Package ‘uklr’

April 14, 2020

**Title**  Client to United Kingdom Land Registry

**Version**  1.0.1

**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

**URL**  https://github.com/kvasilopoulos/uklr

**BugReports**  https://github.com/kvasilopoulos/uklr/issues

**Depends**  R (>= 3.0.2)

**Imports**  curl (>= 4.3), httr (>= 1.4.1), jsonlite (>= 1.6), tibble (> 2.1.3)

**Suggests**  covr (>= 3.5.0), spelling (>= 2.1), testthat (>= 2.1.0)

**Encoding**  UTF-8

**Language**  en-US

**LazyData**  true

**RoxygenNote**  7.1.0

**NeedsCompilation**  no

**Author**  Kostas Vasilopoulos [aut, cre]

(<https://orcid.org/0000-0002-9769-6395>)

**Maintainer**  Kostas Vasilopoulos <k.vasilopoulo@gmail.com>

**Repository**  CRAN

**Date/Publication**  2020-04-14 14:50:02 UTC

**R topics documented:**

- ons_countries .................................................. 2
- ons_lookup ................................................... 3
- ons_pc ......................................................... 3
- pc .......................................................... 4

1
ons_countries

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)

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 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

UK Postcodes

Description

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

Usage

ons_pc(pattern = NULL)

Arguments

pattern partial matching
Details

ons.pc("EH21 8A")

---

pc  UK Postcodes and NUTS3 Codes

Description

UK Postcodes and NUTS3 Codes

Usage

pc

Format

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

Examples

pc

---

retrieved_query  Get the sparql query performed with sparql.

Description

Get the sparql query performed with sparql.

Usage

retrieved_query(x)

Arguments

x  the result of query.

Value

Returns the a character vector with the query.
**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**

```r
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**

```r
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.
uklr_browse

    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"))

uklr_browse

Quickly browse to Land Registry's webpage

Description

These functions take you to land registry's webpages and return the URL invisibly.
**Usage**

- `uklr_browse()`
- `ukhp_browse()`
- `ukppd_browse()`
- `uktrans_browse()`

**Examples**

- `uklr_browse()`

---

**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**

```r
ukppd_avail_items()
ukppd_avail_optional_items()
ukppd_avail_postcodes()
```

**Value**

Returns a character vector.

**Examples**

```r
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**

```r
ukppd_get(
  postcode = "PL6 8RU",
  item = NULL,
  optional_item = NULL,
  start_date = NULL,
)```
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", item = "newBuild", optional_item = "street")
```

---

**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.
**uktrans_get**

**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
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
```r
uktrans_get(item = "totalApplicationCountByRegion")
```
# Quering all available transaction data

uktrans_get(item = uktrans_avail_items())
Index

*Topic datasets
  pc, 4
  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, 3
  ons_regions (ons_countries), 2

  pc, 4
  prefix_query (sparql), 5

  retrieve_query, 4

  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_browse (uklr_browse), 7
  ukhp_def (uklr_def), 8
  ukhp_get, 6
  uklr_browse, 7
  uklr_def, 8
  ukppd_avail_items, 9
  ukppd_avail_optional_items
    (ukppd_avail_items), 9
  ukppd_avail_postcodes
    (ukppd_avail_items), 9
  ukppd_browse (uklr_browse), 7
  ukppd_def (uklr_def), 8
  ukppd_get, 9

  uktrans_avail_items, 10
  uktrans_avail_regions
    (uktrans_avail_items), 10
  uktrans_browse (uklr_browse), 7
  uktrans_def (uklr_def), 8
  uktrans_get, 11