

# Package: CirceR (via r-universe)

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**Type** Package

**Title** Construct Cohort Inclusion and Restriction Criteria Expressions

**Version** 1.3.3

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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)

**Depends** R (>= 3.5.0)

**Imports** rJava, RJSONIO

**Suggests** testthat, knitr, rmarkdown

**NeedsCompilation** no

**RoxygenNote** 7.3.1

**Language** en-US

**Encoding** UTF-8

**Repository** <https://ohdsi.r-universe.dev>

**RemoteUrl** <https://github.com/ohdsi/circe>

**RemoteRef** HEAD

**RemoteSha** 30303ec28bfd3bd4deffc9f84e7b8f9ddb93c77

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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` *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**

<code>conceptSet</code>	A ConceptSet (from <code>cohortExpression.conceptSets[i]</code> ), a JSON string, or a list from <code>RJSONIO::fromJson</code>
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**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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