Package 'CirceR'

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Type Package

Title An R Wrapper for CIRCE

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Description An R wrapper around the CIRCE Java library, allowing cohort definition expressions to be edited, and converted to JSON or SQL.

License Apache License 2.0

VignetteBuilder knitr

URL https://ohdsi.github.io/CirceR, https://github.com/OHDSI/CirceR

BugReports https://github.com/OHDSI/CirceR/issues

Imports rJava,
RJSONIO

Suggests testthat,
knitr,
rmarkdown

NeedsCompilation no

RoxygenNote 7.1.1

Language en-US

Encoding UTF-8

R topics documented:

1

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buildCohortQuery   *Build cohort SQL*

Description

Generates the OMOP CDM Sql to generate the cohort expression

Usage

```
buildCohortQuery(expression, options)
```

Arguments

expression   result of cohortExpressionFromJson containing the cohort expression.

options   The options built using createGenerateOptions()

Value

A character vector containing the OHDSI Sql for the cohort expression

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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

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 RJSIONIO list representing the JSON structure.

cohortPrintFriendly   *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.

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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

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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.

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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