Package 'OhdsiRTools'

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Description Format and check syntax of R code and packages following the OHDSI R style guidelines.
License Apache License 2.0
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R topics documented:
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checkUsagePackage

Check all code in a package

Description

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.

 $ignore \verb|HiddenFunctions|$

Ignore functions for which the definition cannot be retrieved?

suppress Binding Keywords

A set of keywords that are indicative of non-standard evaluation.

Details

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

clusterApply 3

clusterApply	Apply a function to a list using the cluster	

Description

Apply a function to a list using the cluster

Usage

```
clusterApply(cluster, x, fun, ..., stopOnError = FALSE, progressBar = TRUE,
    divideFfMemory = TRUE, setFfTempDir = TRUE)
```

Arguments

cluster The cluster of threads to run the function.

x The list on which the function will be applied.

fun The function to apply.

... Additional parameters for the function.

stopOnError Stop when one of the threads reports an error? If FALSE, all errors will be

reported at the end.

progressBar Show a progress bar?

divideFfMemory When TRUE, the memory available for processing ff and ffdf objects will be

equally divided over the threads.

setFfTempDir When TRUE, the ffTempDir option will be copied to each thread.

Details

The function will be executed on each element of x in the threads of the cluster. If there are more elements than threads, the elements will be queued. The progress bar will show the number of elements that have been completed.

Value

A list with the result of the function on each item in x.

clusterRequire	Require a package in the cluster	

Description

Require a package in the cluster

Usage

```
clusterRequire(cluster, package)
```

Arguments

cluster The cluster object.

package The name of the package to load in all nodes.

 ${\tt convertArgsToList}$

Convert arguments used in call to a list

Description

Convert arguments used in call to a list

Usage

```
convertArgsToList(matchCall, resultClass = "list")
```

Arguments

```
matchCall The result of match.call().
resultClass The class of the resulting object.
```

Details

Takes the argument values (both default and user-specified) and store them in a list.

Value

An object of the class specified in resultClass.

Examples

```
myFun <- function(x = 1, y = 2){
  return(convertArgsToList(match.call()))
}</pre>
```

convertFakeDfToDataFrame

Convert a fakeDf object to a data.frame

Description

Convert a fakeDf object to a data.frame

Usage

```
convertFakeDfToDataFrame(fakeDf)
```

Arguments

fakeDf An object of type fakeDf.

Value

A data.frame.

createArgFunction 5

createArgFunction	Create an argument function
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Description

Create an argument function

Usage

```
createArgFunction(functionName, excludeArgs = c(), includeArgs = NULL,
  rCode = c(), newName)
```

Arguments

functionName The name of the function for which we want to create an args function.

excludeArgs Exclude these arguments from appearing in the args function.

includeArgs Include these arguments in the args function.

rCode A character vector representing the R code where the new function should be

appended to.

newName The name of the new function. If not specified, the new name will be automati-

cally derived from the old name.

Details

This function can be used to create a function that has (almost) the same interface as the specified function, and the output of this function will be a list of argument values.

Value

A character vector with the R code including the new function.

excludeFromList Exclude variables from a list of objects of the same type

Description

Exclude variables from a list of objects of the same type

Usage

```
excludeFromList(x, exclude)
```

Arguments

x A list of objects of the same type.

exclude A character vector of names of variables to exclude.

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fakeDfToFfdf

Convert a fakeDf object to ffdf

Description

Convert a fakeDf object to ffdf

Usage

fakeDfToFfdf(fakeDf)

Arguments

fakeDf

An object of type fakeDf.

Value

An ffdf object.

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.

formatRFolder 7

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 autogenerated files such as RcppExports.R?

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

Examples

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

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.

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insertCirceDefinitionInPackage

Load a Circe definition and insert it into this package

Description

Load a Circe definition and insert it into this package

Usage

```
insertCirceDefinitionInPackage(definitionId, name = NULL,
  baseUrl = "http://hixbeta.jnj.com:8081/WebAPI")
```

Arguments

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

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

baseUrl The base URL for the WebApi instance.

defintionId The number indicating which Circe definition to fetch.

Details

Load a Circe definition from a WebApi instance and insert it into this package. This will fetch the json object and store it in the 'inst/circe' 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.

Examples

```
## Not run:
# This will create 'inst/circe/MyocardialInfarction.json' and
# 'inst/sql/sql_server/MyocardialInfarction.sql':
insertCirceDefinitionInPackage(280, "MyocardialInfarction")
## End(Not run)
```

makeCluster

Create a cluster of nodes for parallel computation

Description

Create a cluster of nodes for parallel computation

Usage

```
makeCluster(numberOfThreads, singleThreadToMain = TRUE)
```

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Arguments

numberOfThreads

Number of parallel threads.

singleThreadToMain

If numberOfThreads is 1, should we fall back to running the process in the main thread?

Value

An object representing the cluster.

matchInList

In a list of object of the same type, find those that match the input

Description

In a list of object of the same type, find those that match the input

Usage

```
matchInList(x, toMatch)
```

Arguments

x A list of objects of the same type.

toMatch The object to match.

Details

Typically, toMatch will contain a subset of the variables that are in the objects in the list. Any object matching all variables in toMatch will be included in the result.

Value

A list of objects that match the toMatch object.

nrowOfFakeDf

Return number of rows in fakeDf

Description

Return number of rows in fakeDf

Usage

```
nrowOfFakeDf(fakeDf)
```

Arguments

fakeDf

The fakeDf object

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Value

Number of rows.

ohdsiLintrFile

Check R file for code errors

Description

Check R file for code errors

Usage

```
ohdsiLintrFile(file)
```

Arguments

file

The R file to check

Details

This function uses the lintr package to check the code.

ohdsiLintrFolder

Check all R files in a folder

Description

Check all R files in a folder

Usage

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

Arguments

path

Path to the folder containing the files to check. Only files with the .R extension

will be checked.

recursive

Include all subfolders?

Details

This function uses the lintr package to check the code.

OhdsiRTools

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prettyPrint

Print a list of objects

Description

Print a list of objects

Usage

```
prettyPrint(object)
```

Arguments

object

The list to print.

Details

Will print nested lists using indentation.

rbindFakeDfs

Bind two fakeDf objects by rows

Description

Bind two fakeDf objects by rows

Usage

```
rbindFakeDfs(fakeDf1, fakeDf2)
```

Arguments

fakeDf1 The first fakeDf object.

fakeDf2 The second fakeDf object.

Value

A fakeDf object with the rows of both fakeDf1 and fakeDf2.

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selectFromList

Select variables from a list of objects of the same type

Description

Select variables from a list of objects of the same type

Usage

```
selectFromList(x, select)
```

Arguments

x A list of objects of the same type.

select A character vector of names of variables to select.

stopCluster

Stop the cluster

Description

Stop the cluster

Usage

```
stopCluster(cluster)
```

Arguments

cluster

The cluster to stop

subsetFakeDf

Create a subset of fakeDf object

Description

Create a subset of fakeDf object

Usage

```
subsetFakeDf(fakeDf, index)
```

Arguments

fakeDf The fakeDf object to subset.

index An integer vector identifying the rows to extract.

Value

An object of type fakeDf, which is a list of vectors.

subsetFfdfToFakeDf 13

subsetFfdfToFakeDf Create a subset of an ffdf object as a fakeDf object

Description

Create a subset of an ffdf object as a fakeDf object

Usage

```
subsetFfdfToFakeDf(ffdf, index)
```

Arguments

ffdf The ffdf object to subset.

index An integer vector or ri object identifying the rows to extract.

Value

An object of type fakeDf, which is a list of vectors.

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