

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
URL <https://ohdsi.github.io/CirceR/>, <https://github.com/OHDSI/CirceR/>
BugReports <https://github.com/OHDSI/CirceR/issues/>
SystemRequirements Java (>= 8)
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Imports rJava, RJSONIO
Suggests testthat, knitr, rmarkdown
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buildCohortQuery	<i>Build cohort SQL</i>
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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	<i>Build conceptset SQL</i>
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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	<i>An example concept set</i>
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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	<i>An example concept set list</i>
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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

<code>cohortIdFieldName</code>	The field that contains the <code>cohortId</code> in the cohort table.
<code>cohortId</code>	The generated cohort ID.
<code>cdmSchema</code>	The value of the CDM schema.
<code>targetTable</code>	the cohort table name.
<code>resultSchema</code>	the schema the cohort table belongs to.
<code>vocabularySchema</code>	the schema of the vocabulary tables (defaults to <code>cdmSchema</code>)
<code>generateStats</code>	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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