

Package: HighFrequencyChecks (via r-universe)

October 12, 2026

Type Package

Title High Frequency Checks

Version 0.5.0

Maintainer Edouard Legoupil <legoupil@unhcr.org>

Description During the data collection, a series of automatic check, aka: High Frequency checks, are required. The functions shared here are useful during the data collection process to check periodically for possible errors, and will provide meaningful inputs to the enumerators. All these functions do not have to be ran at the same period of time. They are provided there to help data supervisor to build reports. This work is an adaptation of a Stata Package from [Innovations for Poverty Action](<https://github.com/PovertyAction/high-frequency-checks>).

License MIT + file LICENSE

URL <https://edouard-legoupil.github.io/HighFrequencyChecks>

BugReports <https://github.com/Edouard-Legoupil/HighFrequencyChecks/issues>

Depends R (>= 3.5.0)

Imports config, DescTools, dplyr, ggplot2, golem, kobocruncher, magrittr, outliers, readr, reshape2, riddle, shiny, shinydashboard, sjlabelled, sp, stats, stringi, tidyverse, unhcrshiny, unhcrthemes, utils

Suggests data.table, DT, gsubfn, knitr, rmarkdown, spelling, testthat

Remotes unhcr-dataviz/unhcrdown, unhcr-dataviz/unhcrthemes, edouard-legoupil/unhcrshiny, edouard-legoupil/kobocruncher, edouard-legoupil/riddle

VignetteBuilder knitr

Config/fusen/version 0.5.2

Encoding UTF-8

LazyData true

RoxygenNote 7.2.3.9000

Language en-US

Config/pak/sysreqs libcairo2-dev cmake libfontconfig1-dev libfreetype6-dev libfribidi-dev make libharfbuzz-dev libmagick++-dev gsfonts libicu-dev libjpeg-dev libpng-dev libtiff-dev libuv1-dev libwebp-dev libxml2-dev libssl-dev libx11-dev zlib1g-dev

Repository <https://humanitarian-user-group.r-universe.dev>

Date/Publication 2023-11-02 19:37:01 UTC

RemoteUrl <https://github.com/Edouard-Legoupil/HighFrequencyChecks>

RemoteRef HEAD

RemoteSha 92c85ccda651dd111b0334c3304687e313ad1d58

Contents

assessmentDailyValidSurveys	3
assessmentDuration	4
assessmentDurationOutliers	5
assessmentInterviewTime	6
assessmentProductivity	7
assessmentTrackingSheet	8
enumeratorErrorsSummary	10
enumeratorIsLazy	11
enumeratorProductivity	12
enumeratorProductivityOutliers	13
enumeratorSurveysConsent	14
enumeratorSurveysDuration	15
isInterviewAtTheSamplePoint	16
isInterviewCompleted	18
isInterviewInTheCorrectSite	19
isInterviewTooShort	21
isInterviewTooShortForTheHouseholdSize	23
isInterviewWithConsent	24
isSurveyEndBeforeItStarts	25
isSurveyMadeInTheFuture	27
isSurveyOnMoreThanADay	28
isSurveyStartedBeforeTheAssessment	30
isuniquerespondantIDDuplicated	31
isuniquerespondantIDMissing	33
run_app	34
surveyBigValues	35
surveyDistinctValues	36
surveyMissingValues	37
surveyOtherValues	38
surveyOutliers	39
surveySmallValues	41

Index	43
--------------	-----------

assessmentDailyValidSurveys

Daily number of filled forms per consent status

Description

This function display the number of filled forms conducted per day per consent status.

Usage

```
assessmentDailyValidSurveys(
  ds = NULL,
  surveyDate = NULL,
  dateFormat = NULL,
  surveyConsent = NULL,
  attempt = NULL
)
```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
surveyDate	name of the field in the dataset where the date of the survey is stored: string
dateFormat	format used for the date: string ('%m/%d/%Y')
surveyConsent	name of the field in the dataset where the survey consent is stored: string
attempt	name of the field in the dataset where the interview attempt output is stored: string
checkperiod	if not null number of day before today when the check should be made
consentForValidSurvey	value defined in the kobo form to acknowledge the surveyed person gave his consent: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete = TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
surveyDate <- "survey_date"
dateFormat <- "%m/%d/%Y"
surveyConsent <- "survey_consent"
result <- assessmentDailyValidSurveys(
  ds = ds,
```

```

surveyDate = surveyDate,
dateFormat = dateFormat,
surveyConsent = surveyConsent)

knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])

```

assessmentDuration	<i>Compute the average and total time for the surveys</i>
--------------------	---

Description

This function compute the average and total time for the surveys Warning: If there are uncorrected mistakes in the survey dates, it can lead to have the length of the survey in seconds and this check will not performed well

Usage

```
assessmentDuration(ds = NULL, dates = NULL, attempt = NULL)
```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
dates	name of the fields where the information about the start and end date of the survey is stored: list of string (c('start_date','end_date'))
attempt	name of the field in the dataset where the interview attempt output is stored: string
checkperiod	if not null number of day before today when the check should be made
surveyConsent	name of the field in the dataset where the survey consent is stored: string
consentForValidSurvey	value defined in the kobo form to acknowledge the surveyed person gave his consent: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```

load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
dates <- c("survey_start", "end_survey")

result <- assessmentDuration(ds = ds, dates=dates)
knitr::kable(head(result[["ret_log"]],10))
print(result[["graph"]])

```

assessmentDurationOutliers

Report the outlier durations for the surveys

Description

This function report the outlier durations for the surveys

Usage

```
assessmentDurationOutliers(
  ds = NULL,
  dates = NULL,
  sdval = 2,
  attempt = NULL,
  startDataCollection = NULL,
  reportingColumns = c(enumeratorID, uniquerespondantID)
)
```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
dates	name of the fields where the information about the start and end date of the survey is stored: list of string (c('start_date','end_date'))
sdval	(Optional, by default set to 2) number of standard deviation for which the data within is considered as acceptable: integer
attempt	name of the field in the dataset where the interview attempt output is stored: string
startDataCollection	Date when the data collections started
reportingColumns	(Optional, by default it is built from the enumeratorID and the uniquerespondantID) name of the columns from the dataset you want in the result: list of string (c('coll','col2',...))
checkperiod	if not null number of day before today when the check should be made
uniquerespondantID	name of the field where the survey unique ID is stored: string
enumeratorID	name of the field where the enumerator ID is stored: string
surveyConsent	name of the field in the dataset where the survey consent is stored: string
consentForValidSurvey	value defined in the kobo form to acknowledge the surveyed person gave his consent: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
dates <- c("survey_start", "end_survey")
uniquerespondantID <- "X_uuid"
enumeratorID <- "enumerator_id"
reportingColumns <- c(enumeratorID, uniquerespondantID)
sdval<-2
result <- assessmentDurationOutliers(ds = ds,
                                     dates=dates,
                                     sdval=sdval,
                                     reportingColumns=reportingColumns)

knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])
```

assessmentInterviewTime

Daily number of filled forms per consent status

Description

This function display the number of filled forms conducted per day per consent status.

Usage

```
assessmentInterviewTime(
  ds = NULL,
  surveyDate = NULL,
  dateFormat = NULL,
  surveyConsent = NULL
)
```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
surveyDate	name of the field in the dataset where the date of the survey is stored: string
dateFormat	format used for the date: string ('%m/%d/%Y')
surveyConsent	name of the field in the dataset where the survey consent is stored: string

consentForValidSurvey	value defined in the kobo form to acknowledge the surveyed person gave his consent: string
attempt	name of the field in the dataset where the interview attempt output is stored: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
surveyDate <- "survey_date"
dateFormat <- "%m/%d/%Y"
surveyConsent <- "survey_consent"
result <- assessmentInterviewTime(ds = ds,
                                surveyDate=surveyDate,
                                dateFormat=dateFormat,
                                surveyConsent=surveyConsent)

knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])
```

assessmentProductivity

Summary of daily average productivity

Description

This function display the number of interview conducted per day.

Usage

```
assessmentProductivity(
  ds = NULL,
  surveyDate = NULL,
  dateFormat = NULL,
  surveyConsent = NULL
)
```

Arguments

ds dataset containing the survey (from kobo): labelled data.frame
 surveyDate name of the field in the dataset where the date of the survey is stored: string
 dateFormat format used for the date: string ('%m/%d/%Y')
 surveyConsent name of the field in the dataset where the survey consent is stored: string
 checkperiod if not null number of day before today when the check should be made
 consentForValidSurvey value defined in the kobo form to acknowledge the surveyed person gave his consent: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```

load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
surveyDate <- "survey_date"
dateFormat <- "%m/%d/%Y"
surveyConsent <- "survey_consent"
result <- assessmentProductivity(ds = ds,
                                surveyDate = surveyDate,
                                dateFormat = dateFormat,
                                surveyConsent = surveyConsent)

knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])

```

assessmentTrackingSheet

Overall tracking sheet

Description

This function display the overall tracking sheet.

Usage

```

assessmentTrackingSheet(
  ds = NULL,
  dsSite = NULL,
  sampleSizeTable = NULL,
  sampleSizeTableSite = NULL,

```

```

    sampleSizeTableTarget = NULL,
    sampleSizeTableAvailable = NULL,
    surveyConsent = NULL,
    consentForValidSurvey = NULL
  )

```

Arguments

<code>ds</code>	dataset containing the survey (from kobo): labelled data.frame
<code>dsSite</code>	name of the field in the dataset where the site is stored: string
<code>sampleSizeTable</code>	dataset containing the sampling frame: data.frame
<code>sampleSizeTableSite</code>	name of the field in the sampling frame where the site is stored: string
<code>sampleSizeTableTarget</code>	name of the field where the target number of survey is stored in the sampling frame: string
<code>sampleSizeTableAvailable</code>	name of the field where the number of points generated is stored in the sampling frame: string
<code>surveyConsent</code>	name of the field in the dataset where the survey consent is stored: string
<code>consentForValidSurvey</code>	value defined in the kobo form to acknowledge the surveyed person gave his consent: string
<code>checkperiod</code>	if not null number of day before today when the check should be made

Value

result a list that includes: * `dst` same dataset as the inputed one but with survey marked for deletion if errors are found and `delete=TRUE` (or `NULL`) * `ret_log` list of the errors found (or `NULL`) * `var` a list of value (or `NULL`) * `graph` graphical representation of the results (or `NULL`)

Examples

```

load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
dsSite <- "union_name"
load(system.file("SampleSize.RData", package = "HighFrequencyChecks"))
sampleSizeTable <- SampleSize

sampleSizeTableSite <- "Union"
sampleSizeTableTarget <- "SS"
sampleSizeTableAvailable <- "TotPts" # Usually the Target + a buffer
surveyConsent <- "survey_consent"
consentForValidSurvey <- "yes" # consent value for yes

result <- assessmentTrackingSheet(ds = ds,
                                dsSite = dsSite,

```

```

sampleSizeTable = sampleSizeTable,
sampleSizeTableSite = sampleSizeTableSite,
sampleSizeTableTarget = sampleSizeTableTarget,
sampleSizeTableAvailable = sampleSizeTableAvailable,
surveyConsent = surveyConsent,
consentForValidSurvey = consentForValidSurvey)

knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])

```

enumeratorErrorsSummary

Create a dashboard displaying the number of errors by enumerators

Description

This function display the number of errors made by the enumerator, one graph is generated by enumerator showing for each

Usage

```
enumeratorErrorsSummary(enumeratorID = NULL, reports = NULL)
```

Arguments

enumeratorID	name of the field where the enumerator ID is stored: string
reports	reports names generated from the other checks included in this package, be sure when you choose the columns to be included in each report generated that the enumeratorID is selected before including the report as a parameter to this function: list of string(c(report1,report2,...))
surveyConsent	name of the field in the dataset where the survey consent is stored: string
consentForValidSurvey	value defined in the kobo form to acknowledge the surveyed person gave his consent: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```
# enumeratorID <- "enumerator_id"
# reports <- c( "isInterviewCompleted",
#             "isInterviewInTheCorrectSite",
#             "isInterviewTooShort",
#             "isInterviewTooShortForTheHouseholdSize",
#             "isInterviewWithConsent",
#             "isSurveyEndBeforeItStarts",
#             "isSurveyMadeInTheFuture",
#             "isSurveyOnMoreThanADay",
#             "isSurveyStartedBeforeTheAssessment",
#             "isuniquerespondantIDDuplicated",
#             "isuniquerespondantIDMissing")
#
# result <- enumeratorErrorsSummary(enumeratorID=enumeratorID,ds = ds,
#                                   # surveyDate=surveyDate,
#                                   # dateFormat=dateFormat,
#                                   # surveyConsent=surveyConsent
#                                   reports=reports)
#
# print(result[["graph"]])
```

enumeratorIsLazy	<i>Check the enumerators who pick up less than X answers per specific question</i>
------------------	--

Description

This function display the enumerators who picked up less than a specified amount of answers per specific question. This can be useful for select_multiple questions where respondent shall give at least 3 options for instance.

Usage

```
enumeratorIsLazy(
  ds = NULL,
  enumeratorID = NULL,
  questionsEnumeratorIsLazy = NULL
)
```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
enumeratorID	name of the field where the enumerator ID is stored: string
questionsEnumeratorIsLazy	columns name from the dataset and value you want to check against (c(col1=value1,col2=value2,...)): named list of integer the column name is the main part of the name generated by kobo (eg: for the question 'main_income', kobo will generate one

TRUE/FALSE column per possible answer as 'main_income.work', 'main_income.remittance' ..., only the main part 'main_income' has to be specified here)

checkperiod if not null number of day before today when the check should be made

surveyConsent name of the field in the dataset where the survey consent is stored: string

consentForValidSurvey
 value defined in the kobo form to acknowledge the surveyed person gave his consent: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
enumeratorID <- "enumerator_id"
questionsEnumeratorIsLazy <- c(consent_received.shelter_nfi.non_food_items=3,
                               consent_received.food_security.main_income=3,
                               consent_received.child_protection.boy_risk=3,
                               consent_received.child_protection.girl_risk=3)

result <- enumeratorIsLazy(ds = ds,
                           enumeratorID=enumeratorID,
                           questionsEnumeratorIsLazy=questionsEnumeratorIsLazy)

knitr::kable(head(result[["ret_log"]], 10))
```

enumeratorProductivity

Check the number of Interview by enumerator

Description

This function display the total number of survey made and the average per day per enumerator.

Usage

```
enumeratorProductivity(ds = NULL, surveyDate = NULL, enumeratorID = NULL)
```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
surveyDate	name of the field in the dataset where the date of the survey is stored: string
enumeratorID	name of the field where the enumerator ID is stored: string
checkperiod	if not null number of day before today when the check should be made
surveyConsent	name of the field in the dataset where the survey consent is stored: string
consentForValidSurvey	value defined in the kobo form to acknowledge the surveyed person gave his consent: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
surveyDate <- "survey_date"
enumeratorID <- "enumerator_id"

result <- enumeratorProductivity(ds = ds,
                                surveyDate=surveyDate,
                                enumeratorID=enumeratorID)

knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])
```

enumeratorProductivityOutliers

Check the enumerators with very low or high productivity

Description

This function display the enumerators with very low or high productivity.

Usage

```
enumeratorProductivityOutliers(
  ds = NULL,
  enumeratorID = NULL,
  surveyDate = NULL,
  sdval = 2
)
```

Arguments

<code>ds</code>	dataset containing the survey (from kobo): labelled data.frame
<code>enumeratorID</code>	name of the field where the enumerator ID is stored: string
<code>surveyDate</code>	name of the field in the dataset where the date of the survey is stored: string
<code>sdval</code>	(Optional, by default set to 2) number of standard deviation for which the data within is considered as acceptable: integer
<code>checkperiod</code>	if not null number of day before today when the check should be made

Value

result a list that includes: * `dst` same dataset as the inputed one but with survey marked for deletion if errors are found and `delete=TRUE` (or `NULL`) * `ret_log` list of the errors found (or `NULL`) * `var` a list of value (or `NULL`) * `graph` graphical representation of the results (or `NULL`)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
enumeratorID <- "enumerator_id"
surveyDate <- "survey_date"
sdval<-2

result <- enumeratorProductivityOutliers(ds = ds,
                                         enumeratorID=enumeratorID,
                                         surveyDate=surveyDate,
                                         sdval=sdval)

knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])
```

enumeratorSurveysConsent

Percentage of non-completed interviews by enumerator

Description

This function display the percentage of non-completed interviews per enumerator.

Usage

```
enumeratorSurveysConsent(ds = NULL, surveyConsent = NULL, enumeratorID = NULL)
```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
surveyConsent	name of the field in the dataset where the survey consent is stored: string
enumeratorID	name of the field where the enumerator ID is stored: string
checkperiod	if not null number of day before today when the check should be made
consentForValidSurvey	value defined in the kobo form to acknowledge the surveyed person gave his consent: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
surveyConsent <- "survey_consent"
enumeratorID <- "enumerator_id"

result <- enumeratorSurveysConsent(ds = ds,
                                   surveyConsent=surveyConsent,
                                   enumeratorID=enumeratorID)

knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])
```

enumeratorSurveysDuration

Check the average interview duration by enumerator

Description

This function display the average interview duration per enumerator.

Usage

```
enumeratorSurveysDuration(ds = NULL, dates = NULL, enumeratorID = NULL)
```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
dates	name of the fields where the information about the start and end date of the survey is stored: list of string (c('start_date','end_date'))
enumeratorID	name of the field where the enumerator ID is stored: string
checkperiod	if not null number of day before today when the check should be made
surveyConsent	name of the field in the dataset where the survey consent is stored: string
consentForValidSurvey	value defined in the kobo form to acknowledge the surveyed person gave his consent: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
dates <- c("survey_start", "end_survey")
enumeratorID <- "enumerator_id"
result <- enumeratorSurveysDuration(ds = ds,
                                   dates=dates,
                                   enumeratorID=enumeratorID)

knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])
```

isInterviewAtTheSamplePoint

GIS check surveys if fall without Xm radius from a sampled point

Description

This function check that all interviews in the dataset were made within a distance from a sampled point. It is based on a GIS shapefile providing the sample points for the assessment. The function is based on the GPS data filled in the survey to determine their location. There is an option to automatically mark for deletion the surveys which are to far away from a sampled point.

One internal function "make_GeodesicBuffer" used to create the buffers is created by Valentin <https://stackoverflow.com/users/5193830/valentin>

Usage

```
isInterviewAtTheSamplePoint(
  ds = NULL,
  dsCoordinates = NULL,
  sampledPoints = NULL,
  buffer = 10,
  surveyConsent = NULL,
  reportingColumns = c(enumeratorID, uniquerespondantID),
  deleteIsInterviewAtTheSamplePoint = FALSE
)
```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
dsCoordinates	name of the fields from the dataset where the information about the GPS coordinates are stored: list of string (c('Long','Lat'))
sampledPoints	dataset containing the shapefile of the households sampled - Regardless the projection used for the shapefile, it is transformed to WGS84
buffer	value in meter to determine the buffer from a sampled point which is acceptable: integer
surveyConsent	name of the field in the dataset where the survey consent is stored: string
reportingColumns	(Optional, by default it is built from the enumeratorID and the uniquerespondantID) name of the columns from the dataset you want in the result: list of string (c('col1','col2',...))
deleteIsInterviewAtTheSamplePoint	(Optional, by default set as FALSE) if TRUE, the survey in error will be marked as 'deletedIsInterviewAtTheSamplePoint': boolean (TRUE/FALSE)
checkperiod	if not null number of day before today when the check should be made
consentForValidSurvey	value defined in the kobo form to acknowledge the surveyed person gave his consent: string
uniquerespondantID	name of the field where the survey unique ID is stored: string
enumeratorID	name of the field where the enumerator ID is stored: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
```

```

load(system.file("SamplePts.RData", package = "HighFrequencyChecks"))
sampledPoints <- SamplePts

dsCoordinates <- c("X_gps_reading_longitude", "X_gps_reading_latitude")
buffer <- 10
surveyConsent <- "survey_consent"
uniquerespondantID <- "X_uuid"
enumeratorID <- "enumerator_id"
reportingColumns <- c(enumeratorID, uniquerespondantID)

# result <- isInterviewAtTheSamplePoint(ds = ds,
#                                     dsCoordinates = dsCoordinates,
#                                     sampledPoints=sampledPoints,
#                                     buffer=buffer,
#                                     surveyConsent=surveyConsent,
#                                     reportingColumns=reportingColumns,
#                                     deleteIsInterviewAtTheSamplePoint=FALSE)
# knitr::kable(head(result[["ret_log"]], 10))
# print(result[["graph"]])

```

isInterviewCompleted *Check that all interviews were completed*

Description

This function check that all interviews in the dataset are completed, meaning all the interviews have an end date and time. There is an option to automatically mark for deletion the surveys which have not an end date.

Usage

```

isInterviewCompleted(
  ds = NULL,
  surveyConsent = NULL,
  dates = NULL,
  reportingColumns = c(enumeratorID, uniquerespondantID),
  deleteIsInterviewCompleted = FALSE
)

```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
surveyConsent	name of the field in the dataset where the survey consent is stored: string
dates	name of the fields where the information about the start and end date of the survey is stored: list of string (c('start_date','end_date'))
reportingColumns	(Optional, by default it is built from the enumeratorID and the uniquerespondantID) name of the columns from the dataset you want in the result: list of string (c('col1','col2',...))

```

deleteIsInterviewCompleted
    (Optional, by default set as FALSE) if TRUE, the survey in error will be marked
    as 'deletedIsInterviewCompleted': boolean (TRUE/FALSE)

checkperiod    if not null number of day before today when the check should be made

consentForValidSurvey
    value defined in the kobo form to acknowledge the surveyed person gave his
    consent: string

uniquerespondantID
    name of the field where the survey unique ID is stored: string

enumeratorID   name of the field where the enumerator ID is stored: string

```

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```

load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
surveyConsent <- "survey_consent"
dates <- c("survey_start", "end_survey")
uniquerespondantID <- "X_uuid"
enumeratorID <- "enumerator_id"
reportingColumns <- c(enumeratorID, uniquerespondantID)

result <- isInterviewCompleted(ds = ds,
                              surveyConsent=surveyConsent,
                              dates=dates,
                              reportingColumns=reportingColumns,
                              deleteIsInterviewCompleted=FALSE)

knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])

```

isInterviewInTheCorrectSite

GIS check surveys for site

Description

This function check that all interviews in the dataset were made in the correct site. It is based on a GIS shapefile providing the boundaries of each site with their names. The function is based on the GPS data filled in the survey to determine their location. There is an option to automatically correct the site in the surveys whith the correct location.

Usage

```
isInterviewInTheCorrectSite(
  ds = NULL,
  dsSite = NULL,
  dsCoordinates = NULL,
  adminBoundaries = NULL,
  adminBoundariesSite = NULL,
  surveyConsent = NULL,
  reportingColumns = c(enumeratorID, uniquerespondantID),
  correctIsInterviewInTheCorrectSite = FALSE
)
```

Arguments

<code>ds</code>	dataset containing the survey (from kobo): labelled data.frame
<code>dsSite</code>	name of the field in the dataset where the site is stored: string
<code>dsCoordinates</code>	name of the fields from the dataset where the information about the GPS coordinates are stored: list of string (c('Long','Lat'))
<code>adminBoundaries</code>	dataset containing the shapefile of the site boundaries - Regardless the projection used for the shapefile, it is transformed to WGS84
<code>adminBoundariesSite</code>	name of the field in the shapefile where the site is stored: string
<code>surveyConsent</code>	name of the field in the dataset where the survey consent is stored: string
<code>reportingColumns</code>	(Optional, by default it is built from the enumeratorID and the uniquerespondantID) name of the columns from the dataset you want in the result: list of string (c('col1','col2',...))
<code>correctIsInterviewInTheCorrectSite</code>	(Optional, by default set as FALSE) if TRUE, the site in the survey which is wrong will be replaced by the real one: boolean (TRUE/FALSE)
<code>checkperiod</code>	if not null number of day before today when the check should be made
<code>consentForValidSurvey</code>	value defined in the kobo form to acknowledge the surveyed person gave his consent: string
<code>uniquerespondantID</code>	name of the field where the survey unique ID is stored: string
<code>enumeratorID</code>	name of the field where the enumerator ID is stored: string

Value

result a list that includes: * `dst` same dataset as the inputed one but with survey marked for deletion if errors are found and `delete=TRUE` (or `NULL`) * `ret_log` list of the errors found (or `NULL`) * `var` a list of value (or `NULL`) * `graph` graphical representation of the results (or `NULL`)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
dsSite <- "union_name"
dsCoordinates <- c("X_gps_reading_longitude", "X_gps_reading_latitude")
load(system.file("admin.RData", package = "HighFrequencyChecks"))
adminBoundaries <- admin
adminBoundariesSite <- "Union"
surveyConsent <- "survey_consent"
uniquerespondantID <- "X_uuid"
enumeratorID <- "enumerator_id"
reportingColumns <- c(enumeratorID, uniquerespondantID)

result <- isInterviewInTheCorrectSite(ds = ds,
                                     dsSite=dsSite,
                                     dsCoordinates = dsCoordinates,
                                     adminBoundaries=adminBoundaries,
                                     adminBoundariesSite=adminBoundariesSite,
                                     surveyConsent=surveyConsent,
                                     reportingColumns=reportingColumns,
                                     correctIsInterviewInTheCorrectSite=FALSE)

knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])
```

isInterviewTooShort	<i>Check that the duration of each interview is more than a threshold</i>
---------------------	---

Description

This function check that the duration of each interview is more than a specified threshold. There is an option to automatically mark for deletion the surveys which are under the threshold. Warning: If there are uncorrected mistakes in the survey dates, it can lead to have the length of the survey in seconds and this check will not performed well

Usage

```
isInterviewTooShort(
  ds = NULL,
  surveyConsent = NULL,
  dates = NULL,
  minimumSurveyDuration = 30,
  reportingColumns = c(enumeratorID, uniquerespondantID),
  deleteIsInterviewTooShort = FALSE
)
```

Arguments

<code>ds</code>	dataset containing the survey (from kobo): labelled data.frame
<code>surveyConsent</code>	name of the field in the dataset where the survey consent is stored: string
<code>dates</code>	name of the fields where the information about the start and end date of the survey is stored: list of string (c('start_date','end_date'))
<code>minimumSurveyDuration</code>	minimum acceptable survey duration in minutes: integer
<code>reportingColumns</code>	(Optional, by default it is built from the <code>enumeratorID</code> and the <code>uniquerespondantID</code>) name of the columns from the dataset you want in the result: list of string (c('col1','col2',...))
<code>deleteIsInterviewTooShort</code>	(Optional, by default set as FALSE) if TRUE, the survey in error will be marked as 'deletedIsInterviewTooShort': boolean (TRUE/FALSE)
<code>checkperiod</code>	if not null number of day before today when the check should be made
<code>consentForValidSurvey</code>	value defined in the kobo form to acknowledge the surveyed person gave his consent: string
<code>uniquerespondantID</code>	name of the field where the survey unique ID is stored: string
<code>enumeratorID</code>	name of the field where the enumerator ID is stored: string

Value

result a list that includes: * `dst` same dataset as the inputed one but with survey marked for deletion if errors are found and `delete=TRUE` (or `NULL`) * `ret_log` list of the errors found (or `NULL`) * `var` a list of value (or `NULL`) * `graph` graphical representation of the results (or `NULL`)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
surveyConsent <- "survey_consent"
dates <- c("survey_start", "end_survey")
uniquerespondantID <- "X_uuid"
enumeratorID <- "enumerator_id"
minimumSurveyDuration <- 30
reportingColumns <- c(enumeratorID, uniquerespondantID)

result <- isInterviewTooShort(ds = ds,
                             surveyConsent=surveyConsent,
                             dates=dates,
                             minimumSurveyDuration=minimumSurveyDuration,
                             reportingColumns=reportingColumns,
                             deleteIsInterviewTooShort=FALSE)

knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])
```

isInterviewTooShortForTheHouseholdSize

Check that the duration relative to the household size of each interview is more than a threshold

Description

This function check that the duration relative to the household size of each interview is more than a specified threshold. There is an option to automatically mark for deletion the surveys which are under the threshold. Warning: If there are uncorrected mistakes in the survey dates, it can lead to have the length of the survey in seconds and this check will not performed well

Usage

```
isInterviewTooShortForTheHouseholdSize(
  ds = NULL,
  surveyConsent = NULL,
  dates = NULL,
  householdSize = NULL,
  minimumSurveyDurationByIndividual = 10,
  reportingColumns = c(enumeratorID, uniquerespondantID),
  deleteIsInterviewTooShortForTheHouseholdSize = FALSE
)
```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
surveyConsent	name of the field in the dataset where the survey consent is stored: string
dates	name of the fields where the information about the start and end date of the survey is stored: list of string (c('start_date','end_date'))
householdSize	name of the field in the dataset where the household size is stored: string
minimumSurveyDurationByIndividual	minimum acceptable survey duration for one individual in minutes: integer
reportingColumns	(Optional, by default it is built from the enumeratorID and the uniquerespondantID) name of the columns from the dataset you want in the result: list of string (c('col1','col2',...))
deleteIsInterviewTooShortForTheHouseholdSize	(Optional, by default set as FALSE) if TRUE, the survey in error will be marked as 'deletedIsInterviewTooShortForTheHouseholdSize': boolean (TRUE/FALSE)
checkperiod	if not null number of day before today when the check should be made
consentForValidSurvey	value defined in the kobo form to acknowledge the surveyed person gave his consent: string

uniquerespondantID name of the field where the survey unique ID is stored: string
 enumeratorID name of the field where the enumerator ID is stored: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```

load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
surveyConsent <- "survey_consent"
dates <- c("survey_start", "end_survey")
householdSize <- "consent_received.respondent_info.hh_size"
uniquerespondantID <- "X_uuid"
enumeratorID <- "enumerator_id"
minimumSurveyDurationByIndividual <- 10
reportingColumns <- c(enumeratorID, uniquerespondantID)

result <- isInterviewTooShortForTheHouseholdSize(ds = ds,
                                                  surveyConsent=surveyConsent,
                                                  dates=dates,
                                                  householdSize=householdSize,
                                                  minimumSurveyDurationByIndividual=minimumSurveyDurationByIndividual,
                                                  reportingColumns=reportingColumns,
                                                  deleteIsInterviewTooShortForTheHouseholdSize=FALSE)
knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])
  
```

isInterviewWithConsent

Check that all surveys have consent

Description

This function check that all interviews in the dataset have information about the consent of the people surveyed, meaning all the field where this information is stored is not empty. There is an option to automatically mark for deletion the surveys which have not consent information.

Usage

```

isInterviewWithConsent(
  ds = NULL,
  surveyConsent = NULL,
  reportingColumns = c(enumeratorID, uniquerespondantID),
  deleteIsInterviewWithConsent = FALSE
)
  
```

Arguments

ds dataset containing the survey (from kobo): labelled data.frame

surveyConsent name of the field in the dataset where the survey consent is stored: string

reportingColumns (Optional, by default it is built from the enumeratorID and the uniquerespondantID) name of the columns from the dataset you want in the result: list of string (c('col1','col2',...))

deleteIsInterviewWithConsent (Optional, by default set as FALSE) if TRUE, the survey in error will be marked as 'deletedIsInterviewWithConsent': boolean (TRUE/FALSE)

checkperiod if not null number of day before today when the check should be made

consentForValidSurvey value defined in the kobo form to acknowledge the surveyed person gave his consent: string

uniquerespondantID name of the field where the survey unique ID is stored: string

enumeratorID name of the field where the enumerator ID is stored: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
surveyConsent <- "survey_consent"
uniquerespondantID <- "X_uuid"
enumeratorID <- "enumerator_id"
reportingColumns <- c(enumeratorID, uniquerespondantID)

result <- isInterviewWithConsent(ds = ds,
                                surveyConsent=surveyConsent,
                                reportingColumns=reportingColumns,
                                deleteIsInterviewWithConsent=FALSE)
knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])
```

isSurveyEndBeforeItStarts

Surveys where end date/time is before the start date/time

Description

This function check that all interviews in the dataset start before they end. There is an option to automatically mark for deletion the surveys which have an ending date/time before the starting ones.

Usage

```
isSurveyEndBeforeItStarts(
  ds = NULL,
  surveyConsent = NULL,
  dates = NULL,
  reportingColumns = c(enumeratorID, uniquerespondantID),
  deleteIsSurveyEndBeforeItStarts = FALSE
)
```

Arguments

<code>ds</code>	dataset containing the survey (from kobo): labelled data.frame
<code>surveyConsent</code>	name of the field in the dataset where the survey consent is stored: string
<code>dates</code>	name of the fields where the information about the start and end date of the survey is stored: list of string (c('start_date','end_date'))
<code>reportingColumns</code>	(Optional, by default it is built from the enumeratorID and the uniquerespondantID) name of the columns from the dataset you want in the result: list of string (c('col1','col2',...))
<code>deleteIsSurveyEndBeforeItStarts</code>	(Optional, by default set as FALSE) if TRUE, the survey in error will be marked as 'deletedIsSurveyEndBeforeItStarts': boolean (TRUE/FALSE)
<code>consentForValidSurvey</code>	value defined in the kobo form to acknowledge the surveyed person gave his consent: string
<code>uniquerespondantID</code>	name of the field where the survey unique ID is stored: string
<code>enumeratorID</code>	name of the field where the enumerator ID is stored: string

Value

result a list that includes: * `dst` same dataset as the inputed one but with survey marked for deletion if errors are found and `delete=TRUE` (or `NULL`) * `ret_log` list of the errors found (or `NULL`) * `var` a list of value (or `NULL`) * `graph` graphical representation of the results (or `NULL`)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
surveyConsent <- "survey_consent"
dates <- c("survey_start", "end_survey")
uniquerespondantID <- "X_uuid"
enumeratorID <- "enumerator_id"
```

```
reportingColumns <- c(enumeratorID, uniquerespondantID)

result <- isSurveyEndBeforeItStarts(ds = ds,
                                   surveyConsent=surveyConsent,
                                   dates=dates,
                                   reportingColumns=reportingColumns,
                                   deleteIsSurveyEndBeforeItStarts=FALSE)
knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])
```

isSurveyMadeInTheFuture

Surveys that have start date/time after system date

Description

This function check that all interviews in the dataset do not start after the current date. There is an option to automatically mark for deletion the surveys which have a start date in the future.

Usage

```
isSurveyMadeInTheFuture(
  ds = NULL,
  surveyConsent = NULL,
  dates = NULL,
  reportingColumns = c(enumeratorID, uniquerespondantID),
  deleteIsSurveyMadeInTheFuture = FALSE
)
```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
surveyConsent	name of the field in the dataset where the survey consent is stored: string
dates	name of the fields where the information about the start and end date of the survey is stored: list of string (c('start_date','end_date'))
reportingColumns	(Optional, by default it is built from the enumeratorID and the uniquerespondantID) name of the columns from the dataset you want in the result: list of string (c('col1','col2',...))
deleteIsSurveyMadeInTheFuture	(Optional, by default set as FALSE) if TRUE, the survey in error will be marked as 'deletedIsSurveyMadeInTheFuture': boolean (TRUE/FALSE)
checkperiod	if not null number of day before today when the check should be made
consentForValidSurvey	value defined in the kobo form to acknowledge the surveyed person gave his consent: string

```

uniquerespondantID
    name of the field where the survey unique ID is stored: string
enumeratorID      name of the field where the enumerator ID is stored: string

```

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```

load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
dates <- c("survey_start", "end_survey")
surveyConsent <- "survey_consent"
uniquerespondantID <- "X_uuid"
enumeratorID <- "enumerator_id"
reportingColumns <- c(enumeratorID, uniquerespondantID)

result <- isSurveyMadeInTheFuture(ds = ds,
                                   surveyConsent=surveyConsent,
                                   dates=dates,
                                   reportingColumns=reportingColumns,
                                   deleteIsSurveyMadeInTheFuture = FALSE)

knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])

```

isSurveyOnMoreThanADay

Surveys that do not end on the same day as they started

Description

This function check that all interviews in the dataset start and end the same day. There is an option to automatically mark for deletion the surveys which have different starting and ending dates.

Usage

```

isSurveyOnMoreThanADay(
  ds = NULL,
  surveyConsent = NULL,
  dates = NULL,
  reportingColumns = c(enumeratorID, uniquerespondantID),
  deleteIsSurveyOnMoreThanADay = FALSE
)

```

Arguments

<code>ds</code>	dataset containing the survey (from kobo): labelled data.frame
<code>surveyConsent</code>	name of the field in the dataset where the survey consent is stored: string
<code>dates</code>	name of the fields where the information about the start and end date of the survey is stored: list of string (c('start_date','end_date'))
<code>reportingColumns</code>	(Optional, by default it is built from the <code>enumeratorID</code> and the <code>uniquerespondantID</code>) name of the columns from the dataset you want in the result: list of string (c('col1','col2',...))
<code>deleteIsSurveyOnMoreThanADay</code>	(Optional, by default set as FALSE) if TRUE, the survey in error will be marked as 'deletedIsSurveyOnMoreThanADay': boolean (TRUE/FALSE)
<code>consentForValidSurvey</code>	value defined in the kobo form to acknowledge the surveyed person gave his consent: string
<code>uniquerespondantID</code>	name of the field where the survey unique ID is stored: string
<code>enumeratorID</code>	name of the field where the enumerator ID is stored: string

Value

result a list that includes: * `dst` same dataset as the inputed one but with survey marked for deletion if errors are found and `delete=TRUE` (or NULL) * `ret_log` list of the errors found (or NULL) * `var` a list of value (or NULL) * `graph` graphical representation of the results (or NULL)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
surveyConsent <- "survey_consent"
dates <- c("survey_start", "end_survey")
uniquerespondantID <- "X_uuid"
enumeratorID <- "enumerator_id"
reportingColumns <- c(enumeratorID, uniquerespondantID)

result <- isSurveyOnMoreThanADay(ds = ds,
                                surveyConsent=surveyConsent,
                                dates=dates,
                                reportingColumns=reportingColumns,
                                deleteIsSurveyOnMoreThanADay=FALSE)

knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])
```

isSurveyStartedBeforeTheAssessment

Surveys that show start date earlier than first day of data collection

Description

This function check that all interviews in the dataset start after the actual first day of data collection. There is an option to automatically mark for deletion the surveys which have started before the first day of data collection.

Usage

```
isSurveyStartedBeforeTheAssessment(
  ds = NULL,
  dates = NULL,
  surveyConsent = NULL,
  startDataCollection = NULL,
  reportingColumns = c(enumeratorID, uniquerespondantID),
  deleteIsSurveyStartedBeforeTheAssessment = FALSE
)
```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
dates	name of the fields where the information about the start and end date of the survey is stored: list of string (c('start_date','end_date'))
surveyConsent	name of the field in the dataset where the survey consent is stored: string
startDataCollection	date of the first day of the data collection: string ('yyyy-mm-dd')
reportingColumns	(Optional, by default it is built from the enumeratorID and the uniquerespondantID) name of the columns from the dataset you want in the result: list of string (c('col1','col2',...))
deleteIsSurveyStartedBeforeTheAssessment	(Optional, by default set as FALSE) if TRUE, the survey in error will be marked as 'deletedIsSurveyStartedBeforeTheAssessment': boolean (TRUE/FALSE)
checkperiod	if not null number of day before today when the check should be made
consentForValidSurvey	value defined in the kobo form to acknowledge the surveyed person gave his consent: string
uniquerespondantID	name of the field where the survey unique ID is stored: string
enumeratorID	name of the field where the enumerator ID is stored: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
dates <- c("survey_start", "end_survey")
surveyConsent <- "survey_consent"
startDataCollection <- "2018-11-11"
uniquerespondantID <- "X_uuid"
enumeratorID <- "enumerator_id"
reportingColumns <- c(enumeratorID, uniquerespondantID)

result <- isSurveyStartedBeforeTheAssessment(
  ds = ds,
  dates=dates,
  surveyConsent=surveyConsent,
  startDataCollection=startDataCollection,
  reportingColumns=reportingColumns,
  deleteIsSurveyStartedBeforeTheAssessment = FALSE)
knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])
```

isuniquerespondantIDDuplicated

Duplicates in unique ID

Description

This function check that all interviews in the dataset have an ID which is unique. There is an option to automatically mark for deletion the surveys which have a duplicated unique ID.

Usage

```
isuniquerespondantIDDuplicated(
  ds = NULL,
  uniquerespondantID = NULL,
  surveyConsent = NULL,
  attempt = NULL,
  reportingColumns = c(enumeratorID, uniquerespondantID, attempt),
  deleteIsuniquerespondantIDDuplicated = FALSE
)
```

Arguments

<code>ds</code>	dataset containing the survey (from kobo): labelled data.frame
<code>uniquerespondantID</code>	name of the field where the survey unique ID is stored: string
<code>surveyConsent</code>	name of the field in the dataset where the survey consent is stored: string
<code>attempt</code>	name of the field in the dataset where the interview attempt output is stored: string
<code>reportingColumns</code>	(Optional, by default it is built from the <code>enumeratorID</code> and the <code>uniquerespondantID</code>) name of the columns from the dataset you want in the result: list of string (c('col1','col2',...))
<code>deleteIsuniquerespondantIDDuplicated</code>	(Optional, by default set as FALSE) if TRUE, the survey in error will be marked as 'deletedIsuniquerespondantIDDuplicated': boolean (TRUE/FALSE)
<code>checkperiod</code>	if not null number of day before today when the check should be made
<code>consentForValidSurvey</code>	value defined in the kobo form to acknowledge the surveyed person gave his consent: string
<code>enumeratorID</code>	name of the field where the enumerator ID is stored: string

Value

result a list that includes: * `dst` same dataset as the inputed one but with survey marked for deletion if errors are found and `delete=TRUE` (or `NULL`) * `ret_log` list of the errors found (or `NULL`) * `var` a list of value (or `NULL`) * `graph` graphical representation of the results (or `NULL`)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
uniquerespondantID <- "X_uuid"
surveyConsent <- "survey_consent"
enumeratorID <- "enumerator_id"
reportingColumns <- c(enumeratorID, uniquerespondantID)

result <- isuniquerespondantIDDuplicated(ds = ds,
                                       uniquerespondantID=uniquerespondantID,
                                       surveyConsent=surveyConsent,
                                       reportingColumns=reportingColumns,
                                       deleteIsuniquerespondantIDDuplicated=FALSE)
knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])
```

isuniquerespondantIDMissing
Missing unique ID

Description

This function check that all interviews in the dataset have an ID. There is an option to automatically mark for deletion the surveys which have not an ID.

Usage

```
isuniquerespondantIDMissing(
  ds = NULL,
  uniquerespondantID = NULL,
  surveyConsent = NULL,
  reportingColumns = c(enumeratorID, uniquerespondantID),
  deleteIsuniquerespondantIDMissing = FALSE
)
```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
uniquerespondantID	name of the field where the survey unique ID is stored: string
surveyConsent	name of the field in the dataset where the survey consent is stored: string
reportingColumns	(Optional, by default it is built from the enumeratorID and the uniquerespondantID) name of the columns from the dataset you want in the result: list of string (c('coll','col2',...))
deleteIsuniquerespondantIDMissing	(Optional, by default set as FALSE) if TRUE, the survey in error will be marked as 'deletedIsuniquerespondantIDMissing': boolean (TRUE/FALSE)
consentForValidSurvey	value defined in the kobo form to acknowledge the surveyed person gave his consent: string
enumeratorID	name of the field where the enumerator ID is stored: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
uniquerespondantID <- "X_uuid"
surveyConsent <- "survey_consent"
enumeratorID <- "enumerator_id"
reportingColumns <- c(enumeratorID, uniquerespondantID)

result <- isuniquerespondantIDMissing(ds = ds,
                                     uniquerespondantID=uniquerespondantID,
                                     surveyConsent=surveyConsent,
                                     reportingColumns=reportingColumns,
                                     deleteIsuniquerespondantIDMissing=FALSE)
knitr::kable(head(result[["ret_log"]], 10))
print(result[["graph"]])
```

run_app

Run the Shiny Application

Description

Run the Shiny Application

Usage

```
run_app(
  onStart = NULL,
  options = list(),
  enableBookmarking = NULL,
  uiPattern = "/",
  ...
)
```

Arguments

- | | |
|-------------------|---|
| onStart | A function that will be called before the app is actually run. This is only needed for shinyAppObj, since in the shinyAppDir case, a global.R file can be used for this purpose. |
| options | Named options that should be passed to the runApp call (these can be any of the following: "port", "launch.browser", "host", "quiet", "display.mode" and "test.mode"). You can also specify width and height parameters which provide a hint to the embedding environment about the ideal height/width for the app. |
| enableBookmarking | Can be one of "url", "server", or "disable". The default value, NULL, will respect the setting from any previous calls to enableBookmarking() . See enableBookmarking() for more information on bookmarking your app. |

uiPattern	A regular expression that will be applied to each GET request to determine whether the ui should be used to handle the request. Note that the entire request path must match the regular expression in order for the match to be considered successful.
...	arguments to pass to golem_opts. See ‘?golem::get_golem_options’ for more details.

Value

a shiny app

Examples

```
# run_app()
```

surveyBigValues	<i>Report the values greater than a specified value per specified fields</i>
-----------------	--

Description

This function provide a report showing all values which are greater than a certain threshold for a specified list of fields.

Usage

```
surveyBigValues(
  ds = NULL,
  questionsSurveyBigValues = NULL,
  enumeratorID = NULL,
  reportingColumns = c(enumeratorID, uniquerespondantID),
  enumeratorCheck = FALSE
)
```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
questionsSurveyBigValues	columns name from the dataset and value you want to check against (c(col1=value1,col2=value2,...)); named list of integer
enumeratorID	name of the field where the enumerator ID is stored: string
reportingColumns	(Optional, by default it is built from the enumeratorID and the uniquerespondantID) name of the columns from the dataset you want in the result: list of string (c('col1','col2',...))
enumeratorCheck	(Optional, by default set to FALSE) specify if the report has to be displayed for each enumerator or not: boolean (TRUE/FALSE)

checkperiod if not null number of day before today when the check should be made
 surveyConsent name of the field in the dataset where the survey consent is stored: string
 consentForValidSurvey
 value defined in the kobo form to acknowledge the surveyed person gave his
 consent: string
 uniquerespondantID
 name of the field where the survey unique ID is stored: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion
 if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var
 a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```

load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
questionsSurveyBigValues <-c(consent_received.food_security.spend_food=25000,
                             consent_received.food_security.spend_medication=25000,
                             consent_received.food_security.spend_education=25000,
                             consent_received.food_security.spend_fix_shelter=25000,
                             consent_received.food_security.spend_clothing=25000,
                             consent_received.food_security.spend_hygiene=25000,
                             consent_received.food_security.spend_fuel=25000,
                             consent_received.food_security.spend_hh_items=25000,
                             consent_received.food_security.spend_transport=25000,
                             consent_received.food_security.spend_communication=25000,
                             consent_received.food_security.spend_tobacco=25000,
                             consent_received.food_security.spend_rent=25000,
                             consent_received.food_security.spend_debts=25000,
                             consent_received.food_security.spend_other=25000)

enumeratorID <- "enumerator_id"
uniquerespondantID <- "X_uuid"
reportingColumns <- c(enumeratorID, uniquerespondantID)

result <- surveyBigValues(ds = ds,
                          questionsSurveyBigValues=questionsSurveyBigValues,
                          enumeratorID=enumeratorID,
                          reportingColumns=reportingColumns,
                          enumeratorCheck=FALSE)

knitr::kable(head(result[["ret_log"]], 10))
  
```

surveyDistinctValues	<i>Number of distinct values (not missing) per fields</i>
----------------------	---

Description

This function provide a report showing the number of distinct values for each fields. This report
 can be global (all the surveys) or displayed for each enumerator ID

Usage

```
surveyDistinctValues(ds = NULL, enumeratorID = NULL, enumeratorCheck = FALSE)
```

Arguments

ds dataset containing the survey (from kobo): labelled data.frame

enumeratorID name of the field where the enumerator ID is stored: string

enumeratorCheck (Optional, by default set to FALSE) specify if the report has to be displayed for each enumerator or not: boolean (TRUE/FALSE)

checkperiod if not null number of day before today when the check should be made

surveyConsent name of the field in the dataset where the survey consent is stored: string

consentForValidSurvey value defined in the kobo form to acknowledge the surveyed person gave his consent: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
enumeratorID <- "enumerator_id"

result <- surveyDistinctValues(ds = ds,
                               enumeratorID=enumeratorID,
                               enumeratorCheck=FALSE)

knitr::kable(head(result[["ret_log"]], 10))
```

surveyMissingValues *Report the percentage of missing values (NA) per fields*

Description

This function provide a report showing the percentage of missing values (NA) for each fields. This report can be global (all the surveys) or displayed for each enumerator ID

Usage

```
surveyMissingValues(ds = NULL, enumeratorID = NULL, enumeratorCheck = FALSE)
```

Arguments

ds dataset containing the survey (from kobo): labelled data.frame
enumeratorID name of the field where the enumerator ID is stored: string
enumeratorCheck (Optional, by default set to FALSE) specify if the report has to be displayed for each enumerator or not: boolean (TRUE/FALSE)
checkperiod if not null number of day before today when the check should be made
surveyConsent name of the field in the dataset where the survey consent is stored: string
consentForValidSurvey value defined in the kobo form to acknowledge the surveyed person gave his consent: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```

load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
enumeratorID <- "enumerator_id"

result <- surveyMissingValues(ds = ds,
                              enumeratorID=enumeratorID,
                              enumeratorCheck=FALSE)

knitr::kable(head(result[["ret_log"]], 10))
  
```

surveyOtherValues	<i>List of other distinct values (not missing) per fields other with count</i>
-------------------	--

Description

This function provide a report showing all distinct other values and the number of occurrences for each fields "other". This report can be global (all the surveys) or displayed for each enumerator ID

Usage

```

surveyOtherValues(
  ds = NULL,
  otherPattern = NULL,
  enumeratorID = NULL,
  enumeratorCheck = FALSE
)
  
```

Arguments

<code>ds</code>	dataset containing the survey (from kobo): labelled data.frame
<code>otherPattern</code>	pattern to identify the fields containing others values (eg: <code>'_other\$'</code>): string
<code>enumeratorID</code>	name of the field where the enumerator ID is stored: string
<code>enumeratorCheck</code>	(Optional, by default set to FALSE) specify if the report has to be displayed for each enumerator or not: boolean (TRUE/FALSE)
<code>checkperiod</code>	if not null number of day before today when the check should be made
<code>surveyConsent</code>	name of the field in the dataset where the survey consent is stored: string
<code>consentForValidSurvey</code>	value defined in the kobo form to acknowledge the surveyed person gave his consent: string

Value

result a list that includes: * `dst` same dataset as the inputed one but with survey marked for deletion if errors are found and `delete=TRUE` (or `NULL`) * `ret_log` list of the errors found (or `NULL`) * `var` a list of value (or `NULL`) * `graph` graphical representation of the results (or `NULL`)

Examples

```
load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
otherPattern <- "_other"
enumeratorID <- "enumerator_id"

result <- surveyOtherValues(ds = ds,
                           otherPattern=otherPattern,
                           enumeratorID=enumeratorID,
                           enumeratorCheck=FALSE)
knitr::kable(head(result[["ret_log"]], 10))
```

surveyOutliers

Report the outlier values for all numerical field

Description

This function provide a report showing all outlier values for each numerical fields. The function will try to automatically determine the type of distribution (between Normal and Log-Normal) based on the difference between mean and median between untransformed normalized and log transformed normalized distribution.

Usage

```
surveyOutliers(
  ds = NULL,
  enumeratorID = NULL,
  sdval = 2,
  reportingColumns = c(enumeratorID, uniquerespondantID),
  enumeratorCheck = FALSE
)
```

Arguments

<code>ds</code>	dataset containing the survey (from kobo): labelled data.frame
<code>enumeratorID</code>	name of the field where the enumerator ID is stored: string
<code>sdval</code>	(Optional, by default set to 2) number of standard deviation for which the data within is considered as acceptable: integer
<code>reportingColumns</code>	(Optional, by default it is built from the <code>enumeratorID</code> and the <code>uniquerespondantID</code>) name of the columns from the dataset you want in the result: list of string (c('coll','col2',...))
<code>enumeratorCheck</code>	(Optional, by default set to FALSE) specify if the report has to be displayed for each enumerator or not: boolean (TRUE/FALSE)
<code>checkperiod</code>	if not null number of day before today when the check should be made
<code>surveyConsent</code>	name of the field in the dataset where the survey consent is stored: string
<code>consentForValidSurvey</code>	value defined in the kobo form to acknowledge the surveyed person gave his consent: string
<code>uniquerespondantID</code>	name of the field where the survey unique ID is stored: string

Value

`dst` same dataset as the inputed one but with survey marked for deletion if errors are found and `delete=TRUE` (or `NULL`)

`ret_log` list of the errors found (or `NULL`)

`var` a list of value (or `NULL`)

`graph` graphical representation of the results (or `NULL`)

surveySmallValues	<i>Report the values lower than a specified value per specified fields</i>
-------------------	--

Description

This function provide a report showing all values which are lower than a certain threshold for a specified list of fields.

Usage

```
surveySmallValues(
  ds = NULL,
  questionsSurveySmallValues = NULL,
  enumeratorID = NULL,
  reportingColumns = c(enumeratorID, uniquerespondantID),
  enumeratorCheck = FALSE
)
```

Arguments

ds	dataset containing the survey (from kobo): labelled data.frame
questionsSurveySmallValues	columns name from the dataset and value you want to check against (c(col1=value1,col2=value2,...)): named list of integer
enumeratorID	name of the field where the enumerator ID is stored: string
reportingColumns	(Optional, by default it is built from the enumeratorID and the uniquerespondantID) name of the columns from the dataset you want in the result: list of string (c('col1','col2',...))
enumeratorCheck	(Optional, by default set to FALSE) specify if the report has to be displayed for each enumerator or not: boolean (TRUE/FALSE)
checkperiod	if not null number of day before today when the check should be made
surveyConsent	name of the field in the dataset where the survey consent is stored: string
consentForValidSurvey	value defined in the kobo form to acknowledge the surveyed person gave his consent: string
uniquerespondantID	name of the field where the survey unique ID is stored: string

Value

result a list that includes: * dst same dataset as the inputed one but with survey marked for deletion if errors are found and delete=TRUE (or NULL) * ret_log list of the errors found (or NULL) * var a list of value (or NULL) * graph graphical representation of the results (or NULL)

Examples

```

load(system.file("sample_dataset.RData", package = "HighFrequencyChecks"))
ds <- sample_dataset
questionsSurveySmallValues <-c(consent_received.food_security.spend_food=25000,
                                consent_received.food_security.spend_medication=25000,
                                consent_received.food_security.spend_education=25000,
                                consent_received.food_security.spend_fix_shelter=25000,
                                consent_received.food_security.spend_clothing=25000,
                                consent_received.food_security.spend_hygiene=25000,
                                consent_received.food_security.spend_fuel=25000,
                                consent_received.food_security.spend_hh_items=25000,
                                consent_received.food_security.spend_transport=25000,
                                consent_received.food_security.spend_communication=25000,
                                consent_received.food_security.spend_tobacco=25000,
                                consent_received.food_security.spend_rent=25000,
                                consent_received.food_security.spend_debts=25000,
                                consent_received.food_security.spend_other=25000)

enumeratorID <- "enumerator_id"
uniquerespondantID <- "X_uuid"
reportingColumns <- c(enumeratorID, uniquerespondantID)

result <- surveySmallValues(ds = ds,
                             questionsSurveySmallValues=questionsSurveySmallValues,
                             enumeratorID=enumeratorID,
                             reportingColumns=reportingColumns,
                             enumeratorCheck=FALSE)
knitr::kable(head(result[["ret_log"]], 10))

```

Index

assessmentDailyValidSurveys, [3](#)
assessmentDuration, [4](#)
assessmentDurationOutliers, [5](#)
assessmentInterviewTime, [6](#)
assessmentProductivity, [7](#)
assessmentTrackingSheet, [8](#)

enableBookmarking(), [34](#)
enumeratorErrorsSummary, [10](#)
enumeratorIsLazy, [11](#)
enumeratorProductivity, [12](#)
enumeratorProductivityOutliers, [13](#)
enumeratorSurveysConsent, [14](#)
enumeratorSurveysDuration, [15](#)

isInterviewAtTheSamplePoint, [16](#)
isInterviewCompleted, [18](#)
isInterviewInTheCorrectSite, [19](#)
isInterviewTooShort, [21](#)
isInterviewTooShortForTheHouseholdSize,
 [23](#)
isInterviewWithConsent, [24](#)
isSurveyEndBeforeItStarts, [25](#)
isSurveyMadeInTheFuture, [27](#)
isSurveyOnMoreThanADay, [28](#)
isSurveyStartedBeforeTheAssessment, [30](#)
isuniquerispondantIDDuplicated, [31](#)
isuniquerispondantIDMissing, [33](#)

run_app, [34](#)

surveyBigValues, [35](#)
surveyDistinctValues, [36](#)
surveyMissingValues, [37](#)
surveyOtherValues, [38](#)
surveyOutliers, [39](#)
surveySmallValues, [41](#)