Package: kwb.odmx (via r-universe)

August 24, 2024

Type Package

Title Extended functions to access the data in an ODM database

Version 0.2.0

Description Extended functions to access the data in an ODM database.

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URL <https://github.com/KWB-R/kwb.odmx>

BugReports <https://github.com/KWB-R/kwb.odmx/issues>

Imports kwb.db, kwb.odm, kwb.utils

Remotes github::kwb-r/kwb.db, github::kwb-r/kwb.odm,
github::kwb-r/kwb.utils

LazyData TRUE

RoxygenNote 7.1.1

Repository https://kwb-r.r-universe.dev

RemoteUrl https://github.com/KWB-R/kwb.odmx

RemoteRef HEAD

RemoteSha 3a0e53451cd0c65bef1242b721fad7923112fc0b

Contents

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getLabValuesGreaterOrEqualZero
```
Get lab results from database

Description

Get lab results from database

Usage

```
getLabValuesGreaterOrEqualZero(
  db,
  stringsAsFactors = FALSE,
  keep.only.best.quality = TRUE
)
```

Arguments

db   name of ODBC database or full path to database file

stringsAsFactors

         Passed to `hsSqlQuery`. Default: FALSE#'

keep.only.best.quality

         if `TRUE` (default) data values in raw data quality are removed if they occur in different quality levels

---

```
keepOnlyBestQualityControlLevel
```
Remove raw data values if data values of better quality exist

---

Description

Remove raw data values if data values of better quality exist

Usage

```
keepOnlyBestQualityControlLevel(x, dbg = TRUE)
```

Arguments

x   data frame with columns `ValueID`, `LabSampleCode`, `VariableCode`, `QualityControlLevelID`

dbg   if `TRUE` (default) debug messages are shown else not

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readMainOdmObjects   *read main ODM objects from Excel files*

Description

read main ODM objects from Excel files (ID and Code or corresponding column)

Usage

```
readMainOdmObjects(folder)
```

Arguments

folder   folder containing the files variables.xls, sources.xls, sites.xls, methods.xls. In
                each Excel file the cell range making up the actual table must be named "table-
                data"

Value

list with elements `variables`, `sources`, `sites`, `methods` each of which is a data frame with two
columns (ID and code or a similar column identifying the object).

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simplifyColumns   *merge VariableCode and Unit, use '<', '>' or '=' as CensorCode*

Description

merge VariableCode and Unit, use '<', '>' or '=' as CensorCode

Usage

```
simplifyColumns(x, short.codes = TRUE)
```

Arguments

x   data frame with columns `VariableCode`, `UnitsAbbreviation`,`CensorCode`
short.codes   if TRUE (default) the censor codes are renamed: "lt" -> "<"; "gt" -> ">"; "nc" ->
                 ""

Examples

```
x <- data.frame(VariableCode = c("A", "B"),
                UnitsAbbreviation = c("mg/l", "ug/l"),
                CensorCode = c("lt", "nc"))

simplifyColumns(x)
```

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