Package 'VancouvR'

April 18, 2024

Type Package

Title Access the 'City of Vancouver' Open Data API

Version 0.1.8

Author Jens von Bergmann

Maintainer Jens von Bergmann <jens@mountainmath.ca>

Description
Wrapper around the 'City of Vancouver' Open Data API <https://opendata.vancouver.ca/api/v2/console> to simplify and standardize access to 'City of Vancouver' open data. Functionality to list the data catalogue and access data and geographic records.

License MIT + file LICENSE

Encoding UTF-8

NeedsCompilation no

RoxygenNote 7.2.3

Imports dplyr, httr, rlang, urltools, readr, digest, sf, geojsonsf, tibble, purrr

Suggests knitr, rmarkdown, ggplot2, lwgeom, tidyr

VignetteBuilder knitr

URL https://github.com/mountainMath/VancouvR,
https://mountainmath.github.io/VancouvR/

BugReports https://github.com/mountainMath/VancouvR/issues

Repository CRAN

Date/Publication 2024-04-18 16:12:35 UTC

R topics documented:

---

aggregate_cov_data   *Get aggregates from dataset from Vancouver Open Data Portal*

Description

Get aggregates from dataset from Vancouver Open Data Portal

Usage

```
aggregate_cov_data(
  dataset_id,
  select = "count(*) as count",
  group_by = NULL,
  where = NULL,
  apikey = getOption("VancouverOpenDataApiKey"),
  refresh = FALSE
)
```

Arguments

dataset_id	Dataset id from the Vancouver Open Data catalogue
select	select string for aggregation, default is 'count(*) as count' It accepts ODSQL syntax.
group_by	grouping variables for the query It accepts ODSQL syntax.
where	Query parameter to filter data (default 'NULL' no filter) It accepts ODSQL syntax.
apikey	Vancouver Open Data API key, default 'getOption("VancouverOpenDataApiKey")'
refresh	refresh cached data, default 'FALSE'

Value

tibble format data table output

Examples

```
# Count all parking tickets that relate to fire hydrants by ticket status
## Not run:
aggregate_cov_data("parking-tickets-2017-2019",
                   group_by = "status",
                   where = "infractiontext LIKE 'FIRE'")

## End(Not run)
```

---

get_cov_data *Get datasets from Vancouver Open Data Portal*

Description

Get datasets from Vancouver Open Data Portal

Usage

```
get_cov_data(
  dataset_id,
  select = "*",
  where = NULL,
  apikey = getOption("VancouverOpenDataApiKey"),
  rows = NULL,
  cast_types = TRUE,
  refresh = FALSE,
  ...
)
```

Arguments

dataset_id	Dataset id from the Vancouver Open Data catalogue
select	select string for fields to return, returns all fields by default. It accepts ODSQL syntax.
where	Query parameter to filter data (default 'NULL' no filter) It accepts ODSQL syntax.
apikey	Vancouver Open Data API key, default 'getOption("VancouverOpenDataApiKey")'
rows	Maximum number of rows to return (default 'NULL' returns all rows)
cast_types	Logical, use metadata to look up types and type-cast automatically, default 'TRUE'
refresh	refresh cached data, default 'FALSE'
...	optional ignored parameters, for compatibility with previous versions that relied on the 'format' parameter

Value

tibble or sf object data table output, depending on whether the dataset is spatial and 'cast_types' is 'TRUE'

Examples

```
# Get all parking tickets issued at the 1100 block of Alberni Street between 2017 and 2019
## Not run:
get_cov_data("parking-tickets-2017-2019",where = "block = 1100 AND street = 'ALBERNI ST'")
```

```
## End(Not run)
```

---

get_cov_metadata *Get metadata for CoV open data dataset*

Description

Get metadata for CoV open data dataset

Usage

```
get_cov_metadata(
  dataset_id,
  apikey = getOption("VancouverOpenDataApiKey"),
  refresh = FALSE
)
```

Arguments

dataset_id	the CoV open data dataset id
apikey	the CoV open data API key, optional
refresh	refresh cached data, default 'FALSE'

Value

tibble format data table output

Examples

```
# Get the metadata for the street trees dataset
## Not run:
get_cov_metadata("street-trees")

## End(Not run)
```

---

list_cov_datasets *Download the CoV open data catalogue*

Description

Download the CoV open data catalogue

Usage

```
list_cov_datasets(
  trim = TRUE,
  apikey = getOption("VancouverOpenDataApiKey"),
  refresh = FALSE
)
```

Arguments

trim   trim all NA columns, optional, defaul 'TRUE'

apikey   the CoV open data API key, optional

refresh   refresh cached data, default 'FALSE'

Value

tibble format data table output

Examples

```
# List and search available datasets
## Not run:
list_cov_datasets()

## End(Not run)
```

---

search_cov_datasets *Search for CoV open data datasets*

Description

Search for CoV open data datasets

Usage

```
search_cov_datasets(
  search_term,
  trim = TRUE,
  apikey = getOption("VancouverOpenDataApiKey"),
  refresh = FALSE
)
```

Arguments

search_term	grep string to serach through datasets
trim	trim all NA columns, optional, defaul 'TRUE'
apikey	the CoV open data API key, optional
refresh	refresh cached data, default 'FALSE'

Value

tibble format data table output

Examples

```
# search available datasets relating to trees
## Not run:
search_cov_datasets("trees")

## End(Not run)
```

Index