort",
  baseUrl = NULL,
  cohortJson = NULL,
  cohortSql = NULL,
  cohortId = NULL,
  generateInclusionStats = FALSE,
  resultsDatabaseSchema = cohortDatabaseSchema,
  vocabularyDatabaseSchema = cdmDatabaseSchema,
  cohortInclusionTable = paste0(cohortTable, "_inclusion"),
  cohortInclusionResultTable = paste0(cohortTable, "_inclusion_result"),
  cohortInclusionStatsTable = paste0(cohortTable, "_inclusion_stats"),
  cohortSummaryStatsTable = paste0(cohortTable, "_summary_stats")
)
```

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.

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'.

oracleTempSchema

Should be used in Oracle to specify a schema where the user has write privileges for storing temporary tables.

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'.

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cohortTable Name of the cohort table.

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

Needn't be provided if cohortJson and cohortSql are provided.

cohortJson A character string containing the JSON of a cohort definition. Needn't

be provided if baseUrl and cohortId are provided.

cohortSql The OHDSI SQL representation of the same cohort definition. Needn't

be provided if baseUrl and cohortId are provided.

cohortId The cohort ID used to reference the cohort in the cohort table.

generateInclusionStats

Compute and store inclusion rule statistics?

resultsDatabaseSchema

Schema name where the statistics tables reside. Note that for SQL Server, this should include both the database and schema name, for example 'scratch.dbo'.

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'.

${\tt cohortInclusionTable}$

Name of the inclusion table, one of the tables for storing inclusion rule statistics.

cohortInclusionResultTable

Name of the inclusion result table, one of the tables for storing inclusion rule statistics.

cohortInclusionStatsTable

Name of the inclusion stats table, one of the tables for storing inclusion rule statistics.

${\tt cohortSummaryStatsTable}$

Name of the summary stats table, one of the tables for storing inclusion rule statistics.

instantiateCohortSet $Instantiate\ a\ set\ of\ cohort$

Description

This function instantiates a set of cohort in the cohort table, using definitions that are fetched from a WebApi interface. Optionally, the inclusion rule statistics are computed and stored in the inclusionStatisticsFolder.

Usage

```
instantiateCohortSet(
  connectionDetails = NULL,
  connection = NULL,
  cdmDatabaseSchema,
  oracleTempSchema = NULL,
  cohortDatabaseSchema = cdmDatabaseSchema,
```

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```
cohortTable = "cohort",
  cohortIds = NULL,
  packageName = NULL,
  cohortToCreateFile = "settings/CohortsToCreate.csv",
  baseUrl = NULL,
  cohortSetReference = NULL,
  generateInclusionStats = FALSE,
  inclusionStatisticsFolder = NULL,
  createCohortTable = FALSE,
  incremental = FALSE,
  incrementalFolder = 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.

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'.

oracleTempSchema

Should be used in Oracle to specify a schema where the user has write privileges for storing temporary tables.

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.

cohortIds

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

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.

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.

cohortSetReference

A data frame with four columns, as described in the details. Can be left NULL if packageName and cohortToCreateFile have been specified.

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generateInclusionStats

Compute and store inclusion rule statistics?

inclusionStatisticsFolder

The folder where the inclusion rule statistics are stored. Can be left NULL if generateInclusionStats = FALSE.

createCohortTable

Create the cohort table? If incremental = TRUE and the table already exists this will be skipped.

incremental Create only cohorts that haven't been created before?

incrementalFolder

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

Details

Currently two ways of executing this function are supported, either (1) [Package Mode] embedded in a study package, assuming the cohort definitions are stored in that package using the ROhdsiWebApi::insertCohortDefinitionSetInPackage, or (2) [WebApi Mode] By using a WebApi interface to retrieve the cohort definitions.

When using this function in Package Mode: Use the packageName and cohortToCreateFile to specify the name of the study package, and the name of the cohortToCreate file within that package, respectively

When using this function in WebApi Mode: use the baseUrl and cohortSetReference to specify how to connect to the WebApi, and which cohorts to fetch, respectively.

Note: if the parameters for both Package Mode and WebApi Mode are provided, then Package mode is preferred.

The cohortSetReference argument must be a data frame with the following columns:

referentConceptId A standard omop concept id that serves as the referant phenotype definition for the cohort Id.

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. It is recommended to be (referrent-ConceptId * 1000) + a number between 3 to 999

webApiCohortId Cohort Id in the webApi/atlas instance. It is a required field to run Cohort Diagnostics in WebApi mode. It is discarded in package mode.

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

logicDescription A 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

Value

A data frame with cohort counts

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(
  dataFolder = "data",
  dataFile = "PreMerged.RData",
  connectionDetails = NULL,
  resultsDatabaseSchema = NULL,
  vocabularyDatabaseSchema = resultsDatabaseSchema,
  aboutText = NULL,
  runOverNetwork = FALSE,
  port = 80,
  launch.browser = FALSE
)
```

Arguments

dataFolder A folder where the premerged file is stored. Use the preMergeDiagnosticsFiles

function to generate this file.

dataFile (Optional) The name of the .RData file with results. It is commonly

known as the Premerged 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

The schema on the database server where the vocabulary tables are lo-

cated.

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?

port (optional) Only used if runOverNetwork = TRUE.

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

```
preMergeDiagnosticsFiles
```

Premerge Shiny diagnostics files

Description

This function combines diagnostics results from one or more databases into a single file. The result is a single file 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

```
preMergeDiagnosticsFiles(dataFolder, tempFolder = tempdir())
```

Arguments

dataFolder folder where the exported zip files for the diagnostics are stored. Use

the ${\tt runCohortDiagnostics}$ function to generate these zip files. Zip files containing results from multiple databases may be placed in the same

folder.

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.

runCohortDiagnostics Run cohort diagnostics

Description

Runs the cohort diagnostics on all (or a subset of) the cohorts instantiated using the ROhdsiWebApi::insertCohortDefinitionSetInPackage function. Assumes the cohorts have already been instantiated.

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

```
runCohortDiagnostics(
  packageName = NULL,
  cohortToCreateFile = "settings/CohortsToCreate.csv",
  baseUrl = NULL,
  cohortSetReference = NULL,
  phenotypeDescriptionFile = NULL,
  connectionDetails = NULL,
  connection = NULL,
  connection = NULL,
  connection = NULL,
  connection = NULL,
```

```
cohortDatabaseSchema,
  vocabularyDatabaseSchema = cdmDatabaseSchema.
  cohortTable = "cohort",
  cohortIds = NULL,
  inclusionStatisticsFolder = file.path(exportFolder, "inclusionStatistics"),
  exportFolder,
  databaseId,
  databaseName = databaseId,
  databaseDescription = databaseId,
  cdmVersion = 5,
  runInclusionStatistics = TRUE,
  runIncludedSourceConcepts = TRUE,
  runOrphanConcepts = TRUE,
  runTimeDistributions = TRUE,
  runVisitContext = TRUE,
  runBreakdownIndexEvents = TRUE,
  runIncidenceRate = TRUE,
  runCohortOverlap = TRUE,
  runCohortCharacterization = TRUE,
  covariateSettings = createDefaultCovariateSettings(),
  runTemporalCohortCharacterization = TRUE,
 temporalCovariateSettings = createTemporalCovariateSettings(useConditionOccurrence =
  TRUE, useDrugEraStart = TRUE, useProcedureOccurrence = TRUE, useMeasurement = TRUE,
  temporalStartDays = c(-365, -30, 0, 1, 31), temporalEndDays = c(-31, -1, 0, 30, 365)),
 minCellCount = 5,
  incremental = FALSE,
  incrementalFolder = file.path(exportFolder, "incremental")
)
```

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.

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.

cohortSetReference

A data frame with four columns, as described in the details. Can be left NULL if packageName and cohortToCreateFile have been specified.

phenotypeDescriptionFile

(Optional) The location of the phenotype description file within the package. The file must be .csv file and have the following columns that may be read into following data types: phenotypeId (double), phenotypeName (character), referentConceptId (double), clinicalDescription (character), literatureReview (character), phenotypeNotes (character). Note: the field

names are in snake_case. Also, character fields should not have 'NA' in it. 'NA's are commonly added by R when R functions exports data from dataframe into CSV. Instead please use " (empty string) to represent absence of data. The literature_review field is expected to be a html link to page that contains resources related to literature review for the phenotype, and will be used to create link-out object. 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.

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'.

oracleTempSchema

Should be used in Oracle to specify a schema where the user has write privileges for storing temporary tables.

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'.

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'.

cohortTable Name of the cohort table.

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

The folder where the inclusion rule statistics are stored. Can be left NULL if runInclusionStatistics = FALSE.

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').

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.

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?

runOrphanConcepts

Generate and export potential orphan concepts?

runTimeDistributions

Generate and export cohort time distributions?

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?

runCohortOverlap

Generate and export the cohort overlap? Overlaps are checked within cohortIds that have the same phenotype ID sourced from the CohortSetReference or cohortToCreateFile.

runCohortCharacterization

Generate and export the cohort characterization? Only records with values greater than 0.0001 are returned.

covariateSettings

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

runTemporalCohortCharacterization

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

temporalCovariateSettings

Either an object of type covariate Settings as created using one of the create TemporalCovariate Settings function in the Feature Extraction package, or a list of such objects.

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

incrementalFolder

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

Details

Currently two ways of executing this function are supported, either (1) [Package Mode] embedded in a study package, assuming the cohort definitions are stored in that package using the ROhdsiWebApi::insertCohortDefinitionSetInPackage, or (2) [WebApi Mode] By using a WebApi interface to retrieve the cohort definitions.

When using this function in Package Mode: Use the packageName and cohortToCreateFile to specify the name of the study package, and the name of the cohortToCreate file within that package, respectively

When using this function in WebApi Mode: use the baseUrl and cohortSetReference to specify how to connect to the WebApi, and which cohorts to fetch, respectively.

Note: if the parameters for both Package Mode and WebApi Mode are provided, then Package mode is preferred.

The cohortSetReference argument must be a data frame with the following columns:

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referentConceptId A standard omop concept id that serves as the referant phenotype definition for the cohort Id.

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. It is recommended to be (referrent-ConceptId * 1000) + a number between 3 to 999

webApiCohortId Cohort Id in the webApi/atlas instance. It is a required field to run Cohort Diagnostics in WebApi mode. It is discarded in package mode.

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

logicDescription A 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

Description

For all the cohorts in the 'cohort' table, this will generate print-friendly text and store it in a new table called 'cohort_extra'.

Usage

```
uploadPrintFriendly(connectionDetails = NULL, schema)
```

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 results are stored.

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()
)
```

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Arguments

connectionDetails

tempFolder

An object of type ${\tt connectionDetails}$ as created using the ${\tt createConnectionDetails}$

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.

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.

data for that data si

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 sufficent space if the default system temp

space is too limited.

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