Package 'fetchpxw'

September 18, 2024

Title Get data from pxweb databases

Version 0.0.11.9001

Description Function to call pxweb servers.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Suggests knitr,
  rmarkdown,
  testthat (>= 3.0.0)

Config/testthat/edition 3

Imports dplyr,
  magrittr,
  purrr,
  pxweb,
  stringr,
  tidyr,
  utils

VignetteBuilder knitr

R topics documented:

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pxw_create_api_url   *Convert a link to a database tables home page to an api url*

Description

Convert a link to a database tables home page to an api url

Usage

```
pxw_create_api_url(url_text)
```

Arguments

url_text   An URL to a tables as a character string.

Value

A URL to a API

Examples

```
url_text <- paste0(
  "https://www.statistikdatabasen.scb.se/pxweb/sv/ssd/",
  "START__AM__AM0210__AM0210A/ArbStatusM/"
)
pxw_create_api_url(url_text)
```

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pxw_fetch   *Retrieve data from a pxweb database*

Description

Retrieve data from a pxweb database

Usage

```
pxw_fetch(
  url_text = url_text,
  filters_list = list(),
  kod_kolumn = NULL,
  lopnr_istallet_for_koder = FALSE
)
```

Arguments

url_text	Url to a pxweb table. If the table belongs to Statistics Sweden, the Institute of Economic Research. Jordbruksverket or Tillväxtanalys the url will be coverted to an api url.
filters_list	A list of which selections should be made from various parameters. If no selection is made, all variables are retrieved. If a variable is to be removed, it is specified with variable name = "e", for example Region = "e".
kod_kolumn	A vector with names of the columns you also want codes for.
lopnr_istallet_for_koder	
	Some pxweb databases are misconfigured so that they don't have codes as identifiers, but insted uses serial numbers. Set to TRUE if these are not identified correctly

Value

A tibble with the contents of the pxweb table

Examples

```
url_text <- pxw_create_api_url(paste0(
    "https://www.statistikdatabasen.scb.se/pxweb/sv/ssd/START__",
    "BE__BE0101__BE0101A/BefolkningNy/"
))


pxw_fetch(
    url_text = url_text, filters_list = list(Region = "1280", Tid = "2023",
                                             Civilstand = "e",
                                             Alder = "e"),
    kod_kolumn = "region"
)
```

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pxw_get_first_period   *Get the first time in the table (year, month, etc.)*

Description

Get the first time in the table (year, month, etc.)

Usage

```
pxw_get_first_period(url_text)
```

Arguments

url_text	URL to the tables web site or API.

Value

A text string with the earliest time found in the table

Examples

```
url_text <- paste0(
  "https://www.statistikdatabasen.scb.se/pxweb/sv/ssd/",
  "START__AM__AM0210__AM0210A/ArbStatusM/"
)
pxw_get_first_period(url_text)
```

---

pxw_get_last_period *Get the latest time in the table (year, month, etc.)*

Description

Get the latest time in the table (year, month, etc.)

Usage

```
pxw_get_last_period(url_text)
```

Arguments

url_text   URL to the tables web site or API.

Value

A text string with the last time found in the table

Examples

```
url_text <- paste0(
  "https://www.statistikdatabasen.scb.se/pxweb/sv/ssd/",
  "START__AM__AM0210__AM0210A/ArbStatusM/"
)
pxw_get_last_period(url_text)
```

---

pxw_get_periods *Get all available periods*

Description

Get all available periods

Usage

```
pxw_get_periods(url_text)
```

Arguments

url_text   URL to the tables web site or API.

Value

A vector of all times available in the database, for example all years for which there is data

Examples

```
url_text <- paste0(
  "https://www.statistikdatabasen.scb.se/pxweb/sv/ssd/",
  "START__AM__AM0210__AM0210A/ArbStatusM/"
)
pxw_get_periods(url_text)
```

---

pxw_get_period_intervall

Create a period range for the times in the table

Description

Create a period range for the times in the table

Usage

```
pxw_get_period_intervall(url_text, from_per = NULL, to_per = NULL)
```

Arguments

url_text	URL to the tables web site or API.
from_per	Enter the earliest time in the range
to_per	Enter the latest time in the range.

Value

A vector with all the times between from_per and to_per.

Examples

```
url_text <- paste0(
  "https://www.statistikdatabasen.scb.se/pxweb/sv/ssd/",
  "START__AM__AM0210__AM0210A/ArbStatusM/"
)
pxw_get_period_intervall(url_text, from_per = "2024M01", to_per = "2024M03")
```

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pxw_get_region_codes	*If the table has a geographical variable, codes for this are retrieved, for example municipality codes*

Description

If the table has a geographical variable, codes for this are retrieved, for example municipality codes

Usage

```
pxw_get_region_codes(url_text, niva_nchar = NULL, lan_kod = NULL)
```

Arguments

url_text	UURL to the tables web site or API.
niva_nchar	If the table contains mixed geographic levels, it can specify that only codes with a certain length should be retrieved. level_nchar = 2 fetches for example county codes only.
lan_kod	Vector of county codes. If lan_kod = c("10", "12") then codes are retrieved only for Blekinge and Skåne.

Value

A vector with municipality codes or similar

Examples

```
url_text <- paste0(
  "https://www.statistikdatabasen.scb.se/pxweb/sv/ssd/",
  "START__AM__AM0210__AM0210A/ArbStatusM/"
)
pxw_get_region_codes(url_text, niva_nchar = 4, lan_kod = "12")
```

---

pxw_parameters_list	*Get a tibble with all parameters in the table*

Description

Get a tibble with all parameters in the table

Usage

```
pxw_parameters_list(url_text)
```

Arguments

url_text	URL to the tables web site or API.

Value

A tibble with all parameters

Examples

```
url_text <- paste0(
  "https://www.statistikdatabasen.scb.se/pxweb/sv/ssd/",
  "START__AM__AM0210__AM0210A/ArbStatusM/"
)
pxw_parameters_list(url_text)
```

---

pxw_variables_list   *Get a tibble with all parameters and variables in the table*

Description

Get a tibble with all parameters and variables in the table

Usage

```
pxw_variables_list(url_text)
```

Arguments

url_text   URL to the tables web site or API.

Value

A tibble with all parameters and variables that can be used in the query

Examples

```
url_text <- paste0(
  "https://www.statistikdatabasen.scb.se/pxweb/sv/ssd/",
  "START__AM__AM0210__AM0210A/ArbStatusM/"
)
pxw_variables_list(url_text)
```

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pxw_variables_list_mod

Adjust variable lists from misconfigured pxweb servers so that they are following SCB standard

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Description

Adjust variable lists from misconfigured pxweb servers so that they are following SCB standard

Usage

```
pxw_variables_list_mod(url_str, lopnr_in_values = FALSE)
```

Arguments

url_str   string, URL to an pxweb API
lopnr_in_values

logical, TRUE if the server don't have categories in the value param.

Value

A dataframe with all parameters and variables in use

Examples

```
link <- paste0("https://statistik.tillvaxtanalys.se/PxWeb/pxweb/sv/",
"Tillv%C3%A4xtanalys%20statistikdatabas/Tillv%C3%A4xtanalys",
"%20statistikdatabas__Konkurser%20och%20offentliga%20ackord/",
"konk_ar_lan_bransch_2009.px/")
pxw_variables_list_mod(link)
```

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