# Package 'OhdsiRTools'

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Title Tools Used by Observational Health Data Science and Informatics (OHDSI)
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Description  Includes functions to format and check syntax of R code and packages following the 'OHDSI' R style guidelines. Generate renv lock files for OHDSI study packages.
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<b>Depends</b> R ( $>= 3.1.0$ ),
Imports remotes,     codetools,     formatR,     RJSONIO,     httr (>= 1.3.1),     openxlsx (>= 4.0.17),     methods,     utils
Suggests testthat
<pre>URL http://ohdsi.github.io/OhdsiRTools/, https://github.com/OHDSI/OhdsiRTools</pre>
BugReports https://github.com/OHDSI/OhdsiRTools/issues NeedsCompilation no RoxygenNote 7.1.1 Encoding UTF-8
R topics documented:
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Description

checkUsagePackage

Check all code in a package

### Usage

```
checkUsagePackage(
  package,
  ignoreHiddenFunctions = TRUE,
  suppressBindingKeywords = c("ggplot2", "ffwhich", "subset.ffdf", "glm")
)
```

### Arguments

```
package The name of the package to check.
ignoreHiddenFunctions
Ignore functions for which the definition cannot be retrieved?
suppressBindingKeywords
A set of keywords that are indicative of non-standard evaluation.
```

Check all code in a package

#### **Details**

This function uses the codetools package to check the code from problems. Heuristics are used to eliminate false positives due to non-standard evaluation.

### **Examples**

```
checkUsagePackage("OhdsiRTools")
```

createConceptSetWorkbook

Save a set of concept sets expressions, included concepts, and mapped concepts into a workbook

### Description

Save a set of concept sets expressions, included concepts, and mapped concepts into a workbook

### Usage

```
createConceptSetWorkbook(
  conceptSetIds,
  workFolder = NULL,
  baseUrl,
  included = FALSE,
  mapped = FALSE
)
```

#### **Arguments**

conceptSetIds A vector of concept set IDs.

workFolder Directory location where the workbook will be saved, defaults to working direc-

tory.

baseUrl The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

included Should included concepts be included in the workbook?

Should mapped concepts be included in the workbook?

#### Value

A xlsx workbook (conceptSetExpressions.xlsx) that includes a list of all concept set IDs and names and a worksheet for the concepts in each set. Options to include an included concepts and mapped concepts worksheet for each concept set are available.

createRenvLockFile

Create a renv lock file

#### **Description**

Create a renv lock file

### Usage

```
createRenvLockFile(
  rootPackage,
  ohdsiGitHubPackages = getOhdsiGitHubPackages(),
  ohdsiStudiesGitHubPackages = rootPackage,
  fileName = "renv.lock"
)
```

#### **Arguments**

rootPackage The name of the root package, the package that we'd like to be able to run in the end.

ohdsiGitHubPackages

Names of R packages that need to be installed from the OHDSI GitHub.

ohdsiStudies Git Hub Packages

Names of R packages that need to be installed from the OHDSI-Studies GitHub.

fileName

Name of the lock file to be generated.

### **Details**

Create a lock file that allows reconstruction of the R environment using the renv package. This function will include the root file and all of its dependencies in the lock file, requiring the same package versions as currently installed on this computer.

#### Value

Does not return a value. Is executed for the side-effect of creating the lock file.

```
find Non Ascii Strings In Folder \\
```

Find non-ASCII strings in R files

### Description

Find non-ASCII string in R files.

```
findNonAsciiStringsInFolder(path = ".", recursive = TRUE)
```

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### **Arguments**

path Path to the folder containing the R files.

recursive If TRUE, subfolders will also be searched for R files.

#### Value

A table listing the lines per R file containing non-ASCII characters.

fixHadesLogo

Fix HADES logo in pkgdown output

### Description

In all HTML files in the docs folder, each occurrence of 'hadesLogo' is replaced with an HTML image tag referring to the HADES logo.

#### Usage

```
fixHadesLogo(path = ".")
```

### **Arguments**

path

Path to the root of the package for which the pkgdown output needs to be fixed.

### Value

This function returns nothing.

formatRFile

Format an R file

### Description

Format an R file

#### Usage

```
formatRFile(file, width.cutoff = 100)
```

### Arguments

file The path to the file.

width.cutoff Number of characters that each line should be limited to.

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formatRFolder

Format all R files in a folder

### **Description**

Format all R files in a folder

### Usage

```
formatRFolder(path = ".", recursive = TRUE, skipAutogenerated = TRUE, ...)
```

### **Arguments**

path Path to the folder containing the files to format. Only files with the .R extension

will be formatted.

recursive Include all subfolders?

skipAutogenerated

Skip auto-generated files such as RcppExports.R?

... Parameters to be passed on the the formatRFile function

formatRText

Format R code

### Description

Format R code

### Usage

```
formatRText(text, width.cutoff = 100)
```

#### **Arguments**

text A character vector with the R code to be formatted. width.cutoff Number of characters that each line should be limited to.

#### Value

A character vector with formatted R code.

### **Examples**

```
code <- "example <- function(x,foobar){paste(x,foobar)}"
formatted <- formatRText(code)
writeLines(formatted)</pre>
```

```
{\tt getCohortDefinitionExpression}
```

Get a cohort definition expression

### **Description**

Get a cohort definition expression

### Usage

```
getCohortDefinitionExpression(definitionId, baseUrl)
```

### **Arguments**

definitionId The number indicating which cohort definition to fetch.

baseUrl The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

#### **Details**

Obtain the JSON expression from WebAPI for a given cohort id

#### Value

A JSON list object representing the cohort definition

### **Examples**

```
## Not run:
# This will obtain a cohort definition's JSON expression:
getCohortDefinitionExpression(definitionId = 282, baseUrl = "http://server.org:80/WebAPI")
## End(Not run)
```

 ${\tt getCohortDefinitionName}$ 

Get a cohort definition's name from WebAPI

### **Description**

Get a cohort definition's name from WebAPI

```
getCohortDefinitionName(baseUrl, definitionId, formatName = FALSE)
```

### **Arguments**

baseUrl The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

definitionId The cohort definition id in Atlas.

formatName Should the name be formatted to remove prefixes and underscores?

### **Details**

Obtains the name of a cohort.

### Value

The name of the cohort.

getCohortDefinitionSql

Get a cohort definition's SQL from WebAPI

### Description

Get a cohort definition's SQL from WebAPI

### Usage

getCohortDefinitionSql(baseUrl, definitionId)

### Arguments

baseUrl The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

definitionId The cohort definition id in Atlas.

### Details

Obtains the template SQL of a cohort.

### Value

The templated SQL to generate the cohort

 ${\tt getCohortGenerationStatuses}$ 

Get Cohort Generation Statuses

### **Description**

Get Cohort Generation Statuses

### Usage

getCohortGenerationStatuses(baseUrl, definitionIds, sourceKeys)

### **Arguments**

baseUrl The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

definitionIds A list of cohort definition Ids

sourceKeys A list of CDM source keys. These can be found in Atlas -> Configure.

#### **Details**

Obtains cohort generation statuses for a collection of cohort definition Ids and CDM sources. Useful if running multiple cohort generation jobs that are long-running.

#### Value

A data frame of cohort generation statuses, start times, and execution durations per definition id and source key.

getConceptSetConceptIds

Get Concept Set Concept Ids

### **Description**

Get Concept Set Concept Ids

### Usage

getConceptSetConceptIds(baseUrl, setId, vocabSourceKey = NULL)

### **Arguments**

baseUrl The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

setId The concept set id in Atlas.

vocabSourceKey The source key of the Vocabulary. By default, the priority Vocabulary is used.

### Details

Obtains the full list of concept Ids in a concept set.

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#### Value

A list of concept Ids.

```
{\tt getConceptSetExpression}
```

Get a concept set expression

### **Description**

Get a concept set expression

### Usage

```
getConceptSetExpression(baseUrl, setId)
```

### **Arguments**

baseUrl The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

setId The concept set id in Atlas.

### **Details**

Obtain the JSON expression from WebAPI for a given concept set

#### Value

A JSON list object representing the concept set

### **Examples**

```
## Not run:
# This will obtain a concept set's JSON expression:
getConceptSetExpression(setId = 282, baseUrl = "http://server.org:80/WebAPI")
## End(Not run)
```

 ${\tt getConceptSetName}$ 

Get a concept set's name from WebAPI

### Description

Get a concept set's name from WebAPI

```
getConceptSetName(baseUrl, setId, formatName = FALSE)
```

#### **Arguments**

baseUrl The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

setId The concept set id in Atlas.

formatName Should the name be formatted to remove prefixes and underscores?

### **Details**

Obtains the name of a concept set.

#### Value

The name of the concept set.

getConceptSetsAndConceptsFromCohort

Get a list of concept sets and concepts from a cohort definition

### Description

Get a list of concept sets and concepts from a cohort definition

### Usage

```
getConceptSetsAndConceptsFromCohort(
  baseUrl,
  definitionId,
  vocabSourceKey = NULL
)
```

### **Arguments**

baseUrl The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

definitionId The cohort id to fetch concept sets and concepts from

vocabSourceKey A mysterious parameter.

### **Details**

For a given cohort definition id, get all concept sets and resolve all concepts from each

#### Value

A list of concept sets, set names, and concepts

### **Examples**

```
## Not run:
# This will obtain a list of concept sets and concepts from a cohort id:
getConceptsFromCohortId(baseUrl = "http://server.org:80/WebAPI", definitionId = 123)
## End(Not run)
```

getCorePackages

Get a list of R core packages

### Description

Get a list of R core packages

### Usage

getCorePackages()

### **Details**

Returns names of packages that are part of the R code, and can therefore not be installed.

### Value

A character vector.

getOhdsiGitHubPackages

Get a list of packages in the OHDSI GitHub.

### Description

Get a list of packages in the OHDSI GitHub.

### Usage

getOhdsiGitHubPackages()

### **Details**

Returns names of packages that need to be installed from https://github.com/ohdsi.

### Value

A character vector.

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getPriorityVocabKey Get Priority Vocab Source Key

### **Description**

Get Priority Vocab Source Key

### Usage

getPriorityVocabKey(baseUrl)

### **Arguments**

baseUrl

The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

#### **Details**

Obtains the source key of the default OMOP Vocab in Atlas.

#### Value

A string with the source key of the default OMOP Vocab in Atlas.

getSetExpressionConceptIds

Get Concepts from a Concept Set Expression

### **Description**

Get Concepts from a Concept Set Expression

### Usage

getSetExpressionConceptIds(baseUrl, expression, vocabSourceKey = NULL)

### **Arguments**

baseUrl The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

expression A JSON string that represents the concept set expression

vocabSourceKey The source key of the Vocabulary. By default, the priority Vocabulary is used.

### Value

A list of concept ids

#### **Examples**

insertCohortDefinitionInPackage

Load a cohort definition and insert it into this package

#### **Description**

Load a cohort definition and insert it into this package

#### Usage

```
insertCohortDefinitionInPackage(
  definitionId,
  name = NULL,
  baseUrl,
  generateStats = FALSE
)
```

### Arguments

definitionId The number indicating which cohort definition to fetch.

name The name that will be used for the json and SQL files. If not provided, the name

in cohort will be used, but this may not lead to valid file names.

baseUrl The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

generateStats Should the SQL include the code for generating inclusion rule statistics? Note

that if TRUE, several additional tables are expected to exists as described in the

details.

#### **Details**

Load a cohort definition from a WebApi instance and insert it into this package. This will fetch the json object and store it in the 'inst/cohorts' folder, and fetch the template SQL and store it in the 'inst/sql/sql\_server' folder. Both folders will be created if they don't exist. When using generateStats = TRUE, the following tables are required to exist when executing the SQL: cohort\_inclusion, cohort\_inclusion\_result, cohort\_inclusion\_stats, and cohort\_summary\_stats. Also note that the cohort\_inclusion table should be populated with the names of the rules prior to executing the cohort definition SQL.

#### **Examples**

insertCohortDefinitionSetInPackage

Insert a set of cohort definitions into package

### **Description**

Insert a set of cohort definitions into package

### Usage

```
insertCohortDefinitionSetInPackage(
  fileName,
  baseUrl,
  insertTableSql = TRUE,
  insertCohortCreationR = TRUE,
  generateStats = FALSE,
  packageName
)
```

#### **Arguments**

fileName Name of a CSV file in the inst/settings folder of the package specifying the

cohorts to insert. See details for the expected file format.

baseUrl The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

insertTableSql Should the SQL for creating the cohort table be inserted into the package as

well? This file will be called CreateCohortTable.sql.

 $\verb"insertCohortCreationR"$ 

Insert R code that will create the cohort table and instantiate the cohorts? This

will create a file called R/CreateCohorts.R containing a function called .createCohorts.

generateStats Should cohort inclusion rule statistics be created?

packageName The name of the package (only needed when inserting the R code as well).

#### **Details**

The CSV file should have at least the following fields:

atlasId The cohort ID in ATLAS.

**cohortId** The cohort ID that will be used when instantiating the cohort (can be different from atlasId).

**name** The name to be used for the cohort. This name will be used to generate file names, so please use letters and numbers only (no spaces).

insertConceptSetConceptIdsInPackage

Insert a set of concept sets' concept ids into package

#### **Description**

Insert a set of concept sets' concept ids into package

#### Usage

insertConceptSetConceptIdsInPackage(fileName, baseUrl)

#### **Arguments**

fileName Name of a CSV file in the inst/settings folder of the package specifying the

concept sets to insert. See details for the expected file format.

baseUrl The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

#### **Details**

The CSV file should have:

atlasId The concept set Id in ATLAS.

insertEnvironmentSnapshotInPackage

Store snapshot of the R environment in the package

### **Description**

Store snapshot of the R environment in the package

### Usage

```
insertEnvironmentSnapshotInPackage(
  rootPackage,
  pathToCsv = "inst/settings/rEnvironmentSnapshot.csv"
)
```

#### **Arguments**

rootPackage The name of the root package

pathToCsv The path for saving the snapshot (as CSV file).

#### **Details**

This function records all versions used in the R environment that are used by one root package, and stores them in a CSV file in the R package that is currently being developed. The default location is inst/settings/rEnvironmentSnapshot.csv.This can be used for example to restore the environment to the state it was when a particular study package was run using the restoreEnvironment function.

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#### **Examples**

```
## Not run:
insertEnvironmentSnapshotInPackage("OhdsiRTools")
## End(Not run)
```

invokeCohortSetGeneration

Invoke the generation of a set of cohort definitions

### **Description**

Invoke the generation of a set of cohort definitions

### Usage

invokeCohortSetGeneration(baseUrl, sourceKeys, definitionIds)

### **Arguments**

baseUrl The base URL for the WebApi instance, for example: "http://server.org:80/WebAPI".

sourceKeys A list of CDM source keys. These can be found in Atlas -> Configure.

definitionIds A list of cohort definition Ids

#### **Details**

Invokes the generation of a set of cohort definitions across a set of CDMs set up in WebAPI. Use getCohortGenerationStatuses to check the progress of the set.

 ${\tt restore} {\tt Environment}$ 

Restore the R environment to a snapshot

### **Description**

Restore the R environment to a snapshot

```
restoreEnvironment(
   snapshot,
   stopOnWrongRVersion = FALSE,
   strict = FALSE,
   skipLast = TRUE
)
```

#### **Arguments**

snapshot The snapshot data frame as generated using the takeEnvironmentSnapshot

function.

stopOnWrongRVersion

Should the function stop when the wrong version of R is installed? Else just a

warning will be thrown when the version doesn't match.

strict If TRUE, the exact version of each package will installed. If FALSE, a package

will only be installed if (a) a newer version is required than currently installed,

or (b) the major version number is different.

skipLast Skip last entry in snapshot? This is usually the study package that needs to be

installed manually.

#### **Details**

This function restores the R environment to a previous snapshot, meaning all the packages will be restored to the versions they were at at the time of the snapshot. Note: on Windows you will very likely need to have RTools installed to build the various packages.

### **Examples**

```
## Not run:
snapshot <- takeEnvironmentSnapshot("OhdsiRTools")
write.csv(snapshot, "snapshot.csv")
# 5 years later
snapshot <- read.csv("snapshot.csv")
restoreEnvironment(snapshot)
## End(Not run)</pre>
```

restoreEnvironmentFromPackage

Restore environment stored in package

### **Description**

Restore environment stored in package

```
restoreEnvironmentFromPackage(
  pathToCsv = "inst/settings/rEnvironmentSnapshot.csv",
  stopOnWrongRVersion = FALSE,
  strict = FALSE,
  skipLast = TRUE
)
```

#### **Arguments**

pathToCsv The path for saving the snapshot (as CSV file).

stopOnWrongRVersion

Should the function stop when the wrong version of R is installed? Else just a

warning will be thrown when the version doesn't match.

strict If TRUE, the exact version of each package will installed. If FALSE, a package

will only be installed if (a) a newer version is required than currently installed,

or (b) the major version number is different.

skipLast Skip last entry in snapshot? This is usually the study package that needs to be

installed manually.

#### **Details**

This function restores all packages (and package versions) described in the environment snapshot stored in the package currently being developed. The default location is inst/settings/rEnvironmentSnapshot.csv.

### **Examples**

```
## Not run:
restoreEnvironmentFromPackage()
## End(Not run)
```

restore Environment From Package On Github

Restore environment stored in package

### **Description**

Restore environment stored in package

#### Usage

```
restoreEnvironmentFromPackageOnGithub(
  githubPath,
  pathToCsv = "inst/settings/rEnvironmentSnapshot.csv",
  stopOnWrongRVersion = FALSE,
  strict = FALSE,
  skipLast = TRUE
)
```

#### **Arguments**

 $\label{thm:path} \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRates)} \\ \textbf{The path for the GitHub repo containing the package (e.g. \ 'OHDSI/StudyProtocols/AlendronateVsRate$ 

pathToCsv The path for the snapshot inside the package.

stopOnWrongRVersion

Should the function stop when the wrong version of R is installed? Else just a warning will be thrown when the version doesn't match.

strict If TRUE, the exact version of each package will installed. If FALSE, a package

will only be installed if (a) a newer version is required than currently installed,

or (b) the major version number is different.

skipLast Skip last entry in snapshot? This is usually the study package that needs to be

installed manually.

#### **Details**

This function restores all packages (and package versions) described in the environment snapshot stored in the package currently being developed. The default location is inst/settings/rEnvironmentSnapshot.csv.

### **Examples**

```
## Not run:
restoreEnvironmentFromPackageOnGithub("OHDSI/StudyProtocols/AlendronateVsRaloxifene")
## End(Not run)
```

takeEnvironmentSnapshot

Take a snapshot of the R environment

### **Description**

Take a snapshot of the R environment

### Usage

takeEnvironmentSnapshot(rootPackage)

### **Arguments**

rootPackage The name of the root package

#### **Details**

This function records all versions used in the R environment that are used by one root package. This can be used for example to restore the environment to the state it was when a particular study package was run using the restoreEnvironment function.

#### Value

A data frame listing all the dependencies of the root package and their version numbers, in the order in which they should be installed.

### **Examples**

```
snapshot <- takeEnvironmentSnapshot("OhdsiRTools")
snapshot</pre>
```

updateCopyrightYearFile

Update the copyright year in a R or SQL file

### Description

Update the copyright year in a R or SQL file

### Usage

```
updateCopyrightYearFile(file)
```

### **Arguments**

file

The path to the file.

updateCopyrightYearFolder

Update the copyright year in all R and SQL files in a folder

### Description

Update the copyright year in all R and SQL files in a folder

### Usage

```
updateCopyrightYearFolder(path = ".", recursive = TRUE)
```

### **Arguments**

path

Path to the folder containing the files to update. Only files with the .R and .SQL

extension will be updated.

recursive

Include all subfolders?

 $update {\tt PackageName}$ 

Update the package name in a R or SQL file

### **Description**

Update the package name in a R or SQL file

### Usage

```
updatePackageName(file, packageName)
```

### Arguments

file

The path to the file.

packageName

The replacement package name

 $update {\tt PackageNameFolder}$ 

Update the package name in all R and SQL files in a folder

### Description

Update the package name in all R and SQL files in a folder

### Usage

```
updatePackageNameFolder(path = ".", packageName, recursive = TRUE)
```

### Arguments

path Path to the folder containing the files to update. Only files with the .R and .SQL

extension will be updated.

packageName The replacement package name

recursive Include all subfolders?

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