

Package: quiveR (via r-universe)

September 26, 2024

Title A set of tools for interacting with KoBo and analyzing datasets from it

Version 0.0.0.9003

Description A set of tools for interacting with KoBo and analyzing datasets from it.

License MIT + file LICENSE

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.1

Imports cli, dplyr, glue, here, httr, httr2, magrittr, readxl, rlang, stringr, styler, tidyr

Depends R (>= 2.10)

LazyData true

Suggests assertthat, janitor, testthat (>= 3.0.0), tibble, usethis

Config/testthat/edition 3

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

RemoteUrl <https://github.com/iyedg/quiveR>

RemoteRef HEAD

RemoteSha 74df378358dee794d3f3b038de954786cb311140

Contents

generate_changelog	2
get_question_columns	3
harmonized_municipality_names	3
harmonized_neighborhood_names	4
kobo_download_dataset	4
kobo_parse_expression	5
lby_districts	6
lby_msna2021	6
lby_msna2021_choices	7

lby_msna2021_survey	7
lby_municipalities	8
lby_regions	8

Index	10
--------------	-----------

generate_changelog	<i>Generate a changelog from two data frames.</i>
--------------------	---

Description

Generate a changelog from two data frames.

Usage

```
generate_changelog(
  .x,
  .y,
  id_cols,
  names_to = "question",
  .x_values_to = "raw_value",
  .y_values_to = "transformed_value"
)
```

Arguments

.x	data frame x
.y	data frame y
id_cols	columns common between x and y that uniquely identify observations
names_to	name of the column containing the pivoted column names
.x_values_to	name of the column containing values from x
.y_values_to	name of the column containing values from y

Value

data frame

get_question_columns *Get the columns corresponding to a select multiple question*

Description

Get the columns corresponding to a select multiple question

Usage

```
get_question_columns(.df, question_label, group_sep = "/")
```

Arguments

.df The survey data frame
question_label The label of the question
group_sep The group separator used in the KoBo export

Value

A list of columns that correspond to each individual possible choice for question_label

Examples

```
get_question_columns(lby_msna2021, "safety_concerns")  
get_question_columns(lby_msna2021, "safety_concerns_boys")  
get_question_columns(lby_msna2021, "safety_concerns_girls")
```

harmonized_municipality_names
Harmonized names for Libyan Municipality names

Description

A mapping of Libyan Municipality names and a harmonized name used by REACH for that Municipality.

Usage

```
harmonized_municipality_names
```

Format

An object of class character of length 8.

Source

[reach](#)

harmonized_neighborhood_names

Harmonized names for Libyan Neighborhood names

Description

A mapping of Libyan Neighborhood names and a harmonized name used by REACH for that Neighborhood.

Usage

```
harmonized_neighborhood_names
```

Format

An object of class character of length 2.

Source

```
reach
```

kobo_download_dataset *Download survey responses as a dataset*

Description

Download survey responses as a dataset

Usage

```
kobo_download_dataset(  
  server_url = "https://kobo.humanitarianresponse.info",  
  type = "xls",  
  lang = "English",  
  fields_from_all_versions = TRUE,  
  group_sep = "/",  
  asset_uid,  
  user_name,  
  user_password,  
  file_path,  
  max_retries = 12  
)
```

Arguments

server_url	URL of the KoBo Server
type	Filetype for the export
lang	Language of the labels used in the export. Can be 'xls'
fields_from_all_versions	Whether to include fields from all versions of the survey
group_sep	The character separator for groups
asset_uid	The UUID of the survey
user_name	The User Name
user_password	The Password
file_path	The file path to which the dataset is saved
max_retries	The number of retries when downloading

kobo_parse_expression *Parse a KoBo expression into R.*

Description

Parse a KoBo expression into R.

Usage

```
kobo_parse_expression(statement, as_string = FALSE)
```

Arguments

statement	a string representing a KoBo expression
as_string	whether to transform the result of parsing into an expression

Value

an R expression or its string representation

Examples

```
kobo_parse_expression("${hoh}")
kobo_parse_expression("${hoh}", as_string = TRUE)
kobo_parse_expression("selected(${hoh}, 'no')")
kobo_parse_expression("selected(${hoh}, 'no')", as_string = TRUE)
lby_msna2021 %>%
  dplyr::filter(!kobo_parse_expression("selected(${hoh}, 'no')")) %>%
  dplyr::distinct(hoh)
```

lby_districts	<i>Libyan Districts</i>
---------------	-------------------------

Description

A dataset containing the identifiers as well as the Arabic and English names of Libyan Districts

Usage

lby_districts

Format

An object of class `data.frame` with 22 rows and 4 columns.

Details

district_id A unique identifier for the District
district_name_ar The Districts' name in Arabic
district_name_en The Districts' name in English
district_region_id The region to which the Districts belongs

Source

[reach](#)

lby_msna2021	<i>REACH Libya MSNA 2021 Dataset (Refugee and Migrant Population)</i>
--------------	---

Description

In response to a lack of recent data on the humanitarian situation in Libya, REACH conducted a multi-sectoral needs assessment (MSNA) from June-July 2021 to provide timely information on the needs and vulnerabilities of refugees and migrants. REACH designed the data collection and analysis tools, and consulted with all sectors and working groups active in the Libyan response to revise indicators.

Usage

lby_msna2021

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 1554 rows and 690 columns.

Source

[REACH Resource Centre](#)

lby_msna2021_choices *REACH Libya MSNA 2021 Choices (Refugee and Migrant Population)*

Description

In response to a lack of recent data on the humanitarian situation in Libya, REACH conducted a multi-sectoral needs assessment (MSNA) from June-July 2021 to provide timely information on the needs and vulnerabilities of refugees and migrants. REACH designed the data collection and analysis tools, and consulted with all sectors and working groups active in the Libyan response to revise indicators.

Usage

lby_msna2021_choices

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 1351 rows and 7 columns.

Source

[REACH Resource Centre](#)

lby_msna2021_survey *REACH Libya MSNA 2021 Survey (Refugee and Migrant Population)*

Description

In response to a lack of recent data on the humanitarian situation in Libya, REACH conducted a multi-sectoral needs assessment (MSNA) from June-July 2021 to provide timely information on the needs and vulnerabilities of refugees and migrants. REACH designed the data collection and analysis tools, and consulted with all sectors and working groups active in the Libyan response to revise indicators.

Usage

lby_msna2021_survey

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 242 rows and 17 columns.

Source

[REACH Resource Centre](#)

lby_municipalities *Libyan Municipalities*

Description

A dataset containing the identifiers as well as the Arabic and English names of Libyan Municipalities

Usage

lby_municipalities

Format

An object of class data.frame with 100 rows and 5 columns.

Details

municipality_id A unique identifier for the Municipality

municipality_name_ar The Municipality's name in Arabic

municipality_name_en The Municipality's name in English

municipality_district_id The district to which the Municipality belongs

municipality_region_id The region to which the Municipality belongs

Source

reach

lby_regions *Libyan Regions*

Description

A dataset containing the identifiers as well as the Arabic and English names of Libyan Regions

Usage

lby_regions

Format

An object of class data.frame with 3 rows and 3 columns.

Details

- region_id** A unique identifier for the Region
- region_name_ar** The Region's name in Arabic
- region_name_en** The Region's name in English

Source

[reach](#)

Index

* datasets

- harmonized_municipality_names, 3
- harmonized_neighborhood_names, 4
- lby_districts, 6
- lby_msna2021, 6
- lby_msna2021_choices, 7
- lby_msna2021_survey, 7
- lby_municipalities, 8
- lby_regions, 8

- generate_changelog, 2
- get_question_columns, 3

- harmonized_municipality_names, 3
- harmonized_neighborhood_names, 4

- kobo_download_dataset, 4
- kobo_parse_expression, 5

- lby_districts, 6
- lby_msna2021, 6
- lby_msna2021_choices, 7
- lby_msna2021_survey, 7
- lby_municipalities, 8
- lby_regions, 8