

Package ‘CohortPathways’

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Type Package

Title Create Pathways from Target to Event Cohorts

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Description Software tool 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 7.3.2

Encoding UTF-8

Language en-US

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

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

NeedsCompilation no

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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 <code>connectionDetails</code> as created using the createConnectionDetails function in the <code>DatabaseConnector</code> package. Can be left NULL if <code>connection</code> is provided.
connection	An object of type <code>connection</code> as created using the connect function in the <code>DatabaseConnector</code> package. Can be left NULL if <code>connectionDetails</code> 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).

<code>minCellCount</code>	(Default = 5) The minimum cell count for fields contains person counts or fractions.
<code>allowRepeats</code>	(Default = FALSE) Allow cohort events/combo to appear multiple times in the same pathway.
<code>maxDepth</code>	(Default = 5) Maximum number of steps in a given pathway to be included in the sunburst plot
<code>collapseWindow</code>	(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:  
  
executeCohortPathways(  
  connectionDetails = connectionDetails,  
  cohorts = cohorts,  
  cohortDatabaseSchema = "results"  
)  
  
## End(Not run)
```

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