

Package ‘chiOpenData’

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Type Package

Title Convenient Access to Chicago Open Data API Endpoints

Version 0.1.0

Description Provides simple, reproducible access to datasets from the Chicago Open Data portal <<https://data.cityofchicago.org/>>. Functions return results as tidy tibbles and support optional filtering, sorting, and row limits via the Socrata API.

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Encoding UTF-8

RoxygenNote 7.3.3

Imports dplyr, tibble, jsonlite, httr, janitor, rlang

Suggests curl, knitr, ggplot2

URL <https://martinezc1.github.io/chiOpenData/>,
<https://github.com/martinezc1/chiOpenData>

BugReports <https://github.com/martinezc1/chiOpenData/issues>

VignetteBuilder knitr

Config/testthat/edition 3

Depends R (>= 4.1.0)

NeedsCompilation no

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chi_any_dataset	<i>Load Any CHI Open Data Dataset</i>
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Description

Downloads any CHI Open Data dataset given its Socrata JSON endpoint.

Usage

```
chi_any_dataset(
  json_link,
  limit = 10000,
  timeout_sec = 30,
  clean_names = TRUE,
  coerce_types = TRUE
)
```

Arguments

json_link	A Socrata dataset JSON endpoint URL (e.g., "https://data.cityofchicago.org/resource/fuz6-n5nj.json").
limit	Number of rows to retrieve (default = 10,000).
timeout_sec	Request timeout in seconds (default = 30).
clean_names	Logical; if TRUE, convert column names to snake_case (default = TRUE).
coerce_types	Logical; if TRUE, attempt light type coercion (default = TRUE).

Value

A tibble containing the requested dataset.

Examples

```
# Examples that hit the live chi Open Data API are guarded so CRAN checks
# do not fail when the network is unavailable or slow.
if (interactive() && curl::has_internet()) {
  endpoint <- "https://data.cityofchicago.org/resource/fuz6-n5nj.json"
  out <- try(chi_any_dataset(endpoint, limit = 3), silent = TRUE)
  if (!inherits(out, "try-error")) {
    head(out)
  }
}
```

chi_list_datasets	<i>List datasets available in chiOpenData</i>
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Description

Retrieves the current Open NY catalog and returns datasets available for use with 'chi_pull_dataset()'.

Usage

```
chi_list_datasets()
```

Details

Keys are generated from dataset names using 'janitor::make_clean_names()'.

Value

A tibble of available datasets, including generated 'key', dataset 'uid', and dataset 'name'.

Examples

```
if (interactive() && curl::has_internet()) {  
  chi_list_datasets()  
}
```

chi_pull_dataset	<i>Pull a CHI Open Data dataset from the CHI Open Data catalog</i>
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Description

Uses a dataset 'key' or 'id' from 'chi_list_datasets()' to pull data from CHI Open Data.

Usage

```
chi_pull_dataset(  
  dataset,  
  limit = 10000,  
  filters = list(),  
  date = NULL,  
  from = NULL,  
  to = NULL,  
  date_field = NULL,  
  where = NULL,  
  order = NULL,  
  timeout_sec = 30,  
  clean_names = TRUE,  
  coerce_types = TRUE  
)
```

Arguments

dataset	A dataset key or ID from <code>'chi_list_datasets()'</code> .
limit	Number of rows to retrieve (default = 10,000).
filters	Optional named list of filters. Supports vectors (translated to <code>IN()</code>).
date	Optional single date (matches all times that day) using <code>'date_field'</code> .
from	Optional start date (inclusive) using <code>'date_field'</code> .
to	Optional end date (exclusive) using <code>'date_field'</code> .
date_field	Optional date/datetime column to use with <code>'date'</code> , <code>'from'</code> , or <code>'to'</code> . Must be supplied when <code>'date'</code> , <code>'from'</code> , or <code>'to'</code> are used.
where	Optional raw SoQL WHERE clause. If <code>'date'</code> , <code>'from'</code> , or <code>'to'</code> are provided, their conditions are AND-ed with this.
order	Optional SoQL ORDER BY clause.
timeout_sec	Request timeout in seconds (default = 30).
clean_names	Logical; if TRUE, convert column names to snake_case (default = TRUE).
coerce_types	Logical; if TRUE, attempt light type coercion (default = TRUE).

Details

Dataset keys are generated from dataset titles using `'janitor::make_clean_names()'`. Because keys are derived from live catalog metadata, dataset IDs are the more stable option.

Value

A tibble.

Examples

```
if (interactive() && curl::has_internet()) {
  # Pull by key
  chi_pull_dataset("current_employee_names_salaries_and_position_titles", limit = 3)

  # Pull by ID
  chi_pull_dataset("xzkq-xp2w", limit = 3)

  # Filters
  chi_pull_dataset("xzkq-xp2w", limit = 3, filters = list(salary_or_hourly = "HOURLY"))
}
```

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