Package 'AhasHfBkleAmputation'

February 22, 2018

Type Package
Title Comparison of Canagliflozin vs. Alternative Antihyperglycemic Treatments on Risk of Heart Failure Hospitalization and Amputation for Patients with Type 2 Diabetes Mellitus and the Subpopulation with Established Cardiovascular Disease
Version 1.0.0
Author Frank J DeFalco (fdefalco@its.jnj.com), Martijn J. Schuemie [aut] Patrick B. Ryans [aut]
Maintainer Frank J DeFalco <fdefalco@its.jnj.com></fdefalco@its.jnj.com>
Description Execution of Study 501 Estimation Study Execution.
Depends DatabaseConnector
Imports SqlRender, EmpiricalCalibration, Cyclops, FeatureExtraction (>= 2.1.0), CohortMethod, rmarkdown, ggplot2, ff, ffbase, OhdsiRTools (>= 1.5.1)
License Apache 2.0
Encoding UTF-8
LazyData true
RoxygenNote 6.0.1
R topics documented:
createAnalysesDetails
Index

2 createCohorts

createAnalysesDetails Create the analyses details

Description

Create the analyses details

Usage

createAnalysesDetails(workFolder)

Arguments

workFolder

Name of local folder to place results; make sure to use forward slashes (/)

Details

This function creates files specifying the analyses that will be performed.

createCohorts

Create the exposure and outcome cohorts

Description

Create the exposure and outcome cohorts

Usage

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

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 intermediate data can be stored. You will need to have write priviliges in this schema. Note that for SQL Server, this should include both the database and schema name, for example 'cdm_data.dbo'.

cohortTable

The name of the table that will be created in the work database schema. This table will hold the exposure and outcome cohorts used in this study.

oracleTempSchema

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

outputFolder

Name of local folder to place results; make sure to use forward slashes (/)

Details

This function will create the exposure and outcome cohorts following the definitions included in this package.

createFiguresAndTables

Generate diagnostics

Description

Generate diagnostics

Usage

createFiguresAndTables(outputFolder, connectionDetails, cohortDatabaseSchema, cohortTable, oracleTempSchema = oracleTempSchema)

Arguments

outputFolder

Name of local folder where the results were generated; make sure to use forward slashes (/). Do not use a folder on a network drive since this greatly impacts performance.

connectionDetails

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

cohortDatabaseSchema

Schema name where intermediate data can be stored. You will need to have write priviliges in this schema. Note that for SQL Server, this should include both the database and schema name, for example 'cdm_data.dbo'.

cohortTable

The name of the table that will be created in the work database schema. This table will hold the exposure and outcome cohorts used in this study.

oracleTempSchema

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

Details

This function generates figures and tables for the paper. Requires the study to be executed first.

4 execute

```
create Prior Outcomes Covariate Settings\\
```

Create settings for adding prior outcomes as covariates

Description

Create settings for adding prior outcomes as covariates

Usage

```
createPriorOutcomesCovariateSettings(outcomeDatabaseSchema = "unknown",
  outcomeTable = "unknown", outcomeIds, outcomeNames, windowStart = -365,
  windowEnd = -1)
```

Arguments

outcomeDatabaseSchema

The name of the database schema that is the location where the data used to

define the outcome cohorts is available.

outcomeTable The tablename that contains the outcome cohorts.

outcomeIds A vector of cohort_definition_ids used to define outcomes

outcomeNames A vector of names of the outcomes, to be used to create covariate names.

windowStart Start day of the window where covariates are captured, relative to the index date

(0 = index date).

windowEnd End day of the window where covariates are captured, relative to the index date

(0 = index date).

Value

A covariateSettings object.

execute

Execute AhasHfBkleAmputation Study

Description

Execute AhasHfBkleAmputation Study

Usage

```
execute(connectionDetails, cdmDatabaseSchema,
  cohortDatabaseSchema = cdmDatabaseSchema, cohortTable = "cohort",
  oracleTempSchema = cohortDatabaseSchema, outputFolder,
  createCohorts = TRUE, runAnalyses = TRUE, runDiagnostics = TRUE,
  maxCores = 4)
```

execute 5

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 intermediate data can be stored. You will need to have write priviliges in this schema. Note that for SQL Server, this should include both the database and schema name, for example 'cdm_data.dbo'.

table will hold the exposure and outcome cohorts used in this study.

oracleTempSchema

Should be used in Oracle to specify a schema where the user has write priviliges

for storing temporary tables.

outputFolder Name of local folder to place results; make sure to use forward slashes (/). Do

not use a folder on a network drive since this greatly impacts performance.

createCohorts Create the cohortTable table with the exposure and outcome cohorts?

 ${\tt runAnalyses} \qquad {\tt Perform\ the\ cohort\ method\ analyses?}$

runDiagnostics Should study diagnostics be generated?

maxCores How many parallel cores should be used? If more cores are made available this

can speed up the analyses.

Details

This function executes the AhasHfBkleAmputation Study.

Examples

6 generateDiagnostics

generateDiagnostics Generate diagnostics

Description

Generate diagnostics

Usage

generateDiagnostics(outputFolder)

Arguments

outputFolder

Name of local folder where the results were generated; make sure to use forward slashes (/). Do not use a folder on a network drive since this greatly impacts performance.

Details

This function generates analyses diagnostics. Requires the study to be executed first.

Index