

Package: CirceR (via r-universe)

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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'.

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

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

SystemRequirements Java (>= 8)

Depends R (>= 3.5.0)

Imports rJava, RJSONIO

Suggests testthat, knitr, rmarkdown

NeedsCompilation no

RoxygenNote 7.3.1

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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

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

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.

conceptSetExpressionFromJson
 Render read JSON into a ConceptSetExpression instance

Description

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

Usage

```
conceptSetExpressionFromJson(expressionJson)
```

Arguments

expressionJson A character vector containing the cohort expression.

Value

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

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 calculation

Value

A jObj that can be passed to generateSql().

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