

Package ‘CohortPathways’

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Type Package

Title Create Pathways from Target to Event Cohorts

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Description This software tool is designed to compute the temporal relationship defined as pathways between any two instantiated cohorts. The cohorts are input as Target and event cohorts.

Depends DatabaseConnector (>= 5.0.0),
R (>= 4.1.0)

Imports checkmate,
dplyr,
lifecycle,
rlang,
SqlRender,
tidyr

Suggests remotes,
testthat,
withr

License Apache License

RoxygenNote 7.2.3

Roxygen list(markdown = TRUE)

Encoding UTF-8

Language en-US

URL <https://github.com/OHDSI/CohortPathways>

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

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executeCohortPathways *Execute cohort pathway analysis.*

Description

Runs the cohort pathways on all instantiated combinations of target and event cohorts. Assumes the cohorts have already been instantiated.

Usage

```
executeCohortPathways(
  connectionDetails = NULL,
  connection = NULL,
  cohortDatabaseSchema,
  cohortTableName = "cohort",
  tempEmulationSchema = getOption("sqlRenderTempEmulationSchema"),
  targetCohortIds,
  eventCohortIds,
  minCellCount = 5,
  allowRepeats = FALSE,
  maxDepth = 5,
  collapseWindow = 30
)
```

Arguments

- | | |
|----------------------|--|
| connectionDetails | An object of type connectionDetails as created using the createConnectionDetails function in the DatabaseConnector package. Can be left NULL if connection is provided. |
| connection | An object of type connection as created using the connect function in the DatabaseConnector package. Can be left NULL if connectionDetails is provided, in which case a new connection will be opened at the start of the function, and closed when the function finishes. |
| cohortDatabaseSchema | Schema name where your cohort tables reside. Note that for SQL Server, this should include both the database and schema name, for example 'scratch.dbo'. |
| cohortTableName | The name of the cohort table. |
| tempEmulationSchema | Some database platforms like Oracle and Impala do not truly support temp tables. To emulate temp tables, provide a schema with write privileges where temp tables can be created. |
| targetCohortIds | A vector of one or more Cohort Ids corresponding to target cohort (s). |
| eventCohortIds | A vector of one or more Cohort Ids corresponding to event cohort (s). |
| minCellCount | (Default = 5) The minimum cell count for fields contains person counts or fractions. |
| allowRepeats | (Default = FALSE) Allow cohort events/combo to appear multiple times in the same pathway. |

maxDepth (Default = 5) Maximum number of steps in a given pathway to be included in the sunburst plot

collapseWindow (Default = 30) Any dates found within the specified collapse days will be reassigned the earliest date. Collapsing dates reduces pathway variation, leading to a reduction in 'noise' in the result.

Value

An array of Data Frame objects.

Examples

```
## Not run:
connectionDetails <- createConnectionDetails(
  dbms = "postgresql",
  server = "ohdsi.com",
  port = 5432,
  user = "me",
  password = "secure"
)

executeCohortPathways(
  connectionDetails = connectionDetails,
  cohorts = cohorts,
  cohortDatabaseSchema = "results"
)

## End(Not run)
```

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