Package 'CirceR'

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Type Package
Title Construct Cohort Inclusion and Restriction Criteria Expressions
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Description Wraps the 'CIRCE' (https://github.com/ohdsi/circe-be) 'Java' library allowing cohort definition expressions to be edited and converted to 'Markdown' or 'SQL'.
License Apache License 2.0
<pre>URL https://ohdsi.github.io/CirceR/, https://github.com/OHDSI/CirceR/</pre>
<pre>BugReports https://github.com/OHDSI/CirceR/issues/</pre>
SystemRequirements Java (>= 8)
Depends R (>= $3.5.0$)
Imports rJava, RJSONIO
Suggests testthat, knitr, rmarkdown
NeedsCompilation no
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R topics documented:
buildCohortQuery buildConceptSetQuery cohortDefinitionJson

8

 	 	 			 - 5
 	 	 			 5
 	 	 			 . 6
 	 	 			 . 6
 	 	 			 . 7

buildCohortQuery

Build cohort SQL

Description

Generates the OMOP CDM Sql to generate the cohort expression

Usage

Index

buildCohortQuery(expression, options)

Arguments

 $expression \\ \hline \qquad result of cohort Expression From Json containing the cohort expression.$

options The options built using createGenerateOptions()

Value

A character vector containing the OHDSI Sql for the cohort expression

buildConceptSetQuery Build conceptset SQL

Description

Generates the OMOP CDM Sql to resolve the concept set expression

Usage

buildConceptSetQuery(conceptSetJSON)

Arguments

conceptSetJSON a string containing the JSON for the conceptset expression.

Value

A character vector containing the OHDSI Sql for the conceptset expression

cohortDefinitionJson 3

cohortDefinitionJson An example cohort definition

Description

An example cohort definition

Usage

data(cohortDefinitionJson)

Format

A character vector containing a JSON string

Details

An example cohort expression in JSON format

 ${\tt cohortExpressionFromJson}$

Render read JSON into a CohortExpression instance

Description

Reads a String (json) and deserializes it into a org.ohdsi.circe.cohortdefinition.CohortExpression

Usage

cohortExpressionFromJson(expressionJson)

Arguments

expressionJson A character vector containing the cohort expression.

Value

A java instance of org.ohdsi.circe.cohortdefinition.CohortExpression.

cohortPrintFriendly Rea

Render cohort print-friendly

Description

Generates a print-friendly (human-readable) representation of the cohort definition. This can for example be used in a study protocol.

Usage

cohortPrintFriendly(expression)

Arguments

expression

A character vector or result of cohortExpressionFromJson containing the cohort expression.

Value

A character vector containing the markdown.

conceptSetExpressionFromJson

Render read JSON into a ConceptSetExpression instance

Description

Reads a String (json) and deserializes it into a org.ohdsi.circe.vocabulary.CohortExpression

Usage

 ${\tt conceptSetExpressionFromJson(expressionJson)}$

Arguments

expressionJson A character vector containing the cohort expression.

Value

A java instance of org.ohdsi.circe.cohortdefinition.CohortExpression.

conceptSetJson 5

conceptSetJson

An example concept set

Description

An example concept set

Usage

data(conceptSetJson)

Format

A character vector containing a JSON string

Details

An example concept set in JSON format

conceptSetListJson

An example concept set list

Description

An example concept set list

Usage

data(conceptSetListJson)

Format

A character vector containing a JSON string

Details

An example concept set list in JSON format

conceptSetListPrintFriendly

Render conceptSet array for print-friendly

Description

Generates a print-friendly (human-readable) representation of an array of concept sets. This can for example be used in a study protocol.

Usage

conceptSetListPrintFriendly(conceptSetList)

Arguments

conceptSetList A ConceptSet[] (from cohortExpression.conceptSets), a JSON string, or a list from RJSONIO::fromJson

Value

A character vector containing the markdown.

conceptSetPrintFriendly

Render conceptSet array for print-friendly

Description

Generates a print-friendly (human-readable) representation of a single concept set. This can for example be used in a study protocol.

Usage

conceptSetPrintFriendly(conceptSet)

Arguments

conceptSet

A ConceptSet (from cohortExpression.conceptSets[i]), a JSON string, or a list from RJSONIO::fromJson

Value

A character vector containing the markdown.

createGenerateOptions Create Generation Options

Description

Creates the generation options object for use in generateSql()

Usage

```
createGenerateOptions(
  cohortIdFieldName,
  cohortId,
  cdmSchema,
  targetTable,
  resultSchema,
  vocabularySchema,
  generateStats
)
```

Arguments

cohortIdFieldName

The field that contains the cohortId in the cohort table.

cohortId The generated cohort ID.

cdmSchema The value of the CDM schema.

targetTable the cohort table name.

resultSchema the schema the cohort table belongs to.

vocabularySchema

the schema of the vocabulary tables (defaults to cdmSchema)

generateStats a boolean representing if the query should include inclusion rule statistics cal-

culation

Value

A jObj that can be passed to generateSql().

Index