Package ‘uklr’

December 18, 2019

Title  Client to United Kingdom Land Registry
Version  1.0.0
Description  Access data from Land Registry Open Data <http://landregistry.data.gov.uk/>
            through ‘SPARQL’ queries. ‘uklr’ supports the house price index, transaction and price paid data.
License  GPL-3
Encoding  UTF-8
LazyData  true
RoxygenNote  7.0.0
Depends  R (>= 3.0.2)
Imports  httr (>= 1.4.1), jsonlite (>= 1.6), tibble (>= 2.1.3)
URL  https://github.com/kvasilopoulos/uklr
BugReports  https://github.com/kvasilopoulos/uklr/issues
Suggests  covr, testthat (>= 2.1.0), spelling
Language  en-US
NeedsCompilation  no
Author  Kostas Vasilopoulos [aut, cre]
        (<https://orcid.org/0000-0002-9769-6395>)
Maintainer  Kostas Vasilopoulos <k.vasilopoulos@gmail.com>
Repository  CRAN
Date/Publication  2019-12-18 15:00:02 UTC

R topics documented:

  get_query  ................................................................. 2
  ons_countries .......................................................... 2
  ons_lookup ............................................................... 3
  ons_pc ................................................................. 4
  pc ............................................................... 4
  sparql ............................................................... 5
ons_countries

ukhp_avail_items ............................................ 5
ukhp_get ..................................................... 6
uklr_browse ................................................ 7
uklr_def ..................................................... 8
ukppd_avail_items ........................................... 9
ukppd_get ................................................... 9
uktrans_avail_items ....................................... 10
uktrans_get ................................................ 11

Index 12

---

get_query

Get the sparql query performed with sparql.

Description

Get the sparql query performed with sparql.

Usage

get_query(x)

Arguments

x the result of query.

---

ons_countries

Office of National Statistic Location Classification

Description

Functions ons_countries, ons_regions, ons_eng_counties and ons_la provide a vector of
countries, regions, English counties and local authorities respectively.

Usage

ons_countries(modify = TRUE)

ons_eng_regions(modify = TRUE)

ons_regions(modify = TRUE)

ons_eng_counties(modify = TRUE)

ons_la(modify = FALSE)
ons_lookup

Arguments

modify Modifies the vector to conform with the queries.

Value

A character vector with the location names.

Examples

ons_countries()

ons_lookup Office of National Statistic Location Classification

Description

ons_lookup provides a table that that combines local authority districts (lad), local administrative units (lau), nomenclature of territorial units for statistics (NUTS) 1, 2 and 3. The other functions can extract the mentioned variables.

Usage

ons_lookup()
ons_nuts1()
ons_nuts2()
ons_nuts3()
ons_lad()

Value

A character vector with the location names.

Examples

ons_lookup()
### ons_pc

**Description**

Vector of UK postcodes. Search for matches with the `pattern` argument.

**Usage**

```r
ons_pc(pattern = NULL)
```

**Arguments**

- `pattern` partial matching

**Details**

```r
ons_pc("EH21 8A")
```

### pc

**Description**

UK Postcodes and NUTS3 Codes

**Usage**

```r
pc
```

**Format**

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 1759911 rows and 2 columns.

**Examples**

```r
pc
```
sparql

Tools to create a custom SPARQL query

Description

Function to create custom queries with the ‘/landregistry/query endpoint’. All necessary prefixes have to be included and output will be parsed from json to dataframe. The most prefixes from land registry can be include with prefix_query.

Usage

sparql(
  query,
  endpoint = "http://landregistry.data.gov.uk/landregistry/query",
  ...
)

prefix_query(query)

Arguments

query custom query.
endpoint land registry’s web service endpoint.
... further arguments passed to httr::GET.

Value

Returns a tibble that has been parsed from json.

Examples

custom_query <- "select * where {
}
"
sparql(prefix_query(custom_query))

ukhp_avail_items Display Land Registry available categories

Description

ukhp_avail_regions() displays available regions, ukhp_avail_regions() displays available items, ukhp_avail_date_span() displays available date sample, and ukhp_avail_date_last displays the last available date.
Usage

ukhp_avail_items()
ukhp_avail_regions()
ukhp_avail_date_span()
ukhp_avail_date_last()

Value

Returns a character vector.

Examples

ukhp_avail_regions()[1:10]
ukhp_avail_items()
ukhp_avail_date_last()

ukhp_get

Get House Price Data

Description

The UK House Price Index (UK HPI) captures changes in the value of residential properties. The UK HPI uses sales data collected on residential housing transactions, whether for cash or with a mortgage. Data is available at a national and regional level, as well as counties, local authorities and London boroughs.

Usage

ukhp_get(
  region = "england",
  item = "housePriceIndex",
  regexp = FALSE,
  start_date = NULL,
  end_date = NULL,
  ...
)

Arguments

region the region to select. If regexp is set to FALSE then the matching should be exact, see ukhp_avail_regions for available regions. If regexp is set to TRUE then partial matching is possible. Furthermore if it is set to NULL then selects all available regions.
item the item to select. See ukhp_avail_items for the available categories.
regexp use regular expression in sparql to search for regions.
start_date the start date as YYYY-MM-DD.
end_date the end date as YYYY-MM-DD.
... query modifiers passed through rdf_modifiers.

Details

Properties have been included:

- in England and Wales since January 1995
- in Scotland since January 2004
- in Northern Ireland since January 2005

Value

Returns a tibble in long format.

See Also

rdf_modifiers

Examples

# This is case sensitive
ukhp_get("england")

# However you can use regular expression instead of exact match
ukhp_get("england", regexp = TRUE)

# For all available items
ukhp_avail_items()

ukhp_get(c("england", "wales"), item = c("salesVolume", "housePriceIndexDetached"))
Usage

uklr_browse()
ukhp_browse()
ukppd_browse()
uktrans_browse()

Examples

uklr_browse()

---

uklr_def

Linked Data Definitions

Description

These functions return the definitions for the linked data construction in a tibble.

Usage

uklr_def()
ukhp_def()
ukppd_def()
uktrans_def()

Value

Returns a tibble.

Examples

uklr_def()
ukhp_def()
ukppd_avail_items  Display Price Paid Date available categories

Description

ukppd_avail_items() displays all available items for search, ukppd_avail_optional_items() displays optional items that refer to the location of the transaction and ukppd_avail_postcodes displays the available postcodes. /

Usage

ukppd_avail_items()

ukppd_avail_optional_items()

ukppd_avail_postcodes()

Value

Returns a character vector.

Examples

ukppd_avail_items()

ukppd_avail_optional_items()

ukppd_avail_postcodes()[1:10]

ukppd_get  Get Price Paid Data

Description

Price Paid Data tracks property sales in England and Wales submitted to HM Land Registry for registration. Price Paid Data is based on the raw data released each month.

Usage

ukppd_get(
    postcode = "PL6 8RU",
    item = NULL,
    optional_item = NULL,
    start_date = NULL,


```r
end_date = NULL,
...
)
```

### Arguments

- **postcode**: postcode to select, see `ukppd_avail_postcode()` for available postcodes.
- **item**: item to select, see `ukppd_avail_items()` for available items.
- **optional_item**: optional item to select that describes the location of the transaction, see `ukppd_avail_optional_items()` for available items.
- **start_date**: the start date as YYYY-MM-DD.
- **end_date**: the end date as YYYY-MM-DD.
- **...**: query modifiers passed through `rdf_modifiers`.

### Value

Returns a tibble in long format.

### Examples

```r
ukppd_get("PL6 8RU")
ukppd_get("PL6 8RU", start_date = "2001-01-01")
ukppd_get("PL6 8RU", start_date = "2001-01-01")
```

---

**uktrans_avail_items**  
*Display Land Registry Transaction available categories*

### Description

`uktrans_avail_items()` and `uktrans_avail_regions()` display available items and regions for search respectively.

### Usage

- `uktrans_avail_items()`
- `uktrans_avail_regions()`

### Value

Returns a character vector.

### Examples

```r
uktrans_avail_items()
uktrans_avail_regions()
```
uktrans_get

**Get Transaction Data**

**Description**

Transaction Data is a dataset that shows how many customer applications we completed, in the preceding month for: first registrations, leases, transfers of part, dealings, official copies and searches. This is based on customer and location.

**Usage**

```r
default(uktrans_get(  
  item = "totalApplicationCountByRegion",
  region = NULL,
  regexp = TRUE,
  start_date = NULL,
  end_date = NULL,
  ...
))
```

**Arguments**

- **item**: item to select, see `uktrans_avail_item()` for available items.
- **region**: region to select, see `uktrans_avail_regions()` for available regions.
- **regexp**: use regular expression in sparql to search for regions.
- **start_date**: the start date as YYYY-MM-DD.
- **end_date**: the end date as YYYY-MM-DD.
- **...**: query modifiers passed through `rdf_modifiers`.

**Value**

Returns a tibble in long format.

**Examples**

```r
uktrans_get(item = "totalApplicationCountByRegion", region = "East Anglia")
```

# If `region` is left as NULL then it returns all available regions
`uktrans_get(item = "totalApplicationCountByRegion")`

# Querying all available transaction data
`uktrans_get(item = uktrans_avail_items())`
*Topic datasets
  pc, 4
  get_query, 2
  ons_countries, 2
  ons_eng_countries (ons_countries), 2
  ons_eng_regions (ons_countries), 2
  ons_la (ons_countries), 2
  ons_lad (ons_lookup), 3
  ons_lookup, 3
  ons_nuts1 (ons_lookup), 3
  ons_nuts2 (ons_lookup), 3
  ons_nuts3 (ons_lookup), 3
  ons_pc, 4
  ons_regions (ons_countries), 2
  pc, 4
  prefix_query (sparql), 5
  sparql, 5
  ukhp_avail_date_last
    (ukhp_avail_items), 5
  ukhp_avail_date_span
    (ukhp_avail_items), 5
  ukhp_avail_items, 5
  ukhp_avail_regions (ukhp_avail_items), 5
  ukhp_browser (uklr_browser), 7
  ukhp_def (uklr_def), 8
  ukhp_get, 6
  uklr_browser, 7
  uklr_def, 8
  ukppd_avail_items, 9
  ukppd_avail_optional_items
    (ukppd_avail_items), 9
  ukppd_avail_postcodes
    (ukppd_avail_items), 9
  ukppd_browser (uklr_browser), 7
  ukppd_def (uklr_def), 8
  ukppd_get, 9
  uktrans_avail_items, 10
  uktrans_avail_regions
    (uktrans_avail_items), 10
  uktrans_browser (uklr_browser), 7
  uktrans_def (uklr_def), 8
  uktrans_get, 11