Package 'PatientProfiles'

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Type Package

Title Identify Characteristics of Patients in the OMOP Common Data Model

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Description Identify the characteristics of patients in data mapped to the Observational Medical Outcomes Partnership (OMOP) common data model.

License Apache License (>= 2)

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BugReports https://github.com/darwin-eu/PatientProfiles/issues

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Contents

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addAge *Compute the age of the individuals at a certain date*

Description

Compute the age of the individuals at a certain date

Usage

```
addAge(
  x,
  indexDate = "cohort_start_date",
  ageName = "age",
  ageGroup = NULL,
  ageMissingMonth = 1,
  ageMissingDay = 1,
  ageImposeMonth = FALSE,
  ageImposeDay = FALSE,
  missingAgeGroupValue = "None",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
indexDate	Variable in x that contains the date to compute the age.
ageName	Name of the new column that contains age.
ageGroup	List of age groups to be added.
ageMissingMonth	Month of the year assigned to individuals with missing month of birth. By default: 1.
ageMissingDay	day of the month assigned to individuals with missing day of birth. By default: 1.

ageImposeMonth	Whether the month of the date of birth will be considered as missing for all the individuals.
ageImposeDay	Whether the day of the date of birth will be considered as missing for all the individuals.
missingAgeGroupValue	Value to include if missing age.
name	Name of the new table, if NULL a temporary table is returned.

Value

tibble with the age column added.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addAge()
mockDisconnect(cdm = cdm)
```

---

addAgeQuery *Query to add the age of the individuals at a certain date*

Description

‘r lifecycle::badge("experimental")‘ Same as ‘addAge()‘, except query is not computed to a table.

Usage

```
addAgeQuery(
  x,
  indexDate = "cohort_start_date",
  ageName = "age",
  ageGroup = NULL,
  ageMissingMonth = 1,
  ageMissingDay = 1,
  ageImposeMonth = FALSE,
  ageImposeDay = FALSE,
  missingAgeGroupValue = "None"
)
```

Arguments

x	Table with individuals in the cdm.
indexDate	Variable in x that contains the date to compute the age.
ageName	Name of the new column that contains age.

ageGroup List of age groups to be added.

ageMissingMonth
Month of the year assigned to individuals with missing month of birth. By default: 1.

ageMissingDay day of the month assigned to individuals with missing day of birth. By default: 1.

ageImposeMonth Whether the month of the date of birth will be considered as missing for all the individuals.

ageImposeDay Whether the day of the date of birth will be considered as missing for all the individuals.

missingAgeGroupValue
Value to include if missing age.

Value

tibble with the age column added.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addAgeQuery()

mockDisconnect(cdm = cdm)
```

---

addCategories *Categorize a numeric variable*

Description

Categorize a numeric variable

Usage

```
addCategories(
  x,
  variable,
  categories,
  missingCategoryValue = "None",
  overlap = FALSE,
  includeLowerBound = TRUE,
  includeUpperBound = TRUE,
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
variable	Target variable that we want to categorize.
categories	List of lists of named categories with lower and upper limit.
missingCategoryValue	Value to assign to those individuals not in any named category. If NULL or NA, missing values will not be changed.
overlap	TRUE if the categories given overlap.
includeLowerBound	Whether to include the lower bound in the group.
includeUpperBound	Whether to include the upper bound in the group.
name	Name of the new table, if NULL a temporary table is returned.

Value

The x table with the categorical variable added.

Examples

```
cdm <- mockPatientProfiles()

result <- cdm$cohort1 |>
  addAge() |>
  addCategories(
    variable = "age",
    categories = list("age_group" = list(
      "0 to 39" = c(0, 39), "40 to 79" = c(40, 79), "80 to 150" = c(80, 150)
    ))
  )
mockDisconnect(cdm = cdm)
```

---

addCdmName *Add cdm name*

Description

Add cdm name

Usage

```
addCdmName(table, cdm = omopgenerics::cdmReference(table))
```

Arguments

table	Table in the cdm
cdm	A cdm reference object

Value

Table with an extra column with the cdm names

Examples

```
library(PatientProfiles)

cdm <- mockPatientProfiles()
cdm$cohort1 |>
  addCdmName()
```

---

addCohortIntersectCount

It creates columns to indicate number of occurrences of intersection with a cohort

---

Description

It creates columns to indicate number of occurrences of intersection with a cohort

Usage

```
addCohortIntersectCount(
  x,
  targetCohortTable,
  targetCohortId = NULL,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  targetStartDate = "cohort_start_date",
  targetEndDate = "cohort_end_date",
  window = list(c(0, Inf)),
  nameStyle = "{cohort_name}_{window_name}",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
targetCohortTable	name of the cohort that we want to check for overlap.

targetCohortId	vector of cohort definition ids to include.
indexDate	Variable in x that contains the date to compute the intersection.
censorDate	whether to censor overlap events at a specific date or a column date of x.
targetStartDate	date of reference in cohort table, either for start (in overlap) or on its own (for incidence).
targetEndDate	date of reference in cohort table, either for end (overlap) or NULL (if incidence).
window	window to consider events of.
nameStyle	naming of the added column or columns, should include required parameters.
name	Name of the new table, if NULL a temporary table is returned.

Value

table with added columns with overlap information.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addCohortIntersectCount(
    targetCohortTable = "cohort2"
  )

mockDisconnect(cdm = cdm)
```

---

addCohortIntersectDate

Date of cohorts that are present in a certain window

Description

Date of cohorts that are present in a certain window

Usage

```
addCohortIntersectDate(
  x,
  targetCohortTable,
  targetCohortId = NULL,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  targetDate = "cohort_start_date",
  order = "first",
```

```
  window = c(0, Inf),
  nameStyle = "{cohort_name}_{window_name}",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
targetCohortTable	Cohort table to.
targetCohortId	Cohort IDs of interest from the other cohort table. If NULL, all cohorts will be used with a time variable added for each cohort of interest.
indexDate	Variable in x that contains the date to compute the intersection.
censorDate	whether to censor overlap events at a specific date or a column date of x.
targetDate	Date of interest in the other cohort table. Either cohort_start_date or cohort_end_date.
order	date to use if there are multiple records for an individual during the window of interest. Either first or last.
window	Window of time to identify records relative to the indexDate. Records outside of this time period will be ignored.
nameStyle	naming of the added column or columns, should include required parameters.
name	Name of the new table, if NULL a temporary table is returned.

Value

x along with additional columns for each cohort of interest.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addCohortIntersectDate(targetCohortTable = "cohort2")

mockDisconnect(cdm = cdm)
```

---

addCohortIntersectDays

It creates columns to indicate the number of days between the current table and a target cohort

---

Description

It creates columns to indicate the number of days between the current table and a target cohort

Usage

```
addCohortIntersectDays(
  x,
  targetCohortTable,
  targetCohortId = NULL,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  targetDate = "cohort_start_date",
  order = "first",
  window = c(0, Inf),
  nameStyle = "{cohort_name}_{window_name}",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
targetCohortTable	Cohort table to.
targetCohortId	Cohort IDs of interest from the other cohort table. If NULL, all cohorts will be used with a days variable added for each cohort of interest.
indexDate	Variable in x that contains the date to compute the intersection.
censorDate	whether to censor overlap events at a specific date or a column date of x.
targetDate	Date of interest in the other cohort table. Either cohort_start_date or cohort_end_date.
order	date to use if there are multiple records for an individual during the window of interest. Either first or last.
window	Window of time to identify records relative to the indexDate. Records outside of this time period will be ignored.
nameStyle	naming of the added column or columns, should include required parameters.
name	Name of the new table, if NULL a temporary table is returned.

Value

x along with additional columns for each cohort of interest.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addCohortIntersectDays(targetCohortTable = "cohort2")

mockDisconnect(cdm = cdm)
```

addCohortIntersectFlag *It creates columns to indicate the presence of cohorts*

Description

It creates columns to indicate the presence of cohorts

Usage

```
addCohortIntersectFlag(
  x,
  targetCohortTable,
  targetCohortId = NULL,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  targetStartDate = "cohort_start_date",
  targetEndDate = "cohort_end_date",
  window = list(c(0, Inf)),
  nameStyle = "{cohort_name}_{window_name}",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
targetCohortTable	name of the cohort that we want to check for overlap.
targetCohortId	vector of cohort definition ids to include.
indexDate	Variable in x that contains the date to compute the intersection.
censorDate	whether to censor overlap events at a specific date or a column date of x.
targetStartDate	date of reference in cohort table, either for start (in overlap) or on its own (for incidence).
targetEndDate	date of reference in cohort table, either for end (overlap) or NULL (if incidence).
window	window to consider events of.
nameStyle	naming of the added column or columns, should include required parameters.
name	Name of the new table, if NULL a temporary table is returned.

Value

table with added columns with overlap information.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addCohortIntersectFlag(
    targetCohortTable = "cohort2"
  )
mockDisconnect(cdm = cdm)
```

---

addCohortName *Add cohort name for each cohort_definition_id*

Description

Add cohort name for each cohort_definition_id

Usage

```
addCohortName(cohort)
```

Arguments

cohort	cohort to which add the cohort name

Value

cohort with an extra column with the cohort names

Examples

```
library(PatientProfiles)

cdm <- mockPatientProfiles()
cdm$cohort1 |>
  addCohortName()
```

addConceptIntersectCount *It creates column to indicate the count overlap information between a table and a concept*

Description

It creates column to indicate the count overlap information between a table and a concept

Usage

```
addConceptIntersectCount(
  x,
  conceptSet,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  window = list(c(0, Inf)),
  targetStartDate = "event_start_date",
  targetEndDate = "event_end_date",
  inObservation = TRUE,
  nameStyle = "{concept_name}_{window_name}",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
conceptSet	Concept set list.
indexDate	Variable in x that contains the date to compute the intersection.
censorDate	whether to censor overlap events at a date column of x
window	window to consider events in.
targetStartDate	Event start date to use for the intersection.
targetEndDate	Event end date to use for the intersection.
inObservation	If TRUE only records inside an observation period will be considered.
nameStyle	naming of the added column or columns, should include required parameters.
name	Name of the new table, if NULL a temporary table is returned.

Value

table with added columns with overlap information

Examples

```
library(PatientProfiles)
cdm <- mockPatientProfiles()
concept <- dplyr::tibble(
  concept_id = c(1125315),
  domain_id = "Drug",
  vocabulary_id = NA_character_,
  concept_class_id = "Ingredient",
  standard_concept = "S",
  concept_code = NA_character_,
  valid_start_date = as.Date("1900-01-01"),
  valid_end_date = as.Date("2099-01-01"),
  invalid_reason = NA_character_
) |>
  dplyr::mutate(concept_name = paste0("concept: ", .data$concept_id))
cdm <- CDMConnector::insertTable(cdm, "concept", concept)

cdm$cohort1 |>
  addConceptIntersectCount(conceptSet = list("acetaminophen" = 1125315))

mockDisconnect(cdm = cdm)
```

---

addConceptIntersectDate

It creates column to indicate the date overlap information between a table and a concept

---

Description

It creates column to indicate the date overlap information between a table and a concept

Usage

```
addConceptIntersectDate(
  x,
  conceptSet,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  window = list(c(0, Inf)),
  targetDate = "event_start_date",
  order = "first",
  inObservation = TRUE,
  nameStyle = "{concept_name}_{window_name}",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
conceptSet	Concept set list.
indexDate	Variable in x that contains the date to compute the intersection.
censorDate	whether to censor overlap events at a date column of x
window	window to consider events in.
targetDate	Event date to use for the intersection.
order	last or first date to use for date/days calculations.
inObservation	If TRUE only records inside an observation period will be considered.
nameStyle	naming of the added column or columns, should include required parameters.
name	Name of the new table, if NULL a temporary table is returned.

Value

table with added columns with overlap information

Examples

```
library(PatientProfiles)
cdm <- mockPatientProfiles()
concept <- dplyr::tibble(
  concept_id = c(1125315),
  domain_id = "Drug",
  vocabulary_id = NA_character_,
  concept_class_id = "Ingredient",
  standard_concept = "S",
  concept_code = NA_character_,
  valid_start_date = as.Date("1900-01-01"),
  valid_end_date = as.Date("2099-01-01"),
  invalid_reason = NA_character_
) |>
  dplyr::mutate(concept_name = paste0("concept: ", .data$concept_id))
cdm <- CDMConnector::insertTable(cdm, "concept", concept)

cdm$cohort1 |>
  addConceptIntersectDate(conceptSet = list("acetaminophen" = 1125315))

mockDisconnect(cdm = cdm)
```

addConceptIntersectDays *It creates column to indicate the days of difference from an index date to a concept*

Description

It creates column to indicate the days of difference from an index date to a concept

Usage

```
addConceptIntersectDays(
  x,
  conceptSet,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  window = list(c(0, Inf)),
  targetDate = "event_start_date",
  order = "first",
  inObservation = TRUE,
  nameStyle = "{concept_name}_{window_name}",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
conceptSet	Concept set list.
indexDate	Variable in x that contains the date to compute the intersection.
censorDate	whether to censor overlap events at a date column of x
window	window to consider events in.
targetDate	Event date to use for the intersection.
order	last or first date to use for date/days calculations.
inObservation	If TRUE only records inside an observation period will be considered.
nameStyle	naming of the added column or columns, should include required parameters.
name	Name of the new table, if NULL a temporary table is returned.

Value

table with added columns with overlap information

Examples

```
library(PatientProfiles)
cdm <- mockPatientProfiles()
concept <- dplyr::tibble(
  concept_id = c(1125315),
  domain_id = "Drug",
  vocabulary_id = NA_character_,
  concept_class_id = "Ingredient",
  standard_concept = "S",
  concept_code = NA_character_,
  valid_start_date = as.Date("1900-01-01"),
  valid_end_date = as.Date("2099-01-01"),
  invalid_reason = NA_character_
) |>
  dplyr::mutate(concept_name = paste0("concept: ", .data$concept_id))
cdm <- CDMConnector::insertTable(cdm, "concept", concept)

cdm$cohort1 |>
  addConceptIntersectDays(conceptSet = list("acetaminophen" = 1125315))

mockDisconnect(cdm = cdm)
```

---

addConceptIntersectField

It adds a custom column (field) from the intersection with a certain table subsetted by concept id. In general it is used to add the first value of a certain measurement.

Description

It adds a custom column (field) from the intersection with a certain table subsetted by concept id. In general it is used to add the first value of a certain measurement.

Usage

```
addConceptIntersectField(
  x,
  conceptSet,
  field,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  window = list(c(0, Inf)),
  targetDate = "event_start_date",
  order = "first",
  inObservation = TRUE,
  allowDuplicates = FALSE,
```

```
  nameStyle = "{field}_{concept_name}_{window_name}",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
conceptSet	Concept set list.
field	Column in the standard omop table that you want to add.
indexDate	Variable in x that contains the date to compute the intersection.
censorDate	Whether to censor overlap events at a date column of x
window	Window to consider events in.
targetDate	Event date to use for the intersection.
order	'last' or 'first' to refer to which event consider if multiple events are present in the same window.
inObservation	If TRUE only records inside an observation period will be considered.
allowDuplicates	Whether to allow multiple records with same conceptSet, person_id and targetDate. If switched to TRUE, it can have a different and unpredictable behavior depending on the cdm_source.
nameStyle	naming of the added column or columns, should include required parameters.
name	Name of the new table, if NULL a temporary table is returned.

Value

Table with the 'field' value obtained from the intersection

Examples

```
library(PatientProfiles)
cdm <- mockPatientProfiles()
concept <- dplyr::tibble(
  concept_id = c(1125315),
  domain_id = "Drug",
  vocabulary_id = NA_character_,
  concept_class_id = "Ingredient",
  standard_concept = "S",
  concept_code = NA_character_,
  valid_start_date = as.Date("1900-01-01"),
  valid_end_date = as.Date("2099-01-01"),
  invalid_reason = NA_character_
) |>
  dplyr::mutate(concept_name = paste0("concept: ", .data$concept_id))
cdm <- CDMConnector::insertTable(cdm, "concept", concept)

cdm$cohort1 |>
  addConceptIntersectField(
```

```
    conceptSet = list("acetaminophen" = 1125315),
    field = "drug_type_concept_id"
  )

mockDisconnect(cdm = cdm)
```

---

addConceptIntersectFlag *It creates column to indicate the flag overlap information between a table and a concept*

Description

It creates column to indicate the flag overlap information between a table and a concept

Usage

```
addConceptIntersectFlag(
  x,
  conceptSet,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  window = list(c(0, Inf)),
  targetStartDate = "event_start_date",
  targetEndDate = "event_end_date",
  inObservation = TRUE,
  nameStyle = "{concept_name}_{window_name}",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
conceptSet	Concept set list.
indexDate	Variable in x that contains the date to compute the intersection.
censorDate	whether to censor overlap events at a date column of x
window	window to consider events in.
targetStartDate	Event start date to use for the intersection.
targetEndDate	Event end date to use for the intersection.
inObservation	If TRUE only records inside an observation period will be considered.
nameStyle	naming of the added column or columns, should include required parameters.
name	Name of the new table, if NULL a temporary table is returned.

Value

table with added columns with overlap information

Examples

```
library(PatientProfiles)
cdm <- mockPatientProfiles()
concept <- dplyr::tibble(
  concept_id = c(1125315),
  domain_id = "Drug",
  vocabulary_id = NA_character_,
  concept_class_id = "Ingredient",
  standard_concept = "S",
  concept_code = NA_character_,
  valid_start_date = as.Date("1900-01-01"),
  valid_end_date = as.Date("2099-01-01"),
  invalid_reason = NA_character_
) |>
  dplyr::mutate(concept_name = paste0("concept: ", .data$concept_id))
cdm <- CDMConnector::insertTable(cdm, "concept", concept)

cdm$cohort1 |>
  addConceptIntersectFlag(conceptSet = list("acetaminophen" = 1125315))

mockDisconnect(cdm = cdm)
```

---

addConceptName *Add concept name for each concept_id*

Description

Add concept name for each concept_id

Usage

```
addConceptName(table, column = NULL, nameStyle = "{column}_name")
```

Arguments

table	cdm_table that contains column.
column	Column to add the concept names from. If NULL any column that its name ends with 'concept_id' will be used.
nameStyle	Name of the new column.

Value

table with an extra column with the concept names.

Examples

```
library(PatientProfiles)
library(duckdb)
library(CDMConnector)
library(dplyr, warn.conflicts = FALSE)

dbName <- "GiBleed"
requireEunomia(datasetName = dbName)
con <- dbConnect(drv = duckdb(dbdir = eunomiaDir(datasetName = dbName)))
cdm <- cdmFromCon(con = con, cdmSchema = "main", writeSchema = "main")

cdm$drug_exposure |>
  addConceptName(column = "drug_concept_id", nameStyle = "drug_name") |>
  glimpse()

cdm$drug_exposure |>
  addConceptName() |>
  glimpse()
```

---

addDateOfBirth *Add a column with the individual birth date*

Description

Add a column with the individual birth date

Usage

```
addDateOfBirth(
  x,
  dateOfBirthName = "date_of_birth",
  missingDay = 1,
  missingMonth = 1,
  imposeDay = FALSE,
  imposeMonth = FALSE,
  name = NULL
)
```

Arguments

x	Table in the cdm that contains 'person_id' or 'subject_id'.
dateOfBirthName	Name of the column to be added with the date of birth.
missingDay	Day of the individuals with no or imposed day of birth.
missingMonth	Month of the individuals with no or imposed month of birth.

imposeDay	Whether to impose day of birth.
imposeMonth	Whether to impose month of birth.
name	Name of the new table, if NULL a temporary table is returned.

Value

The function returns the table x with an extra column that contains the date of birth.

Examples

```
library(PatientProfiles)
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addDateOfBirth()

mockDisconnect(cdm = cdm)
```

---

addDateOfBirthQuery *Query to add a column with the individual birth date*

Description

‘r lifecycle::badge("experimental")‘ Same as ‘addDateOfBirth()‘, except query is not computed to a table.

Usage

```
addDateOfBirthQuery(
  x,
  dateOfBirthName = "date_of_birth",
  missingDay = 1,
  missingMonth = 1,
  imposeDay = FALSE,
  imposeMonth = FALSE
)
```

Arguments

x	Table in the cdm that contains ’person_id’ or ’subject_id’.
dateOfBirthName	Name of the column to be added with the date of birth.
missingDay	Day of the individuals with no or imposed day of birth.
missingMonth	Month of the individuals with no or imposed month of birth.
imposeDay	Whether to impose day of birth.
imposeMonth	Whether to impose month of birth.

Value

The function returns the table x with an extra column that contains the date of birth.

Examples

```
library(PatientProfiles)
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addDateOfBirthQuery()

mockDisconnect(cdm = cdm)
```

`addDeathDate` *Add date of death for individuals. Only death within the same observation period than 'indexDate' will be observed.*

Description

Add date of death for individuals. Only death within the same observation period than 'indexDate' will be observed.

Usage

```
addDeathDate(
  x,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  window = c(0, Inf),
  deathDateName = "date_of_death",
  name = NULL
)
```

Arguments

`x`	Table with individuals in the cdm.
`indexDate`	Variable in x that contains the window origin.
`censorDate`	Name of a column to stop followup.
`window`	window to consider events over.
`deathDateName`	name of the new column to be added.
`name`	Name of the new table, if NULL a temporary table is returned.

Value

table x with the added column with death information added.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addDeathDate()

mockDisconnect(cdm = cdm)
```

`addDeathDays` *Add days to death for individuals. Only death within the same observation period than 'indexDate' will be observed.*

Description

Add days to death for individuals. Only death within the same observation period than 'indexDate' will be observed.

Usage

```
addDeathDays(
  x,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  window = c(0, Inf),
  deathDaysName = "days_to_death",
  name = NULL
)
```

Arguments

`x`	Table with individuals in the cdm.
`indexDate`	Variable in x that contains the window origin.
`censorDate`	Name of a column to stop followup.
`window`	window to consider events over.
`deathDaysName`	name of the new column to be added.
`name`	Name of the new table, if NULL a temporary table is returned.

Value

table x with the added column with death information added.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addDeathDays()

mockDisconnect(cdm = cdm)
```

`addDeathFlag` *Add flag for death for individuals. Only death within the same observation period than 'indexDate' will be observed.*

Description

Add flag for death for individuals. Only death within the same observation period than 'indexDate' will be observed.

Usage

```
addDeathFlag(
  x,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  window = c(0, Inf),
  deathFlagName = "death",
  name = NULL
)
```

Arguments

`x`	Table with individuals in the cdm.
`indexDate`	Variable in x that contains the window origin.
`censorDate`	Name of a column to stop followup.
`window`	window to consider events over.
`deathFlagName`	name of the new column to be added.
`name`	Name of the new table, if NULL a temporary table is returned.

Value

table x with the added column with death information added.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addDeathFlag()

mockDisconnect(cdm = cdm)
```

`addDemographics` *Compute demographic characteristics at a certain date*

Description

Compute demographic characteristics at a certain date

Usage

```
addDemographics(
  x,
  indexDate = "cohort_start_date",
  age = TRUE,
  ageName = "age",
  ageMissingMonth = 1,
  ageMissingDay = 1,
  ageImposeMonth = FALSE,
  ageImposeDay = FALSE,
  ageGroup = NULL,
  missingAgeGroupValue = "None",
  sex = TRUE,
  sexName = "sex",
  missingSexValue = "None",
  priorObservation = TRUE,
  priorObservationName = "prior_observation",
  priorObservationType = "days",
  futureObservation = TRUE,
  futureObservationName = "future_observation",
  futureObservationType = "days",
  dateOfBirth = FALSE,
  dateOfBirthName = "date_of_birth",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.

indexDate	Variable in x that contains the date to compute the demographics characteristics.
age	TRUE or FALSE. If TRUE, age will be calculated relative to indexDate.
ageName	Age variable name.
ageMissingMonth	Month of the year assigned to individuals with missing month of birth.
ageMissingDay	day of the month assigned to individuals with missing day of birth.
ageImposeMonth	TRUE or FALSE. Whether the month of the date of birth will be considered as missing for all the individuals.
ageImposeDay	TRUE or FALSE. Whether the day of the date of birth will be considered as missing for all the individuals.
ageGroup	if not NULL, a list of ageGroup vectors.
missingAgeGroupValue	Value to include if missing age.
sex	TRUE or FALSE. If TRUE, sex will be identified.
sexName	Sex variable name.
missingSexValue	Value to include if missing sex.
priorObservation	TRUE or FALSE. If TRUE, days of between the start of the current observation period and the indexDate will be calculated.
priorObservationName	Prior observation variable name.
priorObservationType	Whether to return a "date" or the number of "days".
futureObservation	TRUE or FALSE. If TRUE, days between the indexDate and the end of the current observation period will be calculated.
futureObservationName	Future observation variable name.
futureObservationType	Whether to return a "date" or the number of "days".
dateOfBirth	TRUE or FALSE, if true the date of birth will be return.
dateOfBirthName	dateOfBirth column name.
name	Name of the new table, if NULL a temporary table is returned.

Value

cohort table with the added demographic information columns.

Examples

```
library(PatientProfiles)
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addDemographics()

mockDisconnect(cdm = cdm)
```

---

addDemographicsQuery *Query to add demographic characteristics at a certain date*

Description

‘r lifecycle::badge("experimental")‘ Same as ‘addDemographics()‘, except query is not computed to a table.

Usage

```
addDemographicsQuery(
  x,
  indexDate = "cohort_start_date",
  age = TRUE,
  ageName = "age",
  ageMissingMonth = 1,
  ageMissingDay = 1,
  ageImposeMonth = FALSE,
  ageImposeDay = FALSE,
  ageGroup = NULL,
  missingAgeGroupValue = "None",
  sex = TRUE,
  sexName = "sex",
  missingSexValue = "None",
  priorObservation = TRUE,
  priorObservationName = "prior_observation",
  priorObservationType = "days",
  futureObservation = TRUE,
  futureObservationName = "future_observation",
  futureObservationType = "days",
  dateOfBirth = FALSE,
  dateOfBirthName = "date_of_birth"
)
```

Arguments

x	Table with individuals in the cdm.
indexDate	Variable in x that contains the date to compute the demographics characteristics.
age	TRUE or FALSE. If TRUE, age will be calculated relative to indexDate.
ageName	Age variable name.
ageMissingMonth	Month of the year assigned to individuals with missing month of birth.
ageMissingDay	day of the month assigned to individuals with missing day of birth.
ageImposeMonth	TRUE or FALSE. Whether the month of the date of birth will be considered as missing for all the individuals.
ageImposeDay	TRUE or FALSE. Whether the day of the date of birth will be considered as missing for all the individuals.
ageGroup	if not NULL, a list of ageGroup vectors.
missingAgeGroupValue	Value to include if missing age.
sex	TRUE or FALSE. If TRUE, sex will be identified.
sexName	Sex variable name.
missingSexValue	Value to include if missing sex.
priorObservation	TRUE or FALSE. If TRUE, days of between the start of the current observation period and the indexDate will be calculated.
priorObservationName	Prior observation variable name.
priorObservationType	Whether to return a "date" or the number of "days".
futureObservation	TRUE or FALSE. If TRUE, days between the indexDate and the end of the current observation period will be calculated.
futureObservationName	Future observation variable name.
futureObservationType	Whether to return a "date" or the number of "days".
dateOfBirth	TRUE or FALSE, if true the date of birth will be return.
dateOfBirthName	dateOfBirth column name.

Value

cohort table with the added demographic information columns.

Examples

```
library(PatientProfiles)
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addDemographicsQuery()

mockDisconnect(cdm = cdm)
```

`addFutureObservation` *Compute the number of days till the end of the observation period at a certain date*

Description

Compute the number of days till the end of the observation period at a certain date

Usage

```
addFutureObservation(
  x,
  indexDate = "cohort_start_date",
  futureObservationName = "future_observation",
  futureObservationType = "days",
  name = NULL
)
```

Arguments

`x`	Table with individuals in the cdm.
`indexDate`	Variable in x that contains the date to compute the future observation.
`futureObservationName`	name of the new column to be added.
`futureObservationType`	Whether to return a "date" or the number of "days".
`name`	Name of the new table, if NULL a temporary table is returned.

Value

cohort table with added column containing future observation of the individuals.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addFutureObservation()

mockDisconnect(cdm = cdm)
```

`addFutureObservationQuery` *Query to add the number of days till the end of the observation period at a certain date*

Description

‘r lifecycle::badge("experimental")‘ Same as ‘addFutureObservation()‘, except query is not computed to a table.

Usage

```
addFutureObservationQuery(
  x,
  indexDate = "cohort_start_date",
  futureObservationName = "future_observation",
  futureObservationType = "days"
)
```

Arguments

`x`	Table with individuals in the cdm.
`indexDate`	Variable in x that contains the date to compute the future observation.
`futureObservationName`	name of the new column to be added.
`futureObservationType`	Whether to return a "date" or the number of "days".

Value

cohort table with added column containing future observation of the individuals.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addFutureObservationQuery()
```

```
mockDisconnect(cdm = cdm)
```

---

addInObservation *Indicate if a certain record is within the observation period*

Description

Indicate if a certain record is within the observation period

Usage

```
addInObservation(
  x,
  indexDate = "cohort_start_date",
  window = c(0, 0),
  completeInterval = FALSE,
  nameStyle = "in_observation",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
indexDate	Variable in x that contains the date to compute the observation flag.
window	window to consider events of.
completeInterval	If the individuals are in observation for the full window.
nameStyle	Name of the new columns to create, it must contain "window_name" if multiple windows are provided.
name	Name of the new table, if NULL a temporary table is returned.

Value

cohort table with the added binary column assessing inObservation.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addInObservation()

mockDisconnect(cdm = cdm)
```

addInObservationQuery *Query to add a new column to indicate if a certain record is within the observation period*

Description

‘r lifecycle::badge("experimental")‘ Same as ‘addInObservation()‘, except query is not computed to a table.

Usage

```
addInObservationQuery(
  x,
  indexDate = "cohort_start_date",
  window = c(0, 0),
  completeInterval = FALSE,
  nameStyle = "in_observation"
)
```

Arguments

x	Table with individuals in the cdm.
indexDate	Variable in x that contains the date to compute the observation flag.
window	window to consider events of.
completeInterval	If the individuals are in observation for the full window.
nameStyle	Name of the new columns to create, it must contain "window_name" if multiple windows are provided.

Value

cohort table with the added binary column assessing inObservation.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addInObservationQuery()

mockDisconnect(cdm = cdm)
```

addObservationPeriodId *Add the ordinal number of the observation period associated that a given date is in.*

Description

Add the ordinal number of the observation period associated that a given date is in.

Usage

```
addObservationPeriodId(
  x,
  indexDate = "cohort_start_date",
  nameObservationPeriodId = "observation_period_id",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
indexDate	Variable in x that contains the date to compute the observation flag.
nameObservationPeriodId	Name of the new column.
name	Name of the new table, if NULL a temporary table is returned.

Value

Table with the current observation period id added.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addObservationPeriodId()

mockDisconnect(cdm = cdm)
```

`addObservationPeriodIdQuery` *Add the ordinal number of the observation period associated that a given date is in. Result is not computed, only query is added.*

Description

Add the ordinal number of the observation period associated that a given date is in. Result is not computed, only query is added.

Usage

```
addObservationPeriodIdQuery(
  x,
  indexDate = "cohort_start_date",
  nameObservationPeriodId = "observation_period_id"
)
```

Arguments

`x`	Table with individuals in the cdm.
`indexDate`	Variable in x that contains the date to compute the observation flag.
`nameObservationPeriodId`	Name of the new column.

Value

Table with the current observation period id added.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addObservationPeriodIdQuery()

mockDisconnect(cdm = cdm)
```

addPriorObservation *Compute the number of days of prior observation in the current observation period at a certain date*

Description

Compute the number of days of prior observation in the current observation period at a certain date

Usage

```
addPriorObservation(
  x,
  indexDate = "cohort_start_date",
  priorObservationName = "prior_observation",
  priorObservationType = "days",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
indexDate	Variable in x that contains the date to compute the prior observation.
priorObservationName	name of the new column to be added.
priorObservationType	Whether to return a "date" or the number of "days".
name	Name of the new table, if NULL a temporary table is returned.

Value

cohort table with added column containing prior observation of the individuals.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addPriorObservation()

mockDisconnect(cdm = cdm)
```

`addPriorObservationQuery` *Query to add the number of days of prior observation in the current observation period at a certain date*

Description

‘r lifecycle::badge("experimental")‘ Same as ‘addPriorObservation()‘, except query is not computed to a table.

Usage

```
addPriorObservationQuery(
  x,
  indexDate = "cohort_start_date",
  priorObservationName = "prior_observation",
  priorObservationType = "days"
)
```

Arguments

`x`	Table with individuals in the cdm.
`indexDate`	Variable in x that contains the date to compute the prior observation.
`priorObservationName`	name of the new column to be added.
`priorObservationType`	Whether to return a "date" or the number of "days".

Value

cohort table with added column containing prior observation of the individuals.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addPriorObservationQuery()

mockDisconnect(cdm = cdm)
```

addSex *Compute the sex of the individuals*

Description

Compute the sex of the individuals

Usage

```
addSex(x, sexName = "sex", missingSexValue = "None", name = NULL)
```

Arguments

x	Table with individuals in the cdm.
sexName	name of the new column to be added.
missingSexValue	Value to include if missing sex.
name	Name of the new table, if NULL a temporary table is returned.

Value

table x with the added column with sex information.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addSex()

mockDisconnect(cdm = cdm)
```

addSexQuery *Query to add the sex of the individuals*

Description

‘r lifecycle::badge("experimental")‘ Same as ‘addSex()‘, except query is not computed to a table.

Usage

```
addSexQuery(x, sexName = "sex", missingSexValue = "None")
```

Arguments

x	Table with individuals in the cdm.
sexName	name of the new column to be added.
missingSexValue	Value to include if missing sex.

Value

table x with the added column with sex information.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addSexQuery()

mockDisconnect(cdm = cdm)
```

---

addTableIntersectCount

Compute number of intersect with an omop table.

Description

Compute number of intersect with an omop table.

Usage

```
addTableIntersectCount(
  x,
  tableName,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  window = list(c(0, Inf)),
  targetStartDate = startDateColumn(tableName),
  targetEndDate = endDateColumn(tableName),
  inObservation = TRUE,
  nameStyle = "{table_name}_{window_name}",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
tableName	Name of the table to intersect with. Options: visit_occurrence, condition_occurrence, drug_exposure, procedure_occurrence, device_exposure, measurement, observation, drug_era, condition_era, specimen, episode.
indexDate	Variable in x that contains the date to compute the intersection.
censorDate	whether to censor overlap events at a specific date or a column date of x.
window	window to consider events in.
targetStartDate	Column name with start date for comparison.
targetEndDate	Column name with end date for comparison.
inObservation	If TRUE only records inside an observation period will be considered.
nameStyle	naming of the added column or columns, should include required parameters.
name	Name of the new table, if NULL a temporary table is returned.

Value

table with added columns with intersect information.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addTableIntersectCount(tableName = "visit_occurrence")

mockDisconnect(cdm = cdm)
```

---

addTableIntersectDate *Compute date of intersect with an omop table.*

Description

Compute date of intersect with an omop table.

Usage

```
addTableIntersectDate(
  x,
  tableName,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  window = list(c(0, Inf)),
```

```
  targetDate = startDateColumn(tableName),
  inObservation = TRUE,
  order = "first",
  nameStyle = "{table_name}_{window_name}",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
tableName	Name of the table to intersect with. Options: visit_occurrence, condition_occurrence, drug_exposure, procedure_occurrence, device_exposure, measurement, observation, drug_era, condition_era, specimen, episode.
indexDate	Variable in x that contains the date to compute the intersection.
censorDate	whether to censor overlap events at a specific date or a column date of x.
window	window to consider events in.
targetDate	Target date in tableName.
inObservation	If TRUE only records inside an observation period will be considered.
order	which record is considered in case of multiple records (only required for date and days options).
nameStyle	naming of the added column or columns, should include required parameters.
name	Name of the new table, if NULL a temporary table is returned.

Value

table with added columns with intersect information.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addTableIntersectDate(tableName = "visit_occurrence")

mockDisconnect(cdm = cdm)
```

---

addTableIntersectDays *Compute time to intersect with an omop table.*

Description

Compute time to intersect with an omop table.

Usage

```
addTableIntersectDays(
  x,
  tableName,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  window = list(c(0, Inf)),
  targetDate = startDateColumn(tableName),
  inObservation = TRUE,
  order = "first",
  nameStyle = "{table_name}_{window_name}",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
tableName	Name of the table to intersect with. Options: visit_occurrence, condition_occurrence, drug_exposure, procedure_occurrence, device_exposure, measurement, observation, drug_era, condition_era, specimen, episode.
indexDate	Variable in x that contains the date to compute the intersection.
censorDate	whether to censor overlap events at a specific date or a column date of x.
window	window to consider events in.
targetDate	Target date in tableName.
inObservation	If TRUE only records inside an observation period will be considered.
order	which record is considered in case of multiple records (only required for date and days options).
nameStyle	naming of the added column or columns, should include required parameters.
name	Name of the new table, if NULL a temporary table is returned.

Value

table with added columns with intersect information.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addTableIntersectDays(tableName = "visit_occurrence")

mockDisconnect(cdm = cdm)
```

addTableIntersectField

Intersecting the cohort with columns of an OMOP table of user's choice. It will add an extra column to the cohort, indicating the intersected entries with the target columns in a window of the user's choice.

Description

Intersecting the cohort with columns of an OMOP table of user's choice. It will add an extra column to the cohort, indicating the intersected entries with the target columns in a window of the user's choice.

Usage

```
addTableIntersectField(
  x,
  tableName,
  field,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  window = list(c(0, Inf)),
  targetDate = startDateColumn(tableName),
  inObservation = TRUE,
  order = "first",
  allowDuplicates = FALSE,
  nameStyle = "{table_name}_{extra_value}_{window_name}",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
tableName	Name of the table to intersect with. Options: visit_occurrence, condition_occurrence, drug_exposure, procedure_occurrence, device_exposure, measurement, observation, drug_era, condition_era, specimen, episode.
field	The columns from the table in tableName to intersect over. For example, if the user uses visit_occurrence in tableName then for field the possible options include visit_occurrence_id, visit_concept_id, visit_type_concept_id.
indexDate	Variable in x that contains the date to compute the intersection.
censorDate	whether to censor overlap events at a specific date or a column date of x.
window	window to consider events in when intersecting with the chosen column.
targetDate	The dates in the target columns in tableName that the user may want to restrict to.
inObservation	If TRUE only records inside an observation period will be considered.

order	which record is considered in case of multiple records (only required for date and days options).
allowDuplicates	Whether to allow multiple records with same conceptSet, person_id and targetDate. If switched to TRUE, it can have a different and unpredictable behavior depending on the cdm_source.
nameStyle	naming of the added column or columns, should include required parameters.
name	Name of the new table, if NULL a temporary table is returned.

Value

table with added columns with intersect information.

Examples

```
cdm <- mockPatientProfiles()
cdm$cohort1 |>
  addTableIntersectField(
    tableName = "visit_occurrence",
    field = "visit_concept_id",
    order = "last",
    window = c(-Inf, -1)
  )
mockDisconnect(cdm = cdm)
```

---

addTableIntersectFlag *Compute a flag intersect with an omop table.*

Description

Compute a flag intersect with an omop table.

Usage

```
addTableIntersectFlag(
  x,
  tableName,
  indexDate = "cohort_start_date",
  censorDate = NULL,
  window = list(c(0, Inf)),
  targetStartDate = startDateColumn(tableName),
  targetEndDate = endDateColumn(tableName),
  inObservation = TRUE,
  nameStyle = "{table_name}_{window_name}",
  name = NULL
)
```

Arguments

x	Table with individuals in the cdm.
tableName	Name of the table to intersect with. Options: visit_occurrence, condition_occurrence, drug_exposure, procedure_occurrence, device_exposure, measurement, observation, drug_era, condition_era, specimen, episode.
indexDate	Variable in x that contains the date to compute the intersection.
censorDate	whether to censor overlap events at a specific date or a column date of x.
window	window to consider events in.
targetStartDate	Column name with start date for comparison.
targetEndDate	Column name with end date for comparison.
inObservation	If TRUE only records inside an observation period will be considered.
nameStyle	naming of the added column or columns, should include required parameters.
name	Name of the new table, if NULL a temporary table is returned.

Value

table with added columns with intersect information.

Examples

```
cdm <- mockPatientProfiles()

cdm$cohort1 |>
  addTableIntersectFlag(tableName = "visit_occurrence")

mockDisconnect(cdm = cdm)
```

---

availableEstimates *Show the available estimates that can be used for the different variable_type supported.*

Description

Show the available estimates that can be used for the different variable_type supported.

Usage

```
availableEstimates(variableType = NULL, fullQuantiles = FALSE)
```

Arguments

variableType	A set of variable types.
fullQuantiles	Whether to display the exact quantiles that can be computed or only the qXX to summarise all of them.

Value

A tibble with the available estimates.

Examples

```
library(PatientProfiles)

availableEstimates()
availableEstimates("numeric")
availableEstimates(c("numeric", "categorical"))
```

`benchmarkPatientProfiles` *Benchmark intersections and demographics functions for a certain source (cdm).*

Description

Benchmark intersections and demographics functions for a certain source (cdm).

Usage

```
benchmarkPatientProfiles(cdm, n = 50000, iterations = 1)
```

Arguments

`cdm`	A cdm_reference object.
`n`	Size of the synthetic cohorts used to benchmark.
`iterations`	Number of iterations to run the benchmark.

Value

A summarise_result object with the summary statistics.

endDateColumn *Get the name of the end date column for a certain table in the cdm*

Description

Get the name of the end date column for a certain table in the cdm

Usage

```
endDateColumn(tableName)
```

Arguments

tableName	Name of the table.

Value

Name of the end date column in that table.

Examples

```
library(PatientProfiles)
endDateColumn("condition_occurrence")
```

filterCohortId *Filter a cohort according to cohort_definition_id column, the result is not computed into a table. only a query is added. Used usually as internal functions of other packages.*

Description

Filter a cohort according to cohort_definition_id column, the result is not computed into a table. only a query is added. Used usually as internal functions of other packages.

Usage

```
filterCohortId(cohort, cohortId = NULL)
```

Arguments

cohort	A ‘cohort_table‘ object.
cohortId	A vector with cohort ids.

Value

A ‘cohort_table‘ object.

`filterInObservation` *Filter the rows of a 'cdm_table' to the ones in observation that 'indexDate' is in observation.*

Description

Filter the rows of a 'cdm_table' to the ones in observation that 'indexDate' is in observation.

Usage

```
filterInObservation(x, indexDate)
```

Arguments

`x`	A 'cdm_table' object.
`indexDate`	Name of a column of x that is a date.

Value

A 'cdm_table' that is a subset of the original table.

Examples

```
## Not run:
con <- duckdb::dbConnect(duckdb::duckdb(CDMConnector::eunomiaDir()))
cdm <- CDMConnector::cdmFromCon(
  con = con, cdmSchema = "main", writeSchema = "main"
)

cdm$condition_occurrence |>
  filterInObservation(indexDate = "condition_start_date") |>
  dplyr::compute()

## End(Not run)
```

`mockDisconnect` *Function to disconnect from the mock*

Description

Function to disconnect from the mock

Usage

```
mockDisconnect(cdm)
```

Arguments

cdm	A cdm_reference object.

`mockPatientProfiles` *It creates a mock database for testing PatientProfiles package*

Description

It creates a mock database for testing PatientProfiles package

Usage

```
mockPatientProfiles(
  con = NULL,
  writeSchema = NULL,
  numberIndividuals = 10,
  ...,
  seed = NULL
)
```

Arguments

con	A DBI connection to create the cdm mock object.
writeSchema	Name of an schema on the same connection with writing permisions.
numberIndividuals	Number of individuals to create in the cdm reference.
...	User self defined tables to put in cdm, it can input as many as the user want.
seed	A number to set the seed. If NULL seed is not used.

Value

A mock cdm_reference object created following user's specifications.

Examples

```
library(PatientProfiles)
library(CDMConnector)

cdm <- mockPatientProfiles()

mockDisconnect(cdm = cdm)
```

sourceConceptIdColumn *Get the name of the source concept_id column for a certain table in the cdm*

Description

Get the name of the source concept_id column for a certain table in the cdm

Usage

```
sourceConceptIdColumn(tableName)
```

Arguments

tableName	Name of the table.

Value

Name of the source_concept_id column in that table.

Examples

```
library(PatientProfiles)
sourceConceptIdColumn("condition_occurrence")
```

standardConceptIdColumn *Get the name of the standard concept_id column for a certain table in the cdm*

Description

Get the name of the standard concept_id column for a certain table in the cdm

Usage

```
standardConceptIdColumn(tableName)
```

Arguments

tableName	Name of the table.

Value

Name of the concept_id column in that table.

Examples

```
library(PatientProfiles)
standardConceptIdColumn("condition_occurrence")
```

`startDateColumn` *Get the name of the start date column for a certain table in the cdm*

Description

Get the name of the start date column for a certain table in the cdm

Usage

```
startDateColumn(tableName)
```

Arguments

`tableName`	Name of the table.

Value

Name of the start date column in that table.

Examples

```
library(PatientProfiles)
startDateColumn("condition_occurrence")
```

`summariseResult` *Summarise variables using a set of estimate functions. The output will be a formatted summarised_result object.*

Description

Summarise variables using a set of estimate functions. The output will be a formatted summarised_result object.

Usage

```
summariseResult(
  table,
  group = list(),
  includeOverallGroup = FALSE,
  strata = list(),
  includeOverallStrata = TRUE,
  variables = NULL,
  estimates = c("min", "q25", "median", "q75", "max", "count", "percentage"),
  counts = TRUE,
  weights = NULL
)
```

Arguments

table	Table with different records.
group	List of groups to be considered.
includeOverallGroup	TRUE or FALSE. If TRUE, results for an overall group will be reported when a list of groups has been specified.
strata	List of the stratifications within each group to be considered.
includeOverallStrata	TRUE or FALSE. If TRUE, results for an overall strata will be reported when a list of strata has been specified.
variables	Variables to summarise, it can be a list to point to different set of estimate names.
estimates	Estimates to obtain, it can be a list to point to different set of variables.
counts	Whether to compute number of records and number of subjects.
weights	Name of the column in the table that contains the weights to be used when measuring the estimates.

Value

A summarised_result object with the summarised data of interest.

Examples

```
library(PatientProfiles)
library(dplyr)

cdm <- mockPatientProfiles()
x <- cdm$cohort1 |>
  addDemographics() |>
  collect()
result <- summariseResult(x)
mockDisconnect(cdm = cdm)
```

`variableTypes` *Classify the variables between 5 types: "numeric", "categorical", "binary", "date", or NA.*

Description

Classify the variables between 5 types: "numeric", "categorical", "binary", "date", or NA.

Usage

```
variableTypes(table)
```

Arguments

`table`	Tibble.

Value

Tibble with the variables type and classification.

Examples

```
library(PatientProfiles)
x <- dplyr::tibble(
  person_id = c(1, 2),
  start_date = as.Date(c("2020-05-02", "2021-11-19")),
  asthma = c(0, 1)
)
variableTypes(x)
```

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