

Package ‘OhdsiReportGenerator’

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Type Package

Title Observational Health Data Sciences and Informatics Report Generator

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Description Extract results into R from the Observational Health Data Sciences and Informatics result database (see <<https://ohdsi.github.io/Strategus/results-schema/index.html>>) and generate reports/presentations via 'quarto' that summarize results in HTML format. Learn more about 'OhdsiReportGenerator' at <<https://ohdsi.github.io/OhdsiReportGenerator/>>.

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URL <https://ohdsi.github.io/OhdsiReportGenerator/>,
<https://github.com/OHDSI/OhdsiReportGenerator>

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

VignetteBuilder knitr

Depends R (>= 3.3.0)

Imports CirceR, DatabaseConnector, forestplot, dplyr, ggplot2, ggpubr, gt, htmltools, kableExtra, ParallelLogger, quarto, reactable, rlang, rmarkdown, tibble, tidyr

Suggests knitr, markdown, ResultModelManager, RSQLite, testthat

RoxygenNote 7.3.2

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Contents

addTarColumn	3
formatBinaryCovariateName	4
generateFullReport	4
generatePresentation	6
generatePresentationMultiple	8
getBinaryCaseSeries	10
getBinaryRiskFactors	12
getCaseBinaryFeatures	13
getCaseContinuousFeatures	15
getCaseCounts	17
getCharacterizationDemographics	18
getCmDiagnosticsData	20
getCmEstimation	22
getCmMetaEstimation	24
getCohortDefinitions	26
getCohortSubsetDefinitions	27
getContinuousCaseSeries	28
getContinuousRiskFactors	29
getDechallengeRechallenge	31
getExampleConnectionDetails	33
getIncidenceRates	34
getPredictionCohorts	36
getPredictionDiagnostics	37
getPredictionDiagnosticTable	39
getPredictionHyperParamSearch	40
getPredictionIntercept	41
getPredictionModelDesigns	42
getPredictionPerformances	44
getPredictionPerformanceTable	47
getPredictionTopPredictors	48
getSccsDiagnosticsData	50
getSccsEstimation	52
getSccsMetaEstimation	54
getTargetBinaryFeatures	56
getTargetContinuousFeatures	58
getTargetCounts	60
getTimeToEvent	61
kableDark	63
OhdsiReportGenerator	64
plotAgeDistributions	65
plotCmEstimates	66
plotSccsEstimates	67
plotSexDistributions	68
printReactable	69
processCohorts	71
removeSpaces	72

<code>addTarColumn</code>	<i>addTarColumn</i>
---------------------------	---------------------

Description

Finds the four TAR columns and creates a new column called tar that pastes the columns into a nice string

Usage

`addTarColumn(data)`

Arguments

<code>data</code>	The data.frame with the individual TAR columns that you want to combine into one column
-------------------	---

Details

Create a friendly single tar column

Value

The data data.frame object with the tar column added if seperate TAR columns are found

See Also

Other helper: [formatBinaryCovariateName\(\)](#), [getExampleConnectionDetails\(\)](#), [kableDark\(\)](#), [printReactable\(\)](#), [removeSpaces\(\)](#)

Examples

```
addTarColumn(data.frame(
  tarStartWith = 'cohort start',
  tarStartOffset = 1,
  tarEndWith = 'cohort start',
  tarEndOffset = 0
))
```

formatBinaryCovariateName

formatBinaryCovariateName

Description

Removes the long part of the covariate name to make it friendly

Usage

```
formatBinaryCovariateName(data)
```

Arguments

data The data.frame with the covariateName column

Details

Makes the covariateName more friendly and shorter

Value

The data data.frame object with the covariateName column changed to be more friendly

See Also

Other helper: [addTarColumn\(\)](#), [getExampleConnectionDetails\(\)](#), [kableDark\(\)](#), [printReactable\(\)](#), [removeSpaces\(\)](#)

Examples

```
formatBinaryCovariateName(data.frame(  
  covariateName = c("fdgfgf: dgdgff", "made up test")  
)
```

generateFullReport

generateFullReport

Description

Generates a full report from a Strategus analysis

Usage

```

generateFullReport(
  server,
  username,
  password,
  dbms,
  resultsSchema = NULL,
  targetId = 1,
  outcomeIds = 3,
  comparatorIds = 2,
  indicationIds = "",
  cohortNames = c("target name", "outcome name", "comp name"),
  cohortIds = c(1, 3, 2),
  includeCI = TRUE,
  includeCharacterization = TRUE,
  includeCohortMethod = TRUE,
  includeSccs = TRUE,
  includePrediction = TRUE,
  webAPI = NULL,
  authMethod = NULL,
  webApiUsername = NULL,
  webApiPassword = NULL,
  outputLocation,
  outputName = paste0("full_report_", gsub(":", "_", gsub(" ", "_",
    as.character(date()))), ".html"),
  intermediateDir = tempdir()
)

```

Arguments

server	The server containing the result database
username	The username for an account that can access the result database
password	The password for an account that can access the result database
dbms	The dbms used to access the result database
resultsSchema	The result database schema
targetId	The cohort definition id for the target cohort
outcomeIds	The cohort definition id for the outcome
comparatorIds	The cohort definition id for any comparator cohorts
indicationIds	The cohort definition id for any indication cohorts (if no indication use "")
cohortNames	Friendly names for any cohort used in the study
cohortIds	The corresponding Ids for the cohortNames
includeCI	Whether to include the cohort incidence slides
includeCharacterization	Whether to include the characterization slides

<code>includeCohortMethod</code>	Whether to include the cohort method slides
<code>includeSccs</code>	Whether to include the self controlled case series slides
<code>includePrediction</code>	Whether to include the patient level prediction slides
<code>webAPI</code>	The ATLAS web API to use for the characterization index breakdown (set to NULL to not include)
<code>authMethod</code>	The authorization method for the webAPI
<code>webApiUsername</code>	The username for the webAPI authorization
<code>webApiPassword</code>	The password for the webAPI authorization
<code>outputLocation</code>	The file location and name to save the protocol
<code>outputName</code>	The name of the html protocol that is created
<code>intermediateDir</code>	The work directory for quarto

Details

Specify the connection details to the result database and the schema name to generate the full report.

Value

An html document containing the full results for the target, comparators, indications and outcomes specified.

See Also

Other Reporting: [generatePresentation\(\)](#), [generatePresentationMultiple\(\)](#)

`generatePresentation` *generatePresentation*

Description

Generates a presentation from a Strategus result

Usage

```
generatePresentation(
  server,
  username,
  password,
  dbms,
  resultsSchema = NULL,
  dbDetails = NULL,
  lead = "add name",
```

```

team = "name 1 name 2",
trigger = "A signal was found in spontaneous reports",
safetyQuestion = "",
objective = "",
topline1 =
  "Very brief executive summary. You can copy-paste language from the conclusion.",
topline2 =
  "If an estimation was requested but not feasible, this should be mentioned here.",
topline3 =
  "If no estimation study was requested, this high-level summary might be skipped.",
date = as.character(Sys.Date()),
targetId = 1,
outcomeIds = 3,
cohortNames = c("target name", "outcome name"),
cohortIds = c(1, 3),
covariateIds = NULL,
details = list(studyPeriod = "All Time", restrictions = "Age - None"),
evaluationText = "",
includeCI = TRUE,
includeCharacterization = TRUE,
includeCM = TRUE,
includeSCCS = TRUE,
includePLP = TRUE,
outputLocation,
outputName = paste0("presentation_", gsub(":", "_", gsub(" ", "_",
  as.character(date()))), ".html"),
intermediateDir = tempdir()
)

```

Arguments

server	The server containing the result database
username	The username for an account that can access the result database
password	The password for an account that can access the result database
dbms	The dbms used to access the result database
resultsSchema	The result database schema
dbDetails	(Optional) a data.frame with the columns:
lead	The name of the presenter
team	A vector or all the team members
trigger	What triggered the request
safetyQuestion	What is the general safety question
objective	What is the request/objective of the work.
topline1	add a very brief executive summary for the topline slide
topline2	add estimation summary here for the topline slide
topline3	add any other statement summary here for the topline slide

date	The date of the presentation
targetId	The cohort definition id for the target cohort
outcomeIds	The cohort definition id for the outcome
cohortNames	Friendly names for any cohort used in the study
cohortIds	The corresponding Ids for the cohortNames
covariateIds	A vector of covariateIds to include in the characterization
details	a list with the studyPeriod and restrictions
evaluationText	a list of bullet points for the evaluation
includeCI	Whether to include the cohort incidence slides
includeCharacterization	Whether to include the characterization slides
includeCM	Whether to include the cohort method slides
includeSCCS	Whether to include the self controlled case series slides
includePLP	Whether to include the patient level prediction slides
outputLocation	The file location and name to save the protocol
outputName	The name of the html protocol that is created
intermediateDir	The work directory for quarto

Details

Specify the connection details to the result database and the schema name to generate a presentation.

Value

An named R list with the elements 'standard' and 'source'

See Also

Other Reporting: [generateFullReport\(\)](#), [generatePresentationMultiple\(\)](#)

generatePresentationMultiple
generatePresentationMultiple

Description

Generates a presentation from a Strategus result

Usage

```

generatePresentationMultiple(
  server,
  username,
  password,
  dbms,
  resultsSchema = NULL,
  targetId = 1,
  targetName = "target cohort",
  cmSubsetId = 2,
  sccsSubsetId = NULL,
  indicationName = NULL,
  outcomeIds = 3,
  outcomeNames = "outcome cohort",
  comparatorIds = c(2, 4),
  comparatorNames = c("comparator cohort 1", "comparator cohort 2"),
  covariateIds = NULL,
  details = list(studyPeriod = "All Time", restrictions = "Age - None"),
  title = "ASSURE 001 ...",
  lead = "add name",
  date = Sys.Date(),
  backgroundText = "",
  evaluationText = "",
  outputLocation,
  outputName = paste0("presentation_", gsub(":", "_", gsub(" ", "_",
    as.character(date()))), ".html"),
  intermediateDir = tempdir()
)

```

Arguments

server	The server containing the result database
username	The username for an account that can access the result database
password	The password for an account that can access the result database
dbms	The dbms used to access the result database
resultsSchema	The result database schema
targetId	The cohort definition id for the target cohort
targetName	A friendly name for the target cohort
cmSubsetId	Optional a subset ID for the cohort method/prediction results
sccsSubsetId	Optional a subset ID for the SCCS and characterization results
indicationName	A name for the indication if used or NULL
outcomeIds	The cohort definition id for the outcome
outcomeNames	Friendly names for the outcomes
comparatorIds	The cohort method comparator cohort id

comparatorNames	Friendly names for the comparators
covariateIds	A vector of covariateIds to include in the characterization
details	a list with the studyPeriod and restrictions
title	A title for the presentation
lead	The name of the presenter
date	The date of the presentation
backgroundText	a character with any background text
evaluationText	a list of bullet points for the evaluation
outputLocation	The file location and name to save the protocol
outputName	The name of the html protocol that is created
intermediateDir	The work directory for quarto

Details

Specify the connection details to the result database and the schema name to generate a presentation.

Value

An named R list with the elements 'standard' and 'source'

See Also

Other Reporting: [generateFullReport\(\)](#), [generatePresentation\(\)](#)

getBinaryCaseSeries	<i>A function to extract case series characterization results</i>
---------------------	---

Description

A function to extract case series characterization results

Usage

```
getBinaryCaseSeries(
  connectionHandler,
  schema,
  cTablePrefix = "c_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetId = NULL,
  outcomeId = NULL
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
cTablePrefix	The prefix used for the characterization results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default 'database_meta_data')
targetId	An integer corresponding to the target cohort ID
outcomeId	An integer corresponding to the outcome cohort ID

Details

Specify the connectionHandler, the schema and the target/outcome cohort IDs

Value

A data.frame with the characterization case series results

See Also

Other Characterization: [getBinaryRiskFactors\(\)](#), [getCaseBinaryFeatures\(\)](#), [getCaseContinuousFeatures\(\)](#), [getCaseCounts\(\)](#), [getCharacterizationDemographics\(\)](#), [getContinuousCaseSeries\(\)](#), [getContinuousRiskFactors\(\)](#), [getDechallengeRechallenge\(\)](#), [getIncidenceRates\(\)](#), [getTargetBinaryFeatures\(\)](#), [getTargetContinuousFeatures\(\)](#), [getTargetCounts\(\)](#), [getTimeToEvent\(\)](#), [plotAgeDistributions\(\)](#), [plotSexDistributions\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

cs <- getBinaryCaseSeries(
  connectionHandler = connectionHandler,
  schema = 'main',
  targetId = 1,
  outcomeId = 3
)
```

getBinaryRiskFactors *A function to extract non-case and case binary characterization results*

Description

A function to extract non-case and case binary characterization results

Usage

```
getBinaryRiskFactors(
  connectionHandler,
  schema,
  cTablePrefix = "c_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetId = NULL,
  outcomeId = NULL,
  analysisIds = c(3)
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
cTablePrefix	The prefix used for the characterization results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default 'database_meta_data')
targetId	An integer corresponding to the target cohort ID
outcomeId	An integer corresponding to the outcome cohort ID
analysisIds	The feature extraction analysis ID of interest (e.g., 201 is condition)

Details

Specify the connectionHandler, the schema and the target/outcome cohort IDs

Value

A data.frame with the characterization results for the cases and non-cases

See Also

Other Characterization: [getBinaryCaseSeries\(\)](#), [getCaseBinaryFeatures\(\)](#), [getCaseContinuousFeatures\(\)](#), [getCaseCounts\(\)](#), [getCharacterizationDemographics\(\)](#), [getContinuousCaseSeries\(\)](#), [getContinuousRiskFactors\(\)](#), [getDechallengeRechallenge\(\)](#), [getIncidenceRates\(\)](#), [getTargetBinaryFeatures\(\)](#), [getTargetContinuousFeatures\(\)](#), [getTargetCounts\(\)](#), [getTimeToEvent\(\)](#), [plotAgeDistributions\(\)](#), [plotSexDistributions\(\)](#)

Examples

```

conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

rf <- getBinaryRiskFactors(
  connectionHandler = connectionHandler,
  schema = 'main',
  targetId = 1,
  outcomeId = 3
)

```

`getCaseBinaryFeatures` *Extract aggregate statistics of binary feature analysis IDs of interest for cases*

Description

This function extracts the feature extraction results for cases corresponding to specified target and outcome cohorts.

Usage

```

getCaseBinaryFeatures(
  connectionHandler,
  schema,
  cTablePrefix = "c_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetIds = NULL,
  outcomeIds = NULL,
  analysisIds = c(3)
)

```

Arguments

<code>connectionHandler</code>	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
<code>schema</code>	The result database schema (e.g., 'main' for sqlite)
<code>cTablePrefix</code>	The prefix used for the characterization results tables
<code>cgTablePrefix</code>	The prefix used for the cohort generator results tables
<code>databaseTable</code>	The name of the table with the database details (default 'database_meta_data')
<code>targetIds</code>	A vector of integers corresponding to the target cohort IDs
<code>outcomeIds</code>	A vector of integers corresponding to the outcome cohort IDs
<code>analysisIds</code>	The feature extraction analysis ID of interest (e.g., 201 is condition)

Details

Specify the `connectionHandler`, the schema and the target/outcome cohort IDs

Value

Returns a `data.frame` with the columns:

- `databaseName` the name of the database
- `targetName` the target cohort name
- `targetId` the target cohort unique identifier
- `outcomeName` the outcome name
- `outcomeId` the outcome unique identifier
- `minPriorObservation` the minimum required observation days prior to index for an entry
- `outcomeWashoutDays` patients with the outcome occurring within this number of days prior to index are excluded (NA means no exclusion)
- `riskWindowStart` the number of days offset the start anchor that is the start of the time-at-risk
- `startAnchor` the start anchor is either the target cohort start or cohort end date
- `riskWindowEnd` the number of days offset the end anchor that is the end of the time-at-risk
- `endAnchor` the end anchor is either the target cohort start or cohort end date
- `covariateId` the id of the feature
- `covariateName` the name of the feature
- `sumValue` the number of cases who have the feature value of 1
- `averageValue` the mean feature value

See Also

Other Characterization: [getBinaryCaseSeries\(\)](#), [getBinaryRiskFactors\(\)](#), [getCaseContinuousFeatures\(\)](#), [getCaseCounts\(\)](#), [getCharacterizationDemographics\(\)](#), [getContinuousCaseSeries\(\)](#), [getContinuousRiskFactors\(\)](#), [getDechallengeRechallenge\(\)](#), [getIncidenceRates\(\)](#), [getTargetBinaryFeatures\(\)](#), [getTargetContinuousFeatures\(\)](#), [getTargetCounts\(\)](#), [getTimeToEvent\(\)](#), [plotAgeDistributions\(\)](#), [plotSexDistributions\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

cbf <- getCaseBinaryFeatures(
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

getCaseContinuousFeatures

Extract aggregate statistics of continuous feature analysis IDs of interest for targets

Description

This function extracts the continuous feature extraction results for cases corresponding to specified target and outcome cohorts.

Usage

```
getCaseContinuousFeatures(
  connectionHandler,
  schema,
  cTablePrefix = "c_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetIds = NULL,
  outcomeIds = NULL,
  analysisIds = NULL
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
cTablePrefix	The prefix used for the characterization results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default 'database_meta_data')
targetIds	A vector of integers corresponding to the target cohort IDs
outcomeIds	A vector of integers corresponding to the outcome cohort IDs
analysisIds	The feature extraction analysis ID of interest (e.g., 201 is condition)

Details

Specify the connectionHandler, the schema and the target/outcome cohort IDs

Value

Returns a data.frame with the columns:

- databaseName the name of the database

- `targetName` the target cohort name
- `targetId` the target cohort unique identifier
- `outcomeName` the outcome name
- `outcomeId` the outcome unique identifier
- `minPriorObservation` the minimum required observation days prior to index for an entry
- `outcomeWashoutDays` patients with the outcome occurring within this number of days prior to index are excluded (NA means no exclusion)
- `riskWindowStart` the time at risk start point
- `riskWindowEnd` the time at risk end point
- `startAnchor` the time at risk start point offset
- `endAnchor` the time at risk end point offset
- `covariateName` the name of the feature
- `covariateId` the id of the feature
- `countValue` the number of cases who have the feature
- `minValue` the minimum value observed for the feature
- `maxValue` the maximum value observed for the feature
- `averageValue` the mean value observed for the feature
- `standardDeviation` the standard deviation of the value observed for the feature
- `medianValue` the median value observed for the feature
- `p10Value` the 10th percentile of the value observed for the feature
- `p25Value` the 25th percentile of the value observed for the feature
- `p75Value` the 75th percentile of the value observed for the feature
- `p90Value` the 90th percentile of the value observed for the feature

See Also

Other Characterization: [getBinaryCaseSeries\(\)](#), [getBinaryRiskFactors\(\)](#), [getCaseBinaryFeatures\(\)](#), [getCaseCounts\(\)](#), [getCharacterizationDemographics\(\)](#), [getContinuousCaseSeries\(\)](#), [getContinuousRiskFactors\(\)](#), [getDechallengeRechallenge\(\)](#), [getIncidenceRates\(\)](#), [getTargetBinaryFeatures\(\)](#), [getTargetContinuousFeatures\(\)](#), [getTargetCounts\(\)](#), [getTimeToEvent\(\)](#), [plotAgeDistributions\(\)](#), [plotSexDistributions\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

ccf <- getCaseContinuousFeatures(
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

getCaseCounts	<i>Extract the outcome cohort counts result</i>
---------------	---

Description

This function extracts outcome cohort counts across databases in the results for specified target and outcome cohorts.

Usage

```
getCaseCounts(
  connectionHandler,
  schema,
  cTablePrefix = "c_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetIds = NULL,
  outcomeIds = NULL
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
cTablePrefix	The prefix used for the characterization results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default 'database_meta_data')
targetIds	A vector of integers corresponding to the target cohort IDs
outcomeIds	A vector of integers corresponding to the outcome cohort IDs

Details

Specify the connectionHandler, the schema and the target/outcome cohort IDs

Value

Returns a data.frame with the columns:

- databaseName the name of the database
- targetName the target cohort name
- targetId the target cohort unique identifier
- outcomeName the outcome name
- outcomeId the outcome unique identifier

- rowCount the number of entries in the cohort
- personCount the number of people in the cohort
- minPriorObservation the minimum required observation days prior to index for an entry
- outcomeWashoutDays patients with the outcome occurring within this number of days prior to index are excluded (NA means no exclusion)
- riskWindowStart the number of days offset the start anchor that is the start of the time-at-risk
- startAnchor the start anchor is either the target cohort start or cohort end date
- riskWindowEnd the number of days offset the end anchor that is the end of the time-at-risk
- endAnchor the end anchor is either the target cohort start or cohort end date

See Also

Other Characterization: [getBinaryCaseSeries\(\)](#), [getBinaryRiskFactors\(\)](#), [getCaseBinaryFeatures\(\)](#), [getCaseContinuousFeatures\(\)](#), [getCharacterizationDemographics\(\)](#), [getContinuousCaseSeries\(\)](#), [getContinuousRiskFactors\(\)](#), [getDechallengeRechallenge\(\)](#), [getIncidenceRates\(\)](#), [getTargetBinaryFeatures\(\)](#), [getTargetContinuousFeatures\(\)](#), [getTargetCounts\(\)](#), [getTimeToEvent\(\)](#), [plotAgeDistributions\(\)](#), [plotSexDistributions\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

cc <- getCaseCounts(
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

getCharacterizationDemographics

Extract the binary age groups for the cases and targets

Description

This function extracts the age group feature extraction results for cases and targets corresponding to specified target and outcome cohorts.

Usage

```
getCharacterizationDemographics(
  connectionHandler,
  schema,
  cTablePrefix = "c_",
  cgTablePrefix = "cg_",
```

```

    databaseTable = "database_meta_data",
    targetId = NULL,
    outcomeId = NULL,
    type = "age"
)

```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
cTablePrefix	The prefix used for the characterization results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default 'database_meta_data')
targetId	An integer corresponding to the target cohort ID
outcomeId	An integer corresponding to the outcome cohort ID
type	A character of 'age' or 'sex'

Details

Specify the connectionHandler, the schema and the target/outcome cohort IDs

Value

Returns a data.frame with the columns:

- databaseName the name of the database
- targetName the target cohort name
- targetId the target cohort unique identifier
- outcomeName the outcome name
- outcomeId the outcome unique identifier
- minPriorObservation the minimum required observation days prior to index for an entry
- outcomeWashoutDays patients with the outcome occurring within this number of days prior to index are excluded (NA means no exclusion)
- riskWindowStart the number of days offset the start anchor that is the start of the time-at-risk
- startAnchor the start anchor is either the target cohort start or cohort end date
- riskWindowEnd the number of days offset the end anchor that is the end of the time-at-risk
- endAnchor the end anchor is either the target cohort start or cohort end date
- covariateName the name of the feature
- sumValue the number of cases who have the feature value of 1
- averageValue the mean feature value

See Also

Other Characterization: [getBinaryCaseSeries\(\)](#), [getBinaryRiskFactors\(\)](#), [getCaseBinaryFeatures\(\)](#), [getCaseContinuousFeatures\(\)](#), [getCaseCounts\(\)](#), [getContinuousCaseSeries\(\)](#), [getContinuousRiskFactors\(\)](#), [getDechallengeRechallenge\(\)](#), [getIncidenceRates\(\)](#), [getTargetBinaryFeatures\(\)](#), [getTargetContinuousFeatures\(\)](#), [getTargetCounts\(\)](#), [getTimeToEvent\(\)](#), [plotAgeDistributions\(\)](#), [plotSexDistributions\(\)](#)

Examples

```
# example code

conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

ageData <- getCharacterizationDemographics(
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

`getCmDiagnosticsData` *Extract the cohort method diagnostic results*

Description

This function extracts the cohort method diagnostics that examine whether the analyses were sufficiently powered and checks for different types of bias.

Usage

```
getCmDiagnosticsData(
  connectionHandler,
  schema,
  cmTablePrefix = "cm_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetIds = NULL,
  outcomeIds = NULL,
  comparatorIds = NULL
)
```

Arguments

<code>connectionHandler</code>	A connection handler that connects to the database and extracts sql queries. Create a connection handler via <code>ResultModelManager::ConnectionHandler\$new()</code> .
<code>schema</code>	The result database schema (e.g., 'main' for sqlite)

cmTablePrefix	The prefix used for the cohort method results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default 'database_meta_data')
targetIds	A vector of integers corresponding to the target cohort IDs
outcomeIds	A vector of integers corresponding to the outcome cohort IDs
comparatorIds	A vector of integers corresponding to the comparator cohort IDs

Details

Specify the connectionHandler, the schema and the target/comparator/outcome cohort IDs

Value

Returns a data.frame with the columns:

- databaseName the name of the database
- analysisId the analysis unique identifier
- description a description of the analysis
- targetName the target cohort name
- targetId the target cohort unique identifier
- comparatorName the comparator cohort name
- comparatorId the comparator cohort unique identifier
- outcomeName the outcome name
- outcomeId the outcome cohort unique identifier
- maxSdm max allowed standardized difference of means when comparing the target to the comparator after PS adjustment for the ballance diagnostic diagnostic to pass.
- sharedMaxSdm max allowed standardized difference of means when comparing the target to the comparator after PS adjustment for the ballance diagnostic diagnostic to pass.
- equipoise the bounds on the preference score to determine whether a subject is in equipoise.
- mdrr the maximum passable minimum detectable relative risk (mdrr) value. If the mdrr is greater than this the diagnostics will fail.
- attritionFraction (deprecated) the minmum attrition before the diagnostics fails.
- ease The expected absolute systematic error (ease) measures residual bias.
- balanceDiagnostic whether the balance diagnostic passed or failed.
- sharedBalanceDiagnostic whether the shared balance diagnostic passed or failed.
- equipoiseDiagnostic whether the equipoise diagnostic passed or failed.
- mdrrDiagnostic whether the mdrr (power) diagnostic passed or failed.
- attritionDiagnostic (deprecated) whether the attrition diagnostic passed or failed.
- easeDiagnostic whether the ease diagnostic passed or failed.
- unblindForEvidenceSynthesis whether the results can be unblinded for the meta analysis.
- unblind whether the results can be unblinded.
- summaryValue summary of diagnostics results. FAIL, PASS or number of warnings.

See Also

Other Estimation: `getCMEstimation()`, `getCmMetaEstimation()`, `getSccsDiagnosticsData()`, `getSccsEstimation()`, `getSccsMetaEstimation()`, `plotCmEstimates()`, `plotSccsEstimates()`

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

cmDiag <- getCmDiagnosticsData(
  connectionHandler = connectionHandler,
  schema = 'main',
  targetIds = 1,
  outcomeIds = 3
)
```

getCMEstimation	<i>Extract the cohort method results</i>
-----------------	--

Description

This function extracts the single database cohort method estimates for results that can be unblinded and have a calibrated RR

Usage

```
getCMEstimation(
  connectionHandler,
  schema,
  cmTablePrefix = "cm_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetIds = NULL,
  outcomeIds = NULL,
  comparatorIds = NULL
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via <code>'ResultModelManager::ConnectionHandler\$new()'</code> .
schema	The result database schema (e.g., 'main' for sqlite)
cmTablePrefix	The prefix used for the cohort method results tables
cgTablePrefix	The prefix used for the cohort generator results tables

databaseTable	The name of the table with the database details (default 'database_meta_data')
targetIds	A vector of integers corresponding to the target cohort IDs
outcomeIds	A vector of integers corresponding to the outcome cohort IDs
comparatorIds	A vector of integers corresponding to the comparator cohort IDs

Details

Specify the connectionHandler, the schema and the target/comparator/outcome cohort IDs

Value

Returns a data.frame with the columns:

- databaseName the name of the database
- analysisId the analysis design unique identifier
- description the analysis design description
- targetName the target cohort name
- targetId the target cohort unique identifier
- comparatorName the comparator cohort name
- comparatorId the comparator cohort unique identifier
- outcomeName the outcome name
- outcomeId the outcome unique identifier
- calibratedRr the calibrated relative risk
- calibratedRrCi95Lb the calibrated relative risk 95 percent confidence interval lower bound
- calibratedRrCi95Ub the calibrated relative risk 95 percent confidence interval upper bound
- calibratedP the two sided calibrated p value
- calibratedOneSidedP the one sided calibrated p value
- calibratedLogRr the calibrated relative risk logged
- calibratedSeLogRr the standard error of the calibrated relative risk logged
- targetSubjects the number of people in the target cohort
- comparatorSubjects the number of people in the comparator cohort
- targetDays the total number of days at risk across the target cohort people
- comparatorDays the total number of days at risk across the comparator cohort people
- targetOutcomes the total number of outcomes occurring during the time at risk for the target cohort people
- comparatorOutcomes the total number of outcomes occurring during the time at risk for the comparator cohort people
- targetEstimator ...

See Also

Other Estimation: [getCmDiagnosticsData\(\)](#), [getCmMetaEstimation\(\)](#), [getSccsDiagnosticsData\(\)](#), [getSccsEstimation\(\)](#), [getSccsMetaEstimation\(\)](#), [plotCmEstimates\(\)](#), [plotSccsEstimates\(\)](#)

Examples

```

conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

cmEst <- getCMEstimation(
  connectionHandler = connectionHandler,
  schema = 'main',
  targetIds = 1,
  outcomeIds = 3
)

```

getCmMetaEstimation	<i>Extract the cohort method meta analysis results</i>
---------------------	--

Description

This function extracts any meta analysis estimation results for cohort method.

Usage

```

getCmMetaEstimation(
  connectionHandler,
  schema,
  cmTablePrefix = "cm_",
  cgTablePrefix = "cg_",
  esTablePrefix = "es_",
  targetIds = NULL,
  outcomeIds = NULL,
  comparatorIds = NULL
)

```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
cmTablePrefix	The prefix used for the cohort method results tables
cgTablePrefix	The prefix used for the cohort generator results tables
esTablePrefix	The prefix used for the evidence synthesis results tables
targetIds	A vector of integers corresponding to the target cohort IDs
outcomeIds	A vector of integers corresponding to the outcome cohort IDs
comparatorIds	A vector of integers corresponding to the comparator cohort IDs

Details

Specify the connectionHandler, the schema and the target/comparator/outcome cohort IDs

Value

Returns a data.frame with the columns:

- databaseName the name of the database
- analysisId the analysis unique identifier
- description a description of the analysis
- targetName the target cohort name
- targetId the target cohort unique identifier
- comparatorName the comparator cohort name
- comparatorId the comparator cohort unique identifier
- outcomeName the outcome name
- outcomeId the outcome cohort unique identifier
- calibratedRr the calibrated relative risk
- calibratedRrCi95Lb the calibrated relative risk 95 percent confidence interval lower bound
- calibratedRrCi95Ub the calibrated relative risk 95 percent confidence interval upper bound
- calibratedP the two sided calibrated p value
- calibratedOneSidedP the one sided calibrated p value
- calibratedLogRr the calibrated relative risk logged
- calibratedSeLogRr the standard error of the calibrated relative risk logged
- targetSubjects the number of people in the target cohort across included database
- comparatorSubjects the number of people in the comparator cohort across included database
- targetDays the total number of days at risk across the target cohort people across included database
- comparatorDays the total number of days at risk across the comparator cohort people across included database
- targetOutcomes the total number of outcomes occurring during the time at risk for the target cohort people across included database
- comparatorOutcomes the total number of outcomes occurring during the time at risk for the comparator cohort people across included database
- nDatabases the number of databases included

See Also

Other Estimation: [getCMEstimation\(\)](#), [getCmDiagnosticsData\(\)](#), [getSccsDiagnosticsData\(\)](#), [getSccsEstimation\(\)](#), [getSccsMetaEstimation\(\)](#), [plotCmEstimates\(\)](#), [plotSccsEstimates\(\)](#)

Examples

```

conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

cmMeta <- getCmMetaEstimation(
  connectionHandler = connectionHandler,
  schema = 'main',
  targetIds = 1,
  outcomeIds = 3
)

```

getCohortDefinitions *Extract the cohort definition details*

Description

This function extracts all cohort definitions for the targets of interest.

Usage

```

getCohortDefinitions(
  connectionHandler,
  schema,
  cgTablePrefix = "cg_",
  targetIds = NULL
)

```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via ‘ResultModelManager::ConnectionHandler\$new()’.
schema	The result database schema (e.g., ‘main’ for sqlite)
cgTablePrefix	The prefix used for the cohort generator results tables
targetIds	A vector of integers corresponding to the target cohort IDs

Details

Specify the connectionHandler, the schema and the target cohort IDs

Value

Returns a data.frame with the cohort details

See Also

Other Cohorts: [getCohortSubsetDefinitions\(\)](#), [processCohorts\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

cohortDef <- getCohortDefinitions(
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

```
getCohortSubsetDefinitions
```

Extract the cohort subset definition details

Description

This function extracts all cohort subset definitions for the subsets of interest.

Usage

```
getCohortSubsetDefinitions(
  connectionHandler,
  schema,
  cgTablePrefix = "cg_",
  subsetIds = NULL
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via ‘ResultModelManager::ConnectionHandler\$new()’.
schema	The result database schema (e.g., ‘main’ for sqlite)
cgTablePrefix	The prefix used for the cohort generator results tables
subsetIds	A vector of subset cohort ids or NULL

Details

Specify the connectionHandler, the schema and the subset IDs

Value

Returns a data.frame with the cohort subset details

See Also

Other Cohorts: [getCohortDefinitions\(\)](#), [processCohorts\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

subsetDef <- getCohortSubsetDefinitions(
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

getContinuousCaseSeries

A function to extract case series continuous feature characterization results

Description

A function to extract case series continuous feature characterization results

Usage

```
getContinuousCaseSeries(
  connectionHandler,
  schema,
  cTablePrefix = "c_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetId = NULL,
  outcomeId = NULL
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
cTablePrefix	The prefix used for the characterization results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default 'database_meta_data')
targetId	An integer corresponding to the target cohort ID
outcomeId	An integer corresponding to the outcome cohort ID

Details

Specify the connectionHandler, the schema and the target/outcome cohort IDs

Value

A data.frame with the characterization case series results

See Also

Other Characterization: [getBinaryCaseSeries\(\)](#), [getBinaryRiskFactors\(\)](#), [getCaseBinaryFeatures\(\)](#), [getCaseContinuousFeatures\(\)](#), [getCaseCounts\(\)](#), [getCharacterizationDemographics\(\)](#), [getContinuousRiskFactors\(\)](#), [getDechallengeRechallenge\(\)](#), [getIncidenceRates\(\)](#), [getTargetBinaryFeatures\(\)](#), [getTargetContinuousFeatures\(\)](#), [getTargetCounts\(\)](#), [getTimeToEvent\(\)](#), [plotAgeDistributions\(\)](#), [plotSexDistributions\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

cs <- getContinuousCaseSeries(
  connectionHandler = connectionHandler,
  schema = 'main',
  targetId = 1,
  outcomeId = 3
)
```

getContinuousRiskFactors

A function to extract non-case and case continuous characterization results

Description

A function to extract non-case and case continuous characterization results

Usage

```
getContinuousRiskFactors(
  connectionHandler,
  schema,
  cTablePrefix = "c_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetId = NULL,
  outcomeId = NULL,
  analysisIds = NULL
)
```

Arguments

<code>connectionHandler</code>	A connection handler that connects to the database and extracts sql queries. Create a connection handler via <code>'ResultModelManager::ConnectionHandler\$new()'</code> .
<code>schema</code>	The result database schema (e.g., 'main' for sqlite)
<code>cTablePrefix</code>	The prefix used for the characterization results tables
<code>cgTablePrefix</code>	The prefix used for the cohort generator results tables
<code>databaseTable</code>	The name of the table with the database details (default 'database_meta_data')
<code>targetId</code>	An integer corresponding to the target cohort ID
<code>outcomeId</code>	An integer corresponding to the outcome cohort ID
<code>analysisIds</code>	The feature extraction analysis ID of interest (e.g., 201 is condition)

Details

Specify the `connectionHandler`, the `schema` and the `target/outcome` cohort IDs

Value

A `data.frame` with the characterization results for the cases and non-cases

See Also

Other Characterization: [getBinaryCaseSeries\(\)](#), [getBinaryRiskFactors\(\)](#), [getCaseBinaryFeatures\(\)](#), [getCaseContinuousFeatures\(\)](#), [getCaseCounts\(\)](#), [getCharacterizationDemographics\(\)](#), [getContinuousCaseSeries\(\)](#), [getDechallengeRechallenge\(\)](#), [getIncidenceRates\(\)](#), [getTargetBinaryFeatures\(\)](#), [getTargetContinuousFeatures\(\)](#), [getTargetCounts\(\)](#), [getTimeToEvent\(\)](#), [plotAgeDistributions\(\)](#), [plotSexDistributions\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

rf <- getContinuousRiskFactors(
  connectionHandler = connectionHandler,
  schema = 'main',
  targetId = 1,
  outcomeId = 3
)
```

getDechallengeRechallenge

Extract the dechallenge rechallenge results

Description

This function extracts all dechallenge rechallenge results across databases for specified target and outcome cohorts.

Usage

```
getDechallengeRechallenge(
  connectionHandler,
  schema,
  cTablePrefix = "c_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetIds = NULL,
  outcomeIds = NULL
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
cTablePrefix	The prefix used for the characterization results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default 'database_meta_data')
targetIds	A vector of integers corresponding to the target cohort IDs
outcomeIds	A vector of integers corresponding to the outcome cohort IDs

Details

Specify the connectionHandler, the schema and the target/outcome cohort IDs

Value

Returns a data.frame with the columns:

- databaseName the name of the database
- targetName the target cohort name
- targetId the target cohort unique identifier
- outcomeName the outcome name

- `outcomeId` the outcome unique identifier
- `dechallengeStopInterval` An integer specifying the how much time to add to the `cohort_end` when determining whether the event starts during cohort and ends after
- `dechallengeEvaluationWindow` A period of time evaluated for outcome recurrence after discontinuation of exposure, among patients with challenge outcomes
- `numExposureEras` Distinct number of exposure events (i.e. drug eras) in a given target cohort
- `numPersonsExposed` Distinct number of people exposed in target cohort. A person must have at least 1 day exposure to be included
- `numCases` Distinct number of persons in outcome cohort. A person must have at least 1 day of observation time to be included
- `dechallengeAttempt` Distinct count of people with observable time after discontinuation of the exposure era during which the challenge outcome occurred
- `dechallengeFail` Among people with challenge outcomes, the distinct number of people with outcomes during `dechallengeEvaluationWindow`
- `dechallengeSuccess` Among people with challenge outcomes, the distinct number of people without outcomes during the `dechallengeEvaluationWindow`
- `rechallengeAttempt` Number of people with a new exposure era after the occurrence of an outcome during a prior exposure era
- `rechallengeFail` Number of people with a new exposure era during which an outcome occurred, after the occurrence of an outcome during a prior exposure era
- `rechallengeSuccess` Number of people with a new exposure era during which an outcome did not occur, after the occurrence of an outcome during a prior exposure era
- `pctDechallengeAttempt` Percent of people with observable time after discontinuation of the exposure era during which the challenge outcome occurred
- `pctDechallengeFail` Among people with challenge outcomes, the percent of people without outcomes during the `dechallengeEvaluationWindow`
- `pctDechallengeSuccess` Among people with challenge outcomes, the percent of people with outcomes during `dechallengeEvaluationWindow`
- `pctRechallengeAttempt` Percent of people with a new exposure era after the occurrence of an outcome during a prior exposure era
- `pctRechallengeFail` Percent of people with a new exposure era during which an outcome did not occur, after the occurrence of an outcome during a prior exposure era
- `pctRechallengeSuccess` Percent of people with a new exposure era during which an outcome occurred, after the occurrence of an outcome during a prior exposure era

See Also

Other Characterization: [getBinaryCaseSeries\(\)](#), [getBinaryRiskFactors\(\)](#), [getCaseBinaryFeatures\(\)](#), [getCaseContinuousFeatures\(\)](#), [getCaseCounts\(\)](#), [getCharacterizationDemographics\(\)](#), [getContinuousCaseSeries\(\)](#), [getContinuousRiskFactors\(\)](#), [getIncidenceRates\(\)](#), [getTargetBinaryFeatures\(\)](#), [getTargetContinuousFeatures\(\)](#), [getTargetCounts\(\)](#), [getTimeToEvent\(\)](#), [plotAgeDistributions\(\)](#), [plotSexDistributions\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

dcrc <- getDechallengeRechallenge(
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

```
getExampleConnectionDetails
```

create a connection detail for an example OHDSI results database

Description

This returns an object of class ‘ConnectionDetails’ that lets you connect via ‘DatabaseConnector::connect()’ to the example result database.

Usage

```
getExampleConnectionDetails(exdir = tempdir())
```

Arguments

`exdir` a directory to unzip the example result data into. Default is `tempdir()`.

Details

Finds the location of the example result database in the package and calls ‘DatabaseConnector::createConnectionDetails’ to create a ‘ConnectionDetails’ object for connecting to the database.

Value

An object of class ‘ConnectionDetails’ with the details to connect to the example OHDSI result database

See Also

Other helper: [addTarColumn\(\)](#), [formatBinaryCovariateName\(\)](#), [kableDark\(\)](#), [printReactable\(\)](#), [removeSpaces\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)
```

getIncidenceRates	<i>Extract the cohort incidence result</i>
-------------------	--

Description

This function extracts all incidence rates across databases in the results for specified target and outcome cohorts.

Usage

```
getIncidenceRates(
  connectionHandler,
  schema,
  ciTablePrefix = "ci_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetIds = NULL,
  outcomeIds = NULL
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
ciTablePrefix	The prefix used for the cohort incidence results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default 'database_meta_data')
targetIds	A vector of integers corresponding to the target cohort IDs
outcomeIds	A vector of integers corresponding to the outcome cohort IDs

Details

Specify the connectionHandler, the schema and the target/outcome cohort IDs

Value

Returns a data.frame with the columns:

- databaseName the name of the database
- targetName the target cohort name
- targetId the target cohort unique identifier
- outcomeName the outcome name
- outcomeId the outcome unique identifier

- `cleanWindow` clean window around outcome
- `subgroupName` name for the result subgroup
- `ageGroupName` name for the result age group
- `genderName` name for the result gender group
- `startYear` name for the result start year
- `tarStartWith` time at risk start reference
- `tarStartOffset` time at risk start offset from reference
- `tarEndWith` time at risk end reference
- `tarEndOffset` time at risk end offset from reference
- `personsAtRiskPe` persons at risk per event
- `personsAtRisk` persons at risk
- `personDaysPe` person days per event
- `personDays` person days
- `personOutcomesPe` person outcome per event
- `personOutcomes` persons outcome
- `outcomesPe` number of outcome per event
- `outcomes` number of outcome
- `incidenceProportionP100p` incidence proportion per 100 persons
- `incidenceRateP100py` incidence rate per 100 person years

See Also

Other Characterization: [getBinaryCaseSeries\(\)](#), [getBinaryRiskFactors\(\)](#), [getCaseBinaryFeatures\(\)](#), [getCaseContinuousFeatures\(\)](#), [getCaseCounts\(\)](#), [getCharacterizationDemographics\(\)](#), [getContinuousCaseSeries\(\)](#), [getContinuousRiskFactors\(\)](#), [getDechallengeRechallenge\(\)](#), [getTargetBinaryFeatures\(\)](#), [getTargetContinuousFeatures\(\)](#), [getTargetCounts\(\)](#), [getTimeToEvent\(\)](#), [plotAgeDistributions\(\)](#), [plotSexDistributions\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

ir <- getIncidenceRates(
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

getPredictionCohorts *Extract a complete set of cohorts used in the prediction results*

Description

This function extracts the target and outcome cohorts used to develop any model in the results

Usage

```
getPredictionCohorts(
  connectionHandler,
  schema,
  plpTablePrefix = "plp_",
  cgTablePrefix = "cg_"
)
```

Arguments

connectionHandler A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema The result database schema (e.g., 'main' for sqlite)
plpTablePrefix The prefix used for the patient level prediction results tables
cgTablePrefix The prefix used for the cohort generator results tables

Details

Specify the connectionHandler, the resultDatabaseSettings and any targetIds or outcomeIds to restrict models to

Value

Returns a data.frame with the columns:

- cohortId the cohort definition ID
- cohortName the name of the cohort
- type whether the cohort was used as a target or outcome cohort

See Also

Other Prediction: [getPredictionDiagnosticTable\(\)](#), [getPredictionDiagnostics\(\)](#), [getPredictionHyperParamSearch\(\)](#), [getPredictionIntercept\(\)](#), [getPredictionModelDesigns\(\)](#), [getPredictionPerformanceTable\(\)](#), [getPredictionPerformances\(\)](#), [getPredictionTopPredictors\(\)](#)

Examples

```

conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

predCohorts <- getPredictionCohorts(
  connectionHandler = connectionHandler,
  schema = 'main'
)

```

```
getPredictionDiagnostics
```

Extract the model design diagnostics for a specific development database

Description

This function extracts the PROBAST diagnostics

Usage

```

getPredictionDiagnostics(
  connectionHandler,
  schema,
  plpTablePrefix = "plp_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  databaseTablePrefix = "",
  modelDesignId = NULL,
  threshold1_2 = 0.9
)

```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
plpTablePrefix	The prefix used for the patient level prediction results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default 'database_meta_data')
databaseTablePrefix	The prefix for the database table either '' or 'plp_'
modelDesignId	The identifier for a model design to restrict results to
threshold1_2	A threshold for probast 1.2

Details

Specify the `connectionHandler`, the `resultDatabaseSettings` and (optionally) a `modelDesignId` and `threshold1_2` a threshold value to use for the PROBAST 1.2

Value

Returns a `data.frame` with the columns:

- `modelDesignId` the unique identifier for the model design
- `diagnosticId` the unique identifier for diagnostic result
- `developmentDatabaseName` the name for the database used to develop the model
- `developmentTargetName` the name for the development target population
- `developmentOutcomeName` the name for the development outcome
- `probast1_1` Were appropriate data sources used, e.g., cohort, RCT, or nested case-control study data?
- `probast1_2` Were all inclusions and exclusions of participants appropriate?
- `probast2_1` Were predictors defined and assessed in a similar way for all participants?
- `probast2_2` Were predictors assessments made without knowledge of outcome data?
- `probast2_3` All all predictors available at the time the model is intended to be used?
- `probast3_4` Was the outcome defined and determined in a similar way for all participants?
- `probast3_6` Was the time interval between predictor assessment and outcome determination appropriate?
- `probast4_1` Were there a reasonable number of participants with the outcome?

See Also

Other Prediction: [getPredictionCohorts\(\)](#), [getPredictionDiagnosticTable\(\)](#), [getPredictionHyperParamSearch\(\)](#), [getPredictionIntercept\(\)](#), [getPredictionModelDesigns\(\)](#), [getPredictionPerformanceTable\(\)](#), [getPredictionPerformances\(\)](#), [getPredictionTopPredictors\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

diag <- getPredictionDiagnostics(
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

```
getPredictionDiagnosticTable
```

Extract specific diagnostic table

Description

This function extracts the specified diagnostic table

Usage

```
getPredictionDiagnosticTable(  
  connectionHandler,  
  schema,  
  plpTablePrefix = "plp_",  
  table = "diagnostic_participants",  
  diagnosticId = NULL  
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
plpTablePrefix	The prefix used for the patient level prediction results tables
table	The table to extract
diagnosticId	(optional) restrict to the input diagnosticId

Details

Specify the connectionHandler, the resultDatabaseSettings, the table of interest and (optionally) a diagnosticId to filter to

Value

Returns a data.frame with the specified table

See Also

Other Prediction: [getPredictionCohorts\(\)](#), [getPredictionDiagnostics\(\)](#), [getPredictionHyperParamSearch\(\)](#), [getPredictionIntercept\(\)](#), [getPredictionModelDesigns\(\)](#), [getPredictionPerformanceTable\(\)](#), [getPredictionPerformances\(\)](#), [getPredictionTopPredictors\(\)](#)

Examples

```

conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

diagPred <- getPredictionDiagnosticTable(
  connectionHandler = connectionHandler,
  schema = 'main',
  table = 'diagnostic_predictors'
)

```

```

getPredictionHyperParamSearch
      Extract hyper parameters details

```

Description

This function extracts the hyper parameters details

Usage

```

getPredictionHyperParamSearch(
  connectionHandler,
  schema,
  plpTablePrefix = "plp_",
  modelDesignId = NULL,
  databaseId = NULL
)

```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
plpTablePrefix	The prefix used for the patient level prediction results tables
modelDesignId	The identifier for a model design to restrict to
databaseId	The identifier for the development database to restrict to

Details

Specify the connectionHandler, the resultDatabaseSettings, the modelDesignId and the databaseId

Value

Returns a data.frame with the columns:

- metric the hyperparameter optimization metric
- fold the fold in cross validation
- value the metric value for the fold with the specified hyperparameter combination

plus columns for all the hyperparameters and their values

See Also

Other Prediction: [getPredictionCohorts\(\)](#), [getPredictionDiagnosticTable\(\)](#), [getPredictionDiagnostics\(\)](#), [getPredictionIntercept\(\)](#), [getPredictionModelDesigns\(\)](#), [getPredictionPerformanceTable\(\)](#), [getPredictionPerformances\(\)](#), [getPredictionTopPredictors\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

hyperParams <- getPredictionHyperParamSearch(
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

getPredictionIntercept

Extract model interception (for logistic regression)

Description

This function extracts the interception value

Usage

```
getPredictionIntercept(
  connectionHandler,
  schema,
  plpTablePrefix = "plp_",
  modelDesignId = NULL,
  databaseId = NULL
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
plpTablePrefix	The prefix used for the patient level prediction results tables
modelDesignId	The identifier for a model design to restrict to
databaseId	The identifier for the development database to restrict to

Details

Specify the connectionHandler, the resultDatabaseSettings, the modelDesignId and the databaseId

Value

Returns a single value corresponding to the model intercept or NULL if not a logistic regression model

See Also

Other Prediction: [getPredictionCohorts\(\)](#), [getPredictionDiagnosticTable\(\)](#), [getPredictionDiagnostics\(\)](#), [getPredictionHyperParamSearch\(\)](#), [getPredictionModelDesigns\(\)](#), [getPredictionPerformanceTable\(\)](#), [getPredictionPerformances\(\)](#), [getPredictionTopPredictors\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

intercepts <- getPredictionIntercept(
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

getPredictionModelDesigns

Extract the model designs and aggregate performances for the prediction results

Description

This function extracts the model design settings and min/max/mean AUROC values of the models developed using the model design across databases

Usage

```
getPredictionModelDesigns(
  connectionHandler,
  schema,
  plpTablePrefix = "plp_",
  cgTablePrefix = "cg_",
  targetIds = NULL,
  outcomeIds = NULL
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
plpTablePrefix	The prefix used for the patient level prediction results tables
cgTablePrefix	The prefix used for the cohort generator results tables
targetIds	A vector of integers corresponding to the target cohort IDs
outcomeIds	A vector of integers corresponding to the outcome cohort IDs

Details

Specify the connectionHandler, the resultDatabaseSettings and (optionally) any targetIds or outcomeIds to restrict model designs to

Value

Returns a data.frame with the columns:

- modelDesignId a unique identifier in the database for the model design
- modelType the type of classifier or survival model
- developmentTargetId a unique identifier for the development target ID
- developmentTargetName the name of the development target cohort
- developmentTargetJson the json of the target cohort
- developmentOutcomeId a unique identifier for the development outcome ID
- developmentOutcomeName the name of the development outcome cohort
- timeAtRisk the time at risk string
- developmentOutcomeJson the json of the outcome cohort
- covariateSettingsJson the covariate settings json
- populationSettingsJson the population settings json
- tidyCovariatesSettingsJson the tidy covariate settings json
- plpDataSettingsJson the plp data extraction settings json

- featureEngineeringSettingsJson the feature engineering settings json
- splitSettingsJson the split settings json
- sampleSettingsJson the sample settings json
- minAuroc the min AUROC value of models developed using the model design across databases
- meanAuroc the mean AUROC value of models developed using the model design across databases
- maxAuroc the max AUROC value of models developed using the model design across databases
- noDiagnosticDatabases the number of databases where the model design diagnostics were generated
- noDevelopmentDatabases the number of databases where the model design was used to develop models
- noValidationDatabases the number of databases where the models developed using the model design was externally validated

See Also

Other Prediction: [getPredictionCohorts\(\)](#), [getPredictionDiagnosticTable\(\)](#), [getPredictionDiagnostics\(\)](#), [getPredictionHyperParamSearch\(\)](#), [getPredictionIntercept\(\)](#), [getPredictionPerformanceTable\(\)](#), [getPredictionPerformances\(\)](#), [getPredictionTopPredictors\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

modDesign <- getPredictionModelDesigns(
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

getPredictionPerformances

Extract the model performances

Description

This function extracts the model performances

Usage

```
getPredictionPerformances(
  connectionHandler,
  schema,
  plpTablePrefix = "plp_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  databaseTablePrefix = "",
  modelDesignId = NULL,
  developmentDatabaseId = NULL
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
plpTablePrefix	The prefix used for the patient level prediction results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default 'database_meta_data')
databaseTablePrefix	A prefix to the database table, either "" or 'plp_'
modelDesignId	The identifier for a model design to restrict results to
developmentDatabaseId	The identifier for the development database to restrict results to

Details

Specify the connectionHandler, the resultDatabaseSettings and (optionally) a modelDesignId and/or developmentDatabaseId to restrict models to

Value

Returns a data.frame with the columns:

- performanceId the unique identifier for the performance
- modelDesignId the unique identifier for the model design
- developmentDatabaseId the unique identifier for the database used to develop the model
- validationDatabaseId the unique identifier for the database used to validate the model
- developmentTargetId the unique cohort id for the development target population
- developmentTargetName the name for the development target population
- developmentOutcomeId the unique cohort id for the development outcome
- developmentOutcomeName the name for the development outcome
- developmentDatabase the name for the database used to develop the model

- validationDatabase the name for the database used to validate the model
- validationTargetName the name for the validation target population
- validationOutcomeName the name for the validation outcome
- timeStamp the date/time when the analysis occurred
- auroc the test/validation AUROC value for the model
- auroc95lb the test/validation lower bound of the 95 percent CI AUROC value for the model
- auroc95ub the test/validation upper bound of the 95 percent CI AUROC value for the model
- calibrationInLarge the test/validation calibration in the large value for the model
- eStatistic the test/validation calibration e-statistic value for the model
- brierScore the test/validation brier value for the model
- auprc the test/validation discrimination AUPRC value for the model
- populationSize the test/validation population size used to develop the model
- outcomeCount the test/validation outcome count used to develop the model
- evalPercent the percentage of the development data used as the test set
- outcomePercent the outcome percent in the development data
- validationTimeAtRisk time at risk for the validation
- predictionResultType development or validation

See Also

Other Prediction: [getPredictionCohorts\(\)](#), [getPredictionDiagnosticTable\(\)](#), [getPredictionDiagnostics\(\)](#), [getPredictionHyperParamSearch\(\)](#), [getPredictionIntercept\(\)](#), [getPredictionModelDesigns\(\)](#), [getPredictionPerformanceTable\(\)](#), [getPredictionTopPredictors\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

perf <- getPredictionPerformances(
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

getPredictionPerformanceTable
Extract specific results table

Description

This function extracts the specified table

Usage

```
getPredictionPerformanceTable(  
  connectionHandler,  
  schema,  
  plpTablePrefix = "plp_",  
  table = "attrition",  
  performanceId = NULL  
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
plpTablePrefix	The prefix used for the patient level prediction results tables
table	The table to extract
performanceId	(optional) restrict to the input performanceId

Details

Specify the connectionHandler, the resultDatabaseSettings, the table of interest and (optionally) a performanceId to filter to

Value

Returns a data.frame with the specified table

See Also

Other Prediction: [getPredictionCohorts\(\)](#), [getPredictionDiagnosticTable\(\)](#), [getPredictionDiagnostics\(\)](#), [getPredictionHyperParamSearch\(\)](#), [getPredictionIntercept\(\)](#), [getPredictionModelDesigns\(\)](#), [getPredictionPerformances\(\)](#), [getPredictionTopPredictors\(\)](#)

Examples

```

conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

attrition <- getPredictionPerformanceTable(
  connectionHandler = connectionHandler,
  schema = 'main',
  table = 'attrition'
)

```

getPredictionTopPredictors

Extract the top N predictors per model

Description

This function extracts the top N predictors per model from the prediction results tables

Usage

```

getPredictionTopPredictors(
  connectionHandler,
  schema,
  plpTablePrefix = "plp_",
  cgTablePrefix = "cg_",
  targetIds = NULL,
  outcomeIds = NULL,
  numberPredictors = 100
)

```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via ‘ResultModelManager::ConnectionHandler\$new()’.
schema	The result database schema (e.g., ‘main’ for sqlite)
plpTablePrefix	The prefix used for the patient level prediction results tables
cgTablePrefix	The prefix used for the cohort generator results tables
targetIds	A vector of integers corresponding to the target cohort IDs
outcomeIds	A vector of integers corresponding to the outcome cohort IDs
numberPredictors	the number of predictors per model to return

Details

Specify the `connectionHandler`, the `resultDatabaseSettings` and (optionally) any `targetIds` or `outcomeIds` to restrict models to

Value

Returns a `data.frame` with the columns:

- `databaseName` the name of the database the model was developed on
- `tarStartDay` the time-at-risk start day
- `tarStartAnchor` whether the time-at-risk start is relative to cohort start or end
- `tarEndDay` the time-at-risk end day
- `tarEndAnchor` whether the time-at-risk end is relative to cohort start or end
- `performanceId` a unique identifier for the performance
- `covariateId` the `FeatureExtraction` covariate identifier
- `covariateName` the name of the covariate
- `conceptId` the covariates corresponding concept or 0
- `covariateValue` the feature importance or coefficient value
- `covariateCount` how many people had the covariate
- `covariateMean` the fraction of the target population with the covariate
- `covariateStDev` the standard deviation
- `withNoOutcomeCovariateCount` the number of the target population without the outcome with the covariate
- `withNoOutcomeCovariateMean` the fraction of the target population without the outcome with the covariate
- `withNoOutcomeCovariateStDev` the covariate standard deviation of the target population without the outcome
- `withOutcomeCovariateCount` the number of the target population with the outcome with the covariate
- `withOutcomeCovariateMean` the fraction of the target population with the outcome with the covariate
- `withOutcomeCovariateStDev` the covariate standard deviation of the target population with the outcome
- `standardizedMeanDiff` the standardized mean difference comparing the target population with outcome and without the outcome
- `rn` the row number showing the covariate rank

See Also

Other Prediction: [getPredictionCohorts\(\)](#), [getPredictionDiagnosticTable\(\)](#), [getPredictionDiagnostics\(\)](#), [getPredictionHyperParamSearch\(\)](#), [getPredictionIntercept\(\)](#), [getPredictionModelDesigns\(\)](#), [getPredictionPerformanceTable\(\)](#), [getPredictionPerformances\(\)](#)

Examples

```

conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

topPreds <- getPredictionTopPredictors(
  connectionHandler = connectionHandler,
  schema = 'main',
  targetIds = 1,
  outcomeIds = 3
)

```

```
getSccsDiagnosticsData
```

Extract the self controlled case series (scs) diagnostic results

Description

This function extracts the scs diagnostics that examine whether the analyses were sufficiently powered and checks for different types of bias.

Usage

```

getSccsDiagnosticsData(
  connectionHandler,
  schema,
  sccsTablePrefix = "sccs_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetIds = NULL,
  outcomeIds = NULL
)

```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via ‘ResultModelManager::ConnectionHandler\$new()’.
schema	The result database schema (e.g., ‘main’ for sqlite)
sccsTablePrefix	The prefix used for the cohort generator results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default ‘database_meta_data’)
targetIds	A vector of integers corresponding to the target cohort IDs
outcomeIds	A vector of integers corresponding to the outcome cohort IDs

Details

Specify the connectionHandler, the schema and the target/outcome cohort IDs

Value

Returns a data.frame with the columns:

- databaseName the database name
- analysisId the analysis unique identifier
- description an analysis description
- targetName the target name
- targetId the target cohort id
- outcomeName the outcome name
- outcomeId the outcome cohort id
- indicationName the indication name
- indicatonId the indication cohort id
- covariateName whether main or secondary analysis
- mdrr the maximum passable minimum detectable relative risk (mdrr) value. If the mdrr is greater than this the diagnostics will fail.
- ease The expected absolute systematic error (ease) measures residual bias.
- timeTrendP The p for whether the mean monthly ratio between observed and expected is no greater than 1.25.
- preExposureP One-sided p-value for whether the rate before expore is higher than after, against the null of no difference.
- mdrrDiagnostic whether the mdrr (power) diagnostic passed or failed.
- easeDiagnostic whether the ease diagnostic passed or failed.
- timeTrendDiagnostic Pass / warning / fail / not evaluated classification of the time trend (unstalbe months) diagnostic.
- preExposureDiagnostic Pass / warning / fail / not evaluated classification of the time trend (unstalbe months) diagnostic.
- unblind whether the results can be unblinded.
- unblindForEvidenceSynthesis whether the results can be unblinded for the meta analysis.
- summaryValue summary of diagnostics results. FAIL, PASS or number of warnings.

See Also

Other Estimation: [getCMEstimation\(\)](#), [getCmDiagnosticsData\(\)](#), [getCmMetaEstimation\(\)](#), [getSccsEstimation\(\)](#), [getSccsMetaEstimation\(\)](#), [plotCmEstimates\(\)](#), [plotSccsEstimates\(\)](#)

Examples

```

conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

sccsDiag <- getSccsDiagnosticsData(
  connectionHandler = connectionHandler,
  schema = 'main',
  targetIds = 1,
  outcomeIds = 3
)

```

getSccsEstimation	<i>Extract the self controlled case series (sccs) results</i>
-------------------	---

Description

This function extracts the single database sccs estimates

Usage

```

getSccsEstimation(
  connectionHandler,
  schema,
  sccsTablePrefix = "sccs_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetIds = NULL,
  outcomeIds = NULL
)

```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via ‘ResultModelManager::ConnectionHandler\$new()’.
schema	The result database schema (e.g., ‘main’ for sqlite)
sccsTablePrefix	The prefix used for the cohort generator results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default ‘database_meta_data’)
targetIds	A vector of integers corresponding to the target cohort IDs
outcomeIds	A vector of integers corresponding to the outcome cohort IDs

Details

Specify the connectionHandler, the schema and the target/outcome cohort IDs

Value

Returns a data.frame with the columns:

- databaseName the database name
- analysisId the analysis unique identifier
- description an analysis description
- targetName the target name
- targetId the target cohort id
- outcomeName the outcome name
- outcomeId the outcome cohort id
- indicationName the indication name
- indicatonId the indication cohort id
- covariateName whether main or secondary analysis
- outcomeSubjects The number of subjects with at least one outcome.
- outcomeEvents The number of outcome events.
- outcomeObservationPeriods The number of observation periods containing at least one outcome.
- covariateSubjects The number of subjects having the covariate.
- covariateDays The total covariate time in days.
- covariateEras The number of continuous eras of the covariate.
- covariateOutcomes The number of outcomes observed during the covariate time.
- observedDays The number of days subjects were observed.
- rr the relative risk
- ci95Lb the lower bound of the 95 percent confidence interval for the relative risk
- ci95Ub the upper bound of the 95 percent confidence interval for the relative risk
- p the p-value for the relative risk
- logRr the log of the relative risk
- seLogRr the standard error or the log of the relative risk
- calibratedRr the calibrated relative risk
- calibratedCi95Lb the lower bound of the 95 percent confidence interval for the calibrated relative risk
- calibratedCi95Ub the upper bound of the 95 percent confidence interval for the calibrated relative risk
- calibratedP the calibrated p-value
- calibratedOneSidedP the calibrated one sided p-value
- calibratedLogRr the calibrated log of the relative risk

- calibratedSeLogRr the calibrated log of the relative risk standard error
- llr The log of the likelihood ratio (of the MLE vs the null hypothesis of no effect).
- mdrr The minimum detectable relative risk.
- unblind Whether the results can be unblinded

See Also

Other Estimation: [getCMEstimation\(\)](#), [getCmDiagnosticsData\(\)](#), [getCmMetaEstimation\(\)](#), [getSccsDiagnosticsData\(\)](#), [getSccsMetaEstimation\(\)](#), [plotCmEstimates\(\)](#), [plotSccsEstimates\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

sccsEst <- getSccsEstimation(
  connectionHandler = connectionHandler,
  schema = 'main',
  targetIds = 1,
  outcomeIds = 3
)
```

`getSccsMetaEstimation` *Extract the self controlled case series (sccs) meta analysis results*

Description

This function extracts any meta analysis estimation results for sccs.

Usage

```
getSccsMetaEstimation(
  connectionHandler,
  schema,
  sccsTablePrefix = "sccs_",
  cgTablePrefix = "cg_",
  esTablePrefix = "es_",
  targetIds = NULL,
  outcomeIds = NULL
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
sccsTablePrefix	The prefix used for the cohort generator results tables
cgTablePrefix	The prefix used for the cohort generator results tables
esTablePrefix	The prefix used for the evidence synthesis results tables
targetIds	A vector of integers corresponding to the target cohort IDs
outcomeIds	A vector of integers corresponding to the outcome cohort IDs

Details

Specify the connectionHandler, the schema and the targetoutcome cohort IDs

Value

Returns a data.frame with the columns:

#'

- databaseName the database name
- analysisId the analysis unique identifier
- description an analysis description
- targetName the target name
- targetId the target cohort id
- outcomeName the outcome name
- outcomeId the outcome cohort id
- indicationName the indicationname
- indicationId the indication cohort id
- covariateName whether main or secondary analysis
- outcomeSubjects The number of subjects with at least one outcome.
- outcomeEvents The number of outcome events.
- outcomeObservationPeriods The number of observation periods containing at least one outcome.
- covariateSubjects The number of subjects having the covariate.
- covariateDays The total covariate time in days.
- covariateEras The number of continuous eras of the covariate.
- covariateOutcomes The number of outcomes observed during the covariate time.
- observedDays The number of days subjects were observed.
- calibratedRr the calibrated relative risk

- calibratedCi95Lb the lower bound of the 95 percent confidence interval for the calibrated relative risk
- calibratedCi95Ub the upper bound of the 95 percent confidence interval for the calibrated relative risk
- calibratedP the calibrated p-value
- calibratedOneSidedP the calibrated one sided p-value
- calibratedLogRr the calibrated log of the relative risk
- calibratedSeLogRr the calibrated log of the relative risk standard error
- nDatabases The number of databases included in the estimate.

See Also

Other Estimation: [getCMEstimation\(\)](#), [getCmDiagnosticsData\(\)](#), [getCmMetaEstimation\(\)](#), [getSccsDiagnosticsData\(\)](#), [getSccsEstimation\(\)](#), [plotCmEstimates\(\)](#), [plotSccsEstimates\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

scCsMeta <- getScCsMetaEstimation(
  connectionHandler = connectionHandler,
  schema = 'main',
  targetIds = 1,
  outcomeIds = 3
)
```

getTargetBinaryFeatures

Extract aggregate statistics of binary feature analysis IDs of interest for targets

Description

This function extracts the feature extraction results for targets corresponding to specified target and outcome cohorts.

Usage

```
getTargetBinaryFeatures(
  connectionHandler,
  schema,
  cTablePrefix = "c_",
  cgTablePrefix = "cg_",
```

```

    databaseTable = "database_meta_data",
    targetIds = NULL,
    outcomeIds = NULL,
    analysisIds = c(3)
  )

```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
cTablePrefix	The prefix used for the characterization results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default 'database_meta_data')
targetIds	A vector of integers corresponding to the target cohort IDs
outcomeIds	A vector of integers corresponding to the outcome cohort IDs
analysisIds	The feature extraction analysis ID of interest (e.g., 201 is condition)

Details

Specify the connectionHandler, the schema and the target/outcome cohort IDs

Value

Returns a data.frame with the columns:

- databaseName the name of the database
- targetName the target cohort name
- targetId the target cohort unique identifier
- outcomeName the outcome name
- outcomeId the outcome unique identifier
- minPriorObservation the minimum required observation days prior to index for an entry
- outcomeWashoutDays patients with the outcome occurring within this number of days prior to index are excluded (NA means no exclusion)
- covariateId the id of the feature
- covariateName the name of the feature
- sumValue the number of target patients who have the feature value of 1 (minus those excluded due to having the outcome prior)
- rawSum the number of target patients who have the feature value of 1 (ignoring exclusions)
- rawAverage the fraction of target patients who have the feature value of 1 (ignoring exclusions)

See Also

Other Characterization: `getBinaryCaseSeries()`, `getBinaryRiskFactors()`, `getCaseBinaryFeatures()`, `getCaseContinuousFeatures()`, `getCaseCounts()`, `getCharacterizationDemographics()`, `getContinuousCaseSeries()`, `getContinuousRiskFactors()`, `getDechallengeRechallenge()`, `getIncidenceRates()`, `getTargetContinuousFeatures()`, `getTargetCounts()`, `getTimeToEvent()`, `plotAgeDistributions()`, `plotSexDistributions()`

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

tbfbf <- getTargetBinaryFeatures (
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

getTargetContinuousFeatures

Extract aggregate statistics of continuous feature analysis IDs of interest for targets

Description

This function extracts the continuous feature extraction results for targets corresponding to specified target cohorts.

Usage

```
getTargetContinuousFeatures(
  connectionHandler,
  schema,
  cTablePrefix = "c_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetIds = NULL,
  analysisIds = NULL
)
```

Arguments

<code>connectionHandler</code>	A connection handler that connects to the database and extracts sql queries. Create a connection handler via ‘ <code>ResultModelManager::ConnectionHandler\$new()</code> ’.
<code>schema</code>	The result database schema (e.g., ‘main’ for sqlite)
<code>cTablePrefix</code>	The prefix used for the characterization results tables

cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default 'database_meta_data')
targetIds	A vector of integers corresponding to the target cohort IDs
analysisIds	The feature extraction analysis ID of interest (e.g., 201 is condition)

Details

Specify the connectionHandler, the schema and the target/outcome cohort IDs

Value

Returns a data.frame with the columns:

- databaseName the name of the database
- targetName the target cohort name
- targetId the target cohort unique identifier
- minPriorObservation the minimum required observation days prior to index for an entry
- covariateName the name of the feature
- covariateId the id of the feature
- countValue the number of cases who have the feature
- minValue the minimum value observed for the feature
- maxValue the maximum value observed for the feature
- averageValue the mean value observed for the feature
- standardDeviation the standard deviation of the value observed for the feature
- medianValue the median value observed for the feature
- p10Value the 10th percentile of the value observed for the feature
- p25Value the 25th percentile of the value observed for the feature
- p75Value the 75th percentile of the value observed for the feature
- p90Value the 90th percentile of the value observed for the feature

See Also

Other Characterization: [getBinaryCaseSeries\(\)](#), [getBinaryRiskFactors\(\)](#), [getCaseBinaryFeatures\(\)](#), [getCaseContinuousFeatures\(\)](#), [getCaseCounts\(\)](#), [getCharacterizationDemographics\(\)](#), [getContinuousCaseSeries\(\)](#), [getContinuousRiskFactors\(\)](#), [getDechallengeRechallenge\(\)](#), [getIncidenceRates\(\)](#), [getTargetBinaryFeatures\(\)](#), [getTargetCounts\(\)](#), [getTimeToEvent\(\)](#), [plotAgeDistributions\(\)](#), [plotSexDistributions\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

tcf <- getTargetContinuousFeatures(
  connectionHandler = connectionHandler,
```

```
schema = 'main'
)
```

getTargetCounts	<i>Extract the target cohort counts result</i>
-----------------	--

Description

This function extracts target cohort counts across databases in the results for specified target and outcome cohorts.

Usage

```
getTargetCounts(
  connectionHandler,
  schema,
  cTablePrefix = "c_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetIds = NULL,
  outcomeIds = NULL
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
cTablePrefix	The prefix used for the characterization results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default 'database_meta_data')
targetIds	A vector of integers corresponding to the target cohort IDs
outcomeIds	A vector of integers corresponding to the outcome cohort IDs

Details

Specify the connectionHandler, the schema and the target/outcome cohort IDs

Value

Returns a data.frame with the columns:

- `databaseName` the name of the database
- `targetName` the target cohort name
- `targetId` the target cohort unique identifier
- `outcomeName` the outcome name
- `outcomeId` the outcome unique identifier
- `rowCount` the number of entries in the cohort
- `personCount` the number of people in the cohort
- `minPriorObservation` the minimum required observation days prior to index for an entry
- `outcomeWashoutDays` patients with the outcome occurring within this number of days prior to index are excluded (NA means no exclusion)

See Also

Other Characterization: [getBinaryCaseSeries\(\)](#), [getBinaryRiskFactors\(\)](#), [getCaseBinaryFeatures\(\)](#), [getCaseContinuousFeatures\(\)](#), [getCaseCounts\(\)](#), [getCharacterizationDemographics\(\)](#), [getContinuousCaseSeries\(\)](#), [getContinuousRiskFactors\(\)](#), [getDechallengeRechallenge\(\)](#), [getIncidenceRates\(\)](#), [getTargetBinaryFeatures\(\)](#), [getTargetContinuousFeatures\(\)](#), [getTimeToEvent\(\)](#), [plotAgeDistributions\(\)](#), [plotSexDistributions\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

tc <- getTargetCounts(
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

<code>getTimeToEvent</code>	<i>Extract the time to event result</i>
-----------------------------	---

Description

This function extracts all time to event results across databases for specified target and outcome cohorts.

Usage

```
getTimeToEvent(
  connectionHandler,
  schema,
  cTablePrefix = "c_",
  cgTablePrefix = "cg_",
  databaseTable = "database_meta_data",
  targetIds = NULL,
  outcomeIds = NULL
)
```

Arguments

connectionHandler	A connection handler that connects to the database and extracts sql queries. Create a connection handler via 'ResultModelManager::ConnectionHandler\$new()'.
schema	The result database schema (e.g., 'main' for sqlite)
cTablePrefix	The prefix used for the characterization results tables
cgTablePrefix	The prefix used for the cohort generator results tables
databaseTable	The name of the table with the database details (default 'database_meta_data')
targetIds	A vector of integers corresponding to the target cohort IDs
outcomeIds	A vector of integers corresponding to the outcome cohort IDs

Details

Specify the connectionHandler, the schema and the target/outcome cohort IDs

Value

Returns a data.frame with the columns:

- databaseName the name of the database
- targetName the target cohort name
- targetId the target cohort unique identifier
- outcomeName the outcome name
- outcomeId the outcome unique identifier
- outcomeType Whether the outcome is the first or subsequent
- targetOutcomeType The interval that the outcome occurs
- timeToEvent The number of days from index
- numEvents The number of target cohort entries
- timeScale The correspondin time-scale

See Also

Other Characterization: `getBinaryCaseSeries()`, `getBinaryRiskFactors()`, `getCaseBinaryFeatures()`, `getCaseContinuousFeatures()`, `getCaseCounts()`, `getCharacterizationDemographics()`, `getContinuousCaseSeries()`, `getContinuousRiskFactors()`, `getDechallengeRechallenge()`, `getIncidenceRates()`, `getTargetBinaryFeatures()`, `getTargetContinuousFeatures()`, `getTargetCounts()`, `plotAgeDistributions()`, `plotSexDistributions()`

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

tte <- getTimeToEvent(
  connectionHandler = connectionHandler,
  schema = 'main'
)
```

kableDark	<i>output a nicely formatted html table</i>
-----------	---

Description

This returns a html table with the input data

Usage

```
kableDark(data, caption = NULL, position = NULL)
```

Arguments

data	A data.frame containing data of interest to show via a table
caption	A caption for the table
position	The position for the table if used within a quarto document. This is the "real" or say floating position for the latex table environment. The kable only puts tables in a table environment when a caption is provided. That is also the reason why your tables will be floating around if you specify captions for your table. Possible choices are h (here), t (top, default), b (bottom) and p (on a dedicated page).

Details

Input the data that you want to be shown via a dark html table

Value

An object of class 'knitr_kable' that will show the data via a nice html table

See Also

Other helper: [addTarColumn\(\)](#), [formatBinaryCovariateName\(\)](#), [getExampleConnectionDetails\(\)](#), [printReactable\(\)](#), [removeSpaces\(\)](#)

Examples

```
kableDark(  
  data = data.frame(a=1,b=4),  
  caption = 'A made up table to demonstrate this function',  
  position = 'h'  
)
```

OhdsiReportGenerator *OhdsiReportGenerator*

Description

A package for extracting analyses results and creating reports.

Author(s)

Maintainer: Jenna Reps <jreps@its.jnj.com>

Authors:

- Anthony Sena <sena@ohdsi.org>

See Also

Useful links:

- <https://ohdsi.github.io/OhdsiReportGenerator/>
- <https://github.com/OHDSI/OhdsiReportGenerator>
- Report bugs at <https://github.com/OHDSI/OhdsiReportGenerator/issues>

plotAgeDistributions *Plots the age distributions using the binary age groups*

Description

Creates bar charts for the target and case age groups.

Usage

```
plotAgeDistributions(
  ageData,
  riskWindowStart = "1",
  riskWindowEnd = "365",
  startAnchor = "cohort start",
  endAnchor = "cohort start"
)
```

Arguments

ageData	The age data extracted using 'getCharacterizationDemographics(type = 'age')'
riskWindowStart	The time at risk window start
riskWindowEnd	The time at risk window end
startAnchor	The anchor for the time at risk start
endAnchor	The anchor for the time at risk end

Details

Input the data returned from 'getCharacterizationDemographics(type = 'age')' and the time-at-risk

Value

Returns a ggplot with the distributions

See Also

Other Characterization: [getBinaryCaseSeries\(\)](#), [getBinaryRiskFactors\(\)](#), [getCaseBinaryFeatures\(\)](#), [getCaseContinuousFeatures\(\)](#), [getCaseCounts\(\)](#), [getCharacterizationDemographics\(\)](#), [getContinuousCaseSeries\(\)](#), [getContinuousRiskFactors\(\)](#), [getDechallengeRechallenge\(\)](#), [getIncidenceRates\(\)](#), [getTargetBinaryFeatures\(\)](#), [getTargetContinuousFeatures\(\)](#), [getTargetCounts\(\)](#), [getTimeToEvent\(\)](#), [plotSexDistributions\(\)](#)

Examples

```

conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

ageData <- getCharacterizationDemographics(
  connectionHandler = connectionHandler,
  schema = 'main',
  targetId = 1,
  outcomeId = 3,
  type = 'age'
)

plotAgeDistributions(ageData = ageData)

```

plotCmEstimates	<i>Plots the cohort method results for one analysis</i>
-----------------	---

Description

Creates nice cohort method plots

Usage

```

plotCmEstimates(
  cmData,
  cmMeta = NULL,
  targetName,
  comparatorName,
  selectedAnalysisId
)

```

Arguments

cmData	The cohort method data
cmMeta	(optional) The cohort method evidence synthesis data
targetName	A friendly name for the target cohort
comparatorName	A friendly name for the comparator cohort
selectedAnalysisId	The analysis ID of interest to plot

Details

Input the cohort method data

Value

Returns a ggplot with the estimates

See Also

Other Estimation: [getCMEstimation\(\)](#), [getCmDiagnosticsData\(\)](#), [getCmMetaEstimation\(\)](#), [getSccsDiagnosticsData\(\)](#), [getSccsEstimation\(\)](#), [getSccsMetaEstimation\(\)](#), [plotSccsEstimates\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

cmEst <- getCMEstimation(
  connectionHandler = connectionHandler,
  schema = 'main',
  targetIds = 1,
  outcomeIds = 3
)
plotCmEstimates(
  cmData = cmEst,
  cmMeta = NULL,
  targetName = 'target',
  comparatorName = 'comp',
  selectedAnalysisId = 1
)
```

plotSccsEstimates	<i>Plots the self controlled case series results for one analysis</i>
-------------------	---

Description

Creates nice self controlled case series plots

Usage

```
plotSccsEstimates(sccsData, sccsMeta = NULL, targetName, selectedAnalysisId)
```

Arguments

sccsData	The self controlled case series data
sccsMeta	(optional) The self controlled case seriesd evidence synthesis data
targetName	A friendly name for the target cohort
selectedAnalysisId	The analysis ID of interest to plot

Details

Input the self controlled case series data

Value

Returns a ggplot with the estimates

See Also

Other Estimation: [getCMEstimation\(\)](#), [getCmDiagnosticsData\(\)](#), [getCmMetaEstimation\(\)](#), [getSccsDiagnosticsData\(\)](#), [getSccsEstimation\(\)](#), [getSccsMetaEstimation\(\)](#), [plotCmEstimates\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

scCsEst <- getScCsEstimation(
  connectionHandler = connectionHandler,
  schema = 'main',
  targetIds = 1,
  outcomeIds = 3
)
plotScCsEstimates(
  scCsData = scCsEst,
  scCsMeta = NULL,
  targetName = 'target',
  selectedAnalysisId = 1
)
```

`plotSexDistributions` *Plots the sex distributions using the sex features*

Description

Creates bar charts for the target and case sex.

Usage

```
plotSexDistributions(
  sexData,
  riskWindowStart = "1",
  riskWindowEnd = "365",
  startAnchor = "cohort start",
  endAnchor = "cohort start"
)
```

Arguments

sexData	The sex data extracted using 'getCharacterizationDemographics(type = 'sex')'
riskWindowStart	The time at risk window start
riskWindowEnd	The time at risk window end
startAnchor	The anchor for the time at risk start
endAnchor	The anchor for the time at risk end

Details

Input the data returned from 'getCharacterizationDemographics(type = 'sex')' and the time-at-risk

Value

Returns a ggplot with the distributions

See Also

Other Characterization: [getBinaryCaseSeries\(\)](#), [getBinaryRiskFactors\(\)](#), [getCaseBinaryFeatures\(\)](#), [getCaseContinuousFeatures\(\)](#), [getCaseCounts\(\)](#), [getCharacterizationDemographics\(\)](#), [getContinuousCaseSeries\(\)](#), [getContinuousRiskFactors\(\)](#), [getDechallengeRechallenge\(\)](#), [getIncidenceRates\(\)](#), [getTargetBinaryFeatures\(\)](#), [getTargetContinuousFeatures\(\)](#), [getTargetCounts\(\)](#), [getTimeToEvent\(\)](#), [plotAgeDistributions\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

sexData <- getCharacterizationDemographics(
  connectionHandler = connectionHandler,
  schema = 'main',
  targetId = 1,
  outcomeId = 3,
  type = 'sex'
)
plotSexDistributions(sexData = sexData)
```

printReactable	<i>prints a reactable in a quarto document</i>
----------------	--

Description

This function lets you print a reactable in a quarto document

Usage

```
printReactable(
  data,
  columns = NULL,
  groupBy = NULL,
  defaultPageSize = 20,
  highlight = TRUE,
  striped = TRUE,
  searchable = TRUE,
  filterable = TRUE
)
```

Arguments

<code>data</code>	The data for the table
<code>columns</code>	The formatting for the columns
<code>groupBy</code>	A column or columns to group the table by
<code>defaultPageSize</code>	The number of rows in the table
<code>highlight</code>	whether to highlight the row of interest
<code>striped</code>	whether the rows change color to give a striped appearance
<code>searchable</code>	whether you can search in the table
<code>filterable</code>	whether you can filter the table

Details

Input the values for `reactable::reactable`

Value

Nothing but the html code for the table is printed (to be used in a quarto document)

See Also

Other helper: [addTarColumn\(\)](#), [formatBinaryCovariateName\(\)](#), [getExampleConnectionDetails\(\)](#), [kableDark\(\)](#), [removeSpaces\(\)](#)

Examples

```
printReactable(
  data = data.frame(a=1,b=4)
)
```

processCohorts	<i>Extract the cohort parents and children cohorts (cohorts derieved from the parent cohort)</i>
----------------	--

Description

This function lets you split the cohort data.frame into the parents and the children per parent.

Usage

```
processCohorts(cohort)
```

Arguments

cohort	The data.frame extracted using 'getCohortDefinitions()'
--------	---

Details

Finds the parent cohorts and children cohorts

Value

Returns a list containing parents: a named vector of all the parent cohorts and cohortList: a list the same length as the parent vector with the first element containing all the children of the first parent cohort, the second element containing the children of the second parent, etc.

See Also

Other Cohorts: [getCohortDefinitions\(\)](#), [getCohortSubsetDefinitions\(\)](#)

Examples

```
conDet <- getExampleConnectionDetails()

connectionHandler <- ResultModelManager::ConnectionHandler$new(conDet)

cohortDef <- getCohortDefinitions(
  connectionHandler = connectionHandler,
  schema = 'main'
)

parents <- processCohorts(cohortDef)
```

removeSpaces	<i>removeSpaces</i>
--------------	---------------------

Description

Removes spaces and replaces with under scroll

Usage

```
removeSpaces(x)
```

Arguments

x	A string
---	----------

Details

Removes spaces and replaces with under scroll

Value

A string without spaces

See Also

Other helper: [addTarColumn\(\)](#), [formatBinaryCovariateName\(\)](#), [getExampleConnectionDetails\(\)](#), [kableDark\(\)](#), [printReactable\(\)](#)

Examples

```
removeSpaces(' made up.  string')
```

Index

* Characterization

- getBinaryCaseSeries, 10
- getBinaryRiskFactors, 12
- getCaseBinaryFeatures, 13
- getCaseContinuousFeatures, 15
- getCaseCounts, 17
- getCharacterizationDemographics, 18
- getContinuousCaseSeries, 28
- getContinuousRiskFactors, 29
- getDechallengeRechallenge, 31
- getIncidenceRates, 34
- getTargetBinaryFeatures, 56
- getTargetContinuousFeatures, 58
- getTargetCounts, 60
- getTimeToEvent, 61
- plotAgeDistributions, 65
- plotSexDistributions, 68

* Cohorts

- getCohortDefinitions, 26
- getCohortSubsetDefinitions, 27
- processCohorts, 71

* Estimation

- getCmDiagnosticsData, 20
- getCMEstimation, 22
- getCmMetaEstimation, 24
- getSccsDiagnosticsData, 50
- getSccsEstimation, 52
- getSccsMetaEstimation, 54
- plotCmEstimates, 66
- plotSccsEstimates, 67

* Prediction

- getPredictionCohorts, 36
- getPredictionDiagnostics, 37
- getPredictionDiagnosticTable, 39
- getPredictionHyperParamSearch, 40
- getPredictionIntercept, 41
- getPredictionModelDesigns, 42
- getPredictionPerformances, 44

- getPredictionPerformanceTable, 47
- getPredictionTopPredictors, 48

* Reporting

- generateFullReport, 4
- generatePresentation, 6
- generatePresentationMultiple, 8

* helper

- addTarColumn, 3
- formatBinaryCovariateName, 4
- getExampleConnectionDetails, 33
- kableDark, 63
- printReactable, 69
- removeSpaces, 72

addTarColumn, 3, 4, 33, 64, 70, 72

formatBinaryCovariateName, 3, 4, 33, 64, 70, 72

generateFullReport, 4, 8, 10

generatePresentation, 6, 6, 10

generatePresentationMultiple, 6, 8, 8

getBinaryCaseSeries, 10, 12, 14, 16, 18, 20, 29, 30, 32, 35, 58, 59, 61, 63, 65, 69

getBinaryRiskFactors, 11, 12, 14, 16, 18, 20, 29, 30, 32, 35, 58, 59, 61, 63, 65, 69

getCaseBinaryFeatures, 11, 12, 13, 16, 18, 20, 29, 30, 32, 35, 58, 59, 61, 63, 65, 69

getCaseContinuousFeatures, 11, 12, 14, 15, 18, 20, 29, 30, 32, 35, 58, 59, 61, 63, 65, 69

getCaseCounts, 11, 12, 14, 16, 17, 20, 29, 30, 32, 35, 58, 59, 61, 63, 65, 69

getCharacterizationDemographics, 11, 12, 14, 16, 18, 18, 29, 30, 32, 35, 58, 59, 61, 63, 65, 69

getCmDiagnosticsData, 20, 23, 25, 51, 54, 56, 67, 68

- getCMEstimation, 22, 22, 25, 51, 54, 56, 67, 68
- getCmMetaEstimation, 22, 23, 24, 51, 54, 56, 67, 68
- getCohortDefinitions, 26, 28, 71
- getCohortSubsetDefinitions, 27, 27, 71
- getContinuousCaseSeries, 11, 12, 14, 16, 18, 20, 28, 30, 32, 35, 58, 59, 61, 63, 65, 69
- getContinuousRiskFactors, 11, 12, 14, 16, 18, 20, 29, 29, 32, 35, 58, 59, 61, 63, 65, 69
- getDechallengeRechallenge, 11, 12, 14, 16, 18, 20, 29, 30, 31, 35, 58, 59, 61, 63, 65, 69
- getExampleConnectionDetails, 3, 4, 33, 64, 70, 72
- getIncidenceRates, 11, 12, 14, 16, 18, 20, 29, 30, 32, 34, 58, 59, 61, 63, 65, 69
- getPredictionCohorts, 36, 38, 39, 41, 42, 44, 46, 47, 49
- getPredictionDiagnostics, 36, 37, 39, 41, 42, 44, 46, 47, 49
- getPredictionDiagnosticTable, 36, 38, 39, 41, 42, 44, 46, 47, 49
- getPredictionHyperParamSearch, 36, 38, 39, 40, 42, 44, 46, 47, 49
- getPredictionIntercept, 36, 38, 39, 41, 41, 44, 46, 47, 49
- getPredictionModelDesigns, 36, 38, 39, 41, 42, 42, 46, 47, 49
- getPredictionPerformances, 36, 38, 39, 41, 42, 44, 44, 47, 49
- getPredictionPerformanceTable, 36, 38, 39, 41, 42, 44, 46, 47, 49
- getPredictionTopPredictors, 36, 38, 39, 41, 42, 44, 46, 47, 48
- getSccsDiagnosticsData, 22, 23, 25, 50, 54, 56, 67, 68
- getSccsEstimation, 22, 23, 25, 51, 52, 56, 67, 68
- getSccsMetaEstimation, 22, 23, 25, 51, 54, 54, 67, 68
- getTargetBinaryFeatures, 11, 12, 14, 16, 18, 20, 29, 30, 32, 35, 56, 59, 61, 63, 65, 69
- getTargetContinuousFeatures, 11, 12, 14, 16, 18, 20, 29, 30, 32, 35, 58, 58, 61, 63, 65, 69
- getTargetCounts, 11, 12, 14, 16, 18, 20, 29, 30, 32, 35, 58, 59, 60, 63, 65, 69
- getTimeToEvent, 11, 12, 14, 16, 18, 20, 29, 30, 32, 35, 58, 59, 61, 61, 65, 69
- kableDark, 3, 4, 33, 63, 70, 72
- OhdsiReportGenerator, 64
- OhdsiReportGenerator-package (OhdsiReportGenerator), 64
- plotAgeDistributions, 11, 12, 14, 16, 18, 20, 29, 30, 32, 35, 58, 59, 61, 63, 65, 69
- plotCmEstimates, 22, 23, 25, 51, 54, 56, 66, 68
- plotSccsEstimates, 22, 23, 25, 51, 54, 56, 67, 67
- plotSexDistributions, 11, 12, 14, 16, 18, 20, 29, 30, 32, 35, 58, 59, 61, 63, 65, 68
- printReactable, 3, 4, 33, 64, 69, 72
- processCohorts, 27, 28, 71
- removeSpaces, 3, 4, 33, 64, 70, 72