# Package 'OhdsiRTools'

# February 9, 2016

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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

Apply a function to a list using the cluster

#### **Description**

Apply a function to a list using the cluster

#### Usage

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#### **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.

4 createArgFunction

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>
```

 ${\tt createArgFunction}$ 

Create an argument function

#### **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.

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#### **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.

 ${\it exclude From List}$ 

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.

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.

6 formatRText

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.

 $insert {\tt CirceDefinitionInPackage}$ 

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**

definitionId The number indicating which Circe definition to fetch.

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.

#### 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.

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# Description

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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.

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**

Х

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

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?

#### **Examples**

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

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