# Package 'CohortDiagnostics'

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Type Package

**Version** 3.3.0 **Date** 2024-22-10

Title Diagnostics for OHDSI Cohorts

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```
Description CohortDiagnostics is an R utility package for the development and evaluation of pheno-
      type algorithms for
      OMOP CDM compliant data sets. This package provides a standard, end to end, set of analyt-
      ics for understanding
      patient capture including data generation and result exploration through an R Shiny interface.
      Analytics computed include cohort characteristics, record counts, index event misclassifica-
      tion, captured
      observation windows and basic incidence proportions for age, gender and calendar year.
      Through the identification of errors, CohortDiagnostics enables the comparison of multiple can-
      didate cohort
      definitions across one or more data sources, facilitating reproducible research.
Depends DatabaseConnector (>= 5.0.0),
      FeatureExtraction (>= 3.7.1),
      R (>= 4.1.0)
Imports Andromeda (>= 0.6.0),
      ResultModelManager (>= 0.5.2),
      checkmate,
      clock,
      digest,
      dplyr (>= 1.0.0),
      methods,
      ParallelLogger (>= 3.0.0),
      readr (>= 2.1.0),
      RJSONIO,
      rlang,
      SqlRender (>= 1.9.0),
      stringr,
      tidyr (>= 1.2.0),
      CohortGenerator (>= 0.10.0),
      remotes,
      scales
Suggests Eunomia,
      RSQLite (>= 2.2.1),
```

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 knitr,
 shiny,
 OhdsiShinyModules,
 rsconnect,
 yaml
Remotes ohdsi/OhdsiShinyModules
License Apache License
VignetteBuilder knitr
URL https://ohdsi.github.io/CohortDiagnostics, https:
 //github.com/OHDSI/CohortDiagnostics
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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?

4 createResultsDataModel

```
{\tt 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,
  tablePrefix = ""
)
```

# **Arguments**

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.

tablePrefix (Optional) string to insert before table names (e.g. "cd\_") for database table names

 ${\tt createResultsDataModel}$ 

Create the results data model tables on a database server.

# **Description**

Create the results data model tables on a database server.

```
createResultsDataModel(
  connectionDetails = NULL,
  databaseSchema,
  tablePrefix = ""
)
```

## **Arguments**

```
connectionDetails
```

DatabaseConnector connectionDetails instance @seealso[DatabaseConnector::createConnectionDetails instance @seealso[DatabaseConnector::createC

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

tablePrefix (Optional) string to insert before table names (e.g. "cd\_") for database table

names

## **Details**

Only PostgreSQL servers are supported.

```
deployPositConnectApp Rsconnect deploy
```

## **Description**

Deploy your application to an posit connect platform or shinyapps.io server

## Usage

```
deployPositConnectApp(
  appName,
 appDir = tempfile(),
  sqliteDbPath = "MergedCohortDiagnosticsData.sqlite",
 shinyDirectory = system.file(file.path("shiny", "DiagnosticsExplorer"), package =
    "CohortDiagnostics"),
  connectionDetails = NULL,
  shinyConfigPath = NULL,
  resultsDatabaseSchema = NULL,
  vocabularyDatabaseSchemas = resultsDatabaseSchema,
  tablePrefix = "",
  cohortTableName = "cohort",
  databaseTableName = "database",
 port = 80,
 useRenvironFile = FALSE,
)
```

# Arguments

appName string name to call app - should be unique on posit connect server

appDir optional - directory to use to copy files for deployment. If you use a consistent

dir other internal options can change.

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

shinyDirectory (optional) Directyory shiny app code lives. Use this if you wish to modify the

explorer

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.

shinyConfigPath

Path to shiny yml configuration file (use instead of sqliteDbPath or connection-Details object)

results Database Schema

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

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.

tablePrefix

(Optional) string to insert before table names (e.g. "cd\_") for database table names

cohortTableName

(Optional) if cohort table name differs from the standard - cohort (ignores prefix if set)

databaseTableName

(Optional) if database table name differs from the standard - database (ignores prefix if set)

port

(optional) Only used if runOverNetwork = TRUE.

useRenvironFile

logical - not recommended, store db credentials in .Renviron file

... other parameters passed to rsconnect::deployApp

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::createTemporalCovariateSettings Alternatively, a covariate setting object may be created using the above as an example.

```
executeDiagnostics(
  cohortDefinitionSet,
  exportFolder,
  databaseId,
  cohortDatabaseSchema,
  databaseName = NULL,
  databaseDescription = NULL,
  connectionDetails = NULL,
  connection = NULL,
  cdmDatabaseSchema,
```

```
tempEmulationSchema = getOption("sqlRenderTempEmulationSchema"),
  cohortTable = "cohort",
 cohortTableNames = CohortGenerator::getCohortTableNames(cohortTable = cohortTable),
  vocabularyDatabaseSchema = cdmDatabaseSchema,
  cohortIds = NULL,
  cdmVersion = 5,
  runInclusionStatistics = TRUE,
  runIncludedSourceConcepts = TRUE,
  runOrphanConcepts = TRUE,
  runTimeSeries = FALSE,
  runVisitContext = TRUE,
  runBreakdownIndexEvents = TRUE,
  runIncidenceRate = TRUE,
  runCohortRelationship = TRUE,
  runTemporalCohortCharacterization = TRUE,
  temporalCovariateSettings = getDefaultCovariateSettings(),
 minCellCount = 5,
 minCharacterizationMean = 0.01,
  irWashoutPeriod = 0,
  incremental = FALSE,
  incrementalFolder = file.path(exportFolder, "incremental"),
  runFeatureExtractionOnSample = FALSE,
  sampleN = 1000,
  seed = 64374,
  seedArgs = NULL
)
```

# Arguments

cohortDefinitionSet

Data.frame of cohorts must include columns cohortId, cohortName, json, sql

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').

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'.

databaseName The full name of the database. If NULL, defaults to value in cdm\_source table databaseDescription

A short description (several sentences) of the database. If NULL, defaults to value in cdm\_source table

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'.

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?

runOrphanConcepts

Generate and export potential orphan concepts?

runTimeSeries Generate and export the time series diagnostics?

runVisitContext

Generate and export index-date visit context?

 ${\tt runBreakdownIndexEvents}$ 

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.

 $\verb"runTemporalCohortCharacterization"$ 

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. minCharacterizationMean

The minimum mean value for characterization output. Values below this will be cut off from output. This will help reduce the file size of the characterization output, but will remove information on covariates that have very low values. The default is 0.001 (i.e. 0.1 percent)

irWashoutPeriod

Number of days washout to include in calculation of incidence rates - default is  $\boldsymbol{0}$ 

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.

runFeatureExtractionOnSample

Logical. If TRUE, the function will operate on a sample of the data. Default is

FALSE, meaning the function will operate on the full data set.

sampleN Integer. The number of records to include in the sample if runFeatureExtrac-

tionOnSample is TRUE. Default is 1000. Ignored if runFeatureExtractionOn-

Sample is FALSE.

seed Integer. The seed for the random number generator used to create the sample.

This ensures that the same sample can be drawn again in future runs. Default is

64374.

seedArgs List. Additional arguments to pass to the sampling function. This can be used

to control aspects of the sampling process beyond the seed and sample size.

#### **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:

**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.

#### **Examples**

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

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
)
```

## **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.

 ${\tt connection}$ 

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.

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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'.

cohortTable Name of the cohort table.

cohortIds 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

getDataMigrator

Get database migrations instance

# **Description**

Returns ResultModelManager DataMigrationsManager instance.

```
getDataMigrator(connectionDetails, databaseSchema, tablePrefix = "")
```

# **Arguments**

connectionDetails

DatabaseConnector connection details object

databaseSchema String schema where database schema lives

tablePrefix (Optional) Use if a table prefix is used before table names (e.g. "cd\_")

## Value

Instance of ResultModelManager::DataMigrationManager that has interface for converting existing data models

getDefaultCovariateSettings

Get default covariate settings

# Description

Default covariate settings for cohort diagnostics execution

# Usage

getDefaultCovariateSettings()

 ${\tt getDefaultVocabularyTableNames}$ 

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

launchDiagnosticsExplorer

Launch the Diagnostics Explorer Shiny app

# Description

Launch the Diagnostics Explorer Shiny app

```
launchDiagnosticsExplorer(
  sqliteDbPath = "MergedCohortDiagnosticsData.sqlite",
  connectionDetails = NULL,
  shinyConfigPath = NULL,
  resultsDatabaseSchema = NULL,
  vocabularyDatabaseSchema = NULL,
  vocabularyDatabaseSchemas = resultsDatabaseSchema,
  tablePrefix = "",
  cohortTableName = "cohort",
  databaseTableName = "database",
  aboutText = NULL,
  runOverNetwork = FALSE,
  port = 80,
  makePublishable = FALSE,
  publishDir = file.path(getwd(), "DiagnosticsExplorer"),
  overwritePublishDir = FALSE,
  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.

shinyConfigPath

Path to shiny yml configuration file (use instead of sqliteDbPath or connection-Details object)

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.

tablePrefix

(Optional) string to insert before table names (e.g. "cd\_") for database table names

cohortTableName

(Optional) if cohort table name differs from the standard - cohort (ignores prefix if set)

databaseTableName

(Optional) if database table name differs from the standard - database (ignores prefix if set)

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.

makePublishable

(Optional) copy data files to make app publishable to posit connect/shinyapp.io

publishDir If make publishable is true - the directory that the shiny app is copied to overwritePublishDir

(Optional) If make publishable is true - overwrite the directory for publishing

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

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migrateDataModel Migra

Migrate Data model

# **Description**

Migrate data from current state to next state

It is strongly advised that you have a backup of all data (either sqlite files, a backup database (in the case you are using a postgres backend) or have kept the csv/zip files from your data generation.

# Usage

```
migrateDataModel(connectionDetails, databaseSchema, tablePrefix = "")
```

## **Arguments**

```
connectionDetails
```

DatabaseConnector connection details object

databaseSchema String schema where database schema lives

tablePrefix (Optional) Use if a table prefix is used before table names (e.g. "cd\_")

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,
  tempEmulationSchema = NULL,
  cohortTable = "cohort",
  targetCohortIds,
  comparatorCohortIds,
  relationshipDays
)
```

# **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'.

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.

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

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)

```
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
)
```

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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 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.

 ${\tt uploadResults}$ 

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).

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#### Usage

```
uploadResults(
  connectionDetails,
  schema,
  zipFileName,
  forceOverWriteOfSpecifications = FALSE,
  purgeSiteDataBeforeUploading = TRUE,
  tempFolder = tempdir(),
  tablePrefix = "",
  ...
)
```

# **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.

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 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.

tablePrefix (Optional) string to insert before table names (e.g. "cd\_") for database table

names

 $. \ . \ See \ Result Model Manager :: upload Results$ 

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