Package 'Rilostat'

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Title Access and Manipulation of ILOSTAT Labour Statistics

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Description Provides functions to access and manipulate data from the ILOSTAT database <https://ilostat.ilo.org>, the International Labour Organization's repository of labour statistics. Supports bulk download of datasets, metadata retrieval, and tools for filtering, reshaping, and analysing data.

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VignetteBuilder knitr

URL https://ilostat.github.io/Rilostat/, https://github.com/ilostat/Rilostat

BugReports https://github.com/ilostat/Rilostat/issues

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`clean_ilostat_cache` *Clean ilostat Cache*

Description

Deletes all cache files from the your ilostat cache directory. See `get_ilostat` for more on cache.

Usage

```
clean_ilostat_cache(
  cache_dir = getOption("ilostat_cache_dir", file.path(tempdir(), "ilostat")),
  cache_update = getOption("ilostat_cache_update", FALSE),
  quiet = getOption("ilostat_quiet", TRUE)
)
```

Arguments

`cache_dir`	A character, path to a cache directory. The directory has to exist. The `NULL` (default) uses and creates 'ilostat' directory in the temporary directory from `tempdir`. The directory can also be set with `option` ilostat_cache_dir,
`cache_update`	a logical whether to delete only out of date cache files. Useful when `cache_dir` is set as keep only update datasets. Can be set also with options(ilostat_update = TRUE). Default is `FALSE`.
`quiet`	a logical, if `TRUE` , don't return message from processing, `FALSE` (default). Can be set also with options(ilostat_quiet = TRUE),

Author(s)

David Bescond <bescond@ilo.org>

References

See citation("Rilostat") ilostat bulk download facility user guidelines https://ilostat.ilo.org/data/bulk/

Examples

```
## Not run:
clean_ilostat_cache()

## End(Not run)
```

`distribution_ilostat` *Switch ilostat to distribution*

Description

Get distribution for ilostat number of persons only.

Usage

```
distribution_ilostat(
  x,
  var,
  .keep = FALSE,
  quiet = getOption("ilostat_quiet", TRUE)
)
```

Arguments

`x`	dataset to transform into distribution.
`var`	String variable name use for the distribution default `"no"`, could be `"sex"`, `"classif1"`, `"classif2"`.
`.keep`	if true return only new column call distribution default `FALSE`,
`quiet`	a logical, if `TRUE` , don't return message from processing, `FALSE` (default). Can be set also with options(ilostat_quiet = TRUE).

Details

this function use the max of the corresponding grouping so it is important to not filter any subset of the corresponding variable selected for the distribution at this level, ie. if you remove SEX_T, the distribution by sex will only have SEX_F or SEX_M / max(SEX_M, SEX_F) * 100, which is no longer a distribution.

In addition, distribution is only applicable for indicators with Number of persons (usually in thousands), So please do not distribute ratios, earnings, hours of works, CPI, GDP etc ... no warning will prevent for that if doubts use distribution from get_ilostat() instead of, warnings will help you.

Value

a data_frame. obs_status will no longer be a number of persons but a percentage.

Author(s)

David Bescond <bescond@ilo.org>

References

See citation("Rilostat") ilostat bulk download facility user guidelines https://ilostat.ilo.org/data/bulk/

Examples

```
## Not run:
 dat <- get_ilostat("EMP_TEMP_SEX_STE_GEO_NB_A", cache = FALSE)
 dat_dist <- distribution_ilostat(dat, "classif1")
 dat_plus_dist <- mutate(dat, dist = distribution_ilostat(dat,"classif1", .keep=TRUE))
 head(dat_dist)
 clean_ilostat_cache()

## End(Not run)
```

---

get_ilostat *Read ilostat Data*

Description

Download datasets from ilostat https://ilostat.ilo.org via bulk download facility https://ilostat.ilo.org/data/bulk/.

Usage

```
get_ilostat(
  id,
  segment = getOption("ilostat_segment", "indicator"),
  type = getOption("ilostat_type", "code"),
  lang = getOption("ilostat_lang", "en"),
  time_format = getOption("ilostat_time_format", "raw"),
  filters = getOption("ilostat_filter", "none"),
  best_source = getOption("ilostat_best_source", "yes"),
  fixed = getOption("ilostat_fixed", TRUE),
  cache = getOption("ilostat_cache", TRUE),
  cache_update = getOption("ilostat_cache_update", TRUE),
  cache_dir = getOption("ilostat_cache_dir", NULL),
  cache_format = getOption("ilostat_cache_format", "rds"),
  back = getOption("ilostat_back", TRUE),
  cmd = getOption("ilostat_cmd", "none"),
```

```
  quiet = getOption("ilostat_quiet", TRUE)
)
```

Arguments

id	A code name for the dataset of interest. See get_ilostat_toc or details for how to get code.
segment	A character, way to get datasets by: "indicator" (default) or "ref_area". Can be set also with options(ilostat_segment = "ref_area"),
type	a character, type of variables, "code" (default), "label" or "both". Can be set also with options(ilostat_type = "both"),
lang	a character, code for language. Available are "en" (default), "fr" and "es". Can be set also with options(ilostat_lang = "fr"),
time_format	a string giving a type of the conversion of the time column from the ilostat format. "raw" (default) does not do conversion and return time as character (ie. "2017", "2017Q1", "2017M01"). A "date" converted to a Date with a first date of the period. A "date_last" converted to a Date with a last date of the period and "num" converted to a numeric. Can be set also with options(ilostat_time_format = "date"),
filters	a list; "none" (default) to get a whole dataset or a named list of filters to get just part of the table. Names of list objects are ilostat variable codes and values are vectors of observation codes. filters detect on variables, so could be partial, ie. list(sex = "T") is enough but equivalent to list(sex = "SEX_T"). Additional options: • timefrom : starting year of the return dataset, • timeto : ending year of the return dataset.
best_source	a character; "yes" (default) to get secondary source if exist "all", "no" for secondary only.
fixed	a logical, if TRUE (default), filters arguments pattern is a string to be matched as is, Change to FALSE if more complex regex matching is needed.
cache	a logical whether to do caching. Default is TRUE. Affects only queries from the ilostat bulk download facility. Can be set also with options(ilostat_cache = FALSE),
cache_update	a logical whether to update cache. Check cache update with last.update attribute store on the cache file name and the one from the table of contents. Can be set also with options(ilostat_cache_update = FALSE). Default is TRUE,
cache_dir	a path to a cache directory. The directory has to exist. The NULL (default) uses and creates 'ilostat' directory in the temporary directory from tempdir. The directory can also be set with option ilostat_cache_dir,
cache_format	a character, format to store on the cache "rds" (default), but also "csv", "dta", "sav", "sas7bdat". useful for getting ilostat dataset directly on the cache_dir without R. Can be set also with options(ilostat_cache_format = "dta"),
back	a logical; if TRUE (default) return a data frame, otherwise only write to cache,

cmd	a character, R expression use for manipulate internal data frame dat object applied to each datasets retrieved If use, cache is set to FALSE. see examples. This argument uses non-standard evaluation and should be used with care.
quiet	a logical, if TRUE , don't return message from processing, FALSE (default). Can be set also with options(ilostat_quiet = TRUE),

Value

a tibble. One column for each dimension in the data and the values column for numerical values, as well as the metadata columns. The time column for a time dimension.

others

Data sets are downloaded from the ilostat bulk download facility. If only the table id is given, the whole table is downloaded from the bulk download facility.

The bulk download facility is the fastest method to download whole datasets.

By default datasets from the bulk download facility are cached as they are often rather large.

Cache files are stored in a temporary directory by default or in a named directory if cache_dir or option ilostat_cache_dir is defined. The cache can be emptied with clean_ilostat_cache.

The id, a code, for the dataset can be searched with the get_ilostat_toc or from the [bulk download facility](https://ilostat.ilo.org/data/bulk/).

Author(s)

David Bescond <bescond@ilo.org>

References

See citation("Rilostat") ilostat bulk download facility user guidelines https://ilostat.ilo.org/data/bulk/

See Also

get_ilostat_toc, label_ilostat

Examples

```
## Not run:
############## get simple dataset
 dat <- get_ilostat("UNE_TUNE_SEX_AGE_NB_A")
 head(dat)
 dat <- get_ilostat("NZL_Q", segment = "ref_area")
 head(dat)

 dir.create(file.path(tempdir(), "r_cache"))
 dat <- get_ilostat("UNE_TUNE_SEX_AGE_NB_A",
                 cache_dir = file.path(tempdir(), "r_cache"))
 head(dat)
```

```
clean_ilostat_cache(cache_dir = file.path(tempdir(), "r_cache"))

options(ilostat_update = TRUE)
dat <- get_ilostat("UNE_TUNE_SEX_AGE_NB_A")
head(dat)
options(ilostat_update = FALSE)
options(ilostat_cache_dir = file.path(tempdir(), "r_cache"))
dat <- get_ilostat("UNE_TUNE_SEX_AGE_NB_A")

clean_ilostat_cache()

############## get multiple datasets
dat <- get_ilostat(c("CPI_ACPI_COI_RT_M", "CPI_ACPI_COI_RT_Q"), cache = FALSE)
head(dat)
toc <- get_ilostat_toc(search = "CPI_")
head(toc)
dat <- get_ilostat(toc, cache = FALSE) #id as a tibble

############## get datasets with filters
dat <- get_ilostat(id = c("UNE_TUNE_SEX_AGE_NB_A", "EMP_TEMP_SEX_AGE_NB_A"),
        filters = list( ref_area = "FRA",
        classif1 = "_YGE15",
        time = "2016",
        sex = c("T", "SEX_F")), quiet = TRUE)
head(dat)
clean_ilostat_cache()

############## store in other format
dir.create(file.path(tempdir(), "ilostat"))

dat <- get_ilostat("UNE_TUNE_SEX_AGE_NB_A",
                cache_dir = file.path(tempdir(), "r_cache"), cache_format = "csv")
dat <- get_ilostat("UNE_TUNE_SEX_AGE_NB_A",
                cache_dir = file.path(tempdir(), "r_cache"), cache_format = "dta")

############## advanced manipulation

dat <- get_ilostat("UNE_TUNE_SEX_AGE_NB_A", cmd = "dat %>% count(ref_area)", quiet = TRUE)
label_ilostat(dat, code = "ref_area")

clean_ilostat_cache()

## End(Not run)
```

`get_ilostat_dic` *Read ilostat Dictionary*

Description

Downloads one ilostat dictionary from ilostat https://ilostat.ilo.org via bulk download facility https://ilostat.ilo.org/data/bulk/.

Usage

```
get_ilostat_dic(
  dic,
  lang = getOption("ilostat_lang", "en"),
  cache_dir = getOption("ilostat_cache_dir", NULL),
  quiet = getOption("ilostat_quiet", TRUE)
)
```

Arguments

dic	A character, dictionary for the variable to be downloaded,
lang	a character, code for language. Available are "en" (default), "fr" and "es". Can be set also with options(ilostat_lang = 'fr'),
cache_dir	a path to a cache directory. The directory has to exist. The NULL (default) uses and creates 'ilostat' directory in the temporary directory from tempdir. The directory can also be set with option ilostat_cache_dir,
quiet	a logical, if FALSE , return message from processing, TRUE (default). Can be set also with options(ilostat_quiet = TRUE),

Details

For a given coded variable from ilostat https://ilostat.ilo.org/. The dictionaries link codes with human-readable labels. To translate codes to labels, use label_ilostat.

Value

tibble with two columns: code names and full names.

Author(s)

David Bescond <bescond@ilo.org>

References

See citation("Rilostat") ilostat bulk download facility user guidelines https://ilostat.ilo.org/data/bulk/

See Also

label_ilostat, get_ilostat.

Examples

```
## Not run:
 tmp <- get_ilostat_dic("indicator")
 head(tmp)
 tmp <- get_ilostat_dic("classif1", lang = "fr")
 head(tmp)

## End(Not run)
```

`get_ilostat_sdmx` *Retrieve ILOSTAT data using an SDMX-oriented interface*

Description

‘get_ilostat_sdmx()‘ provides an SDMX-oriented interface to ILOSTAT datasets while reusing the native Rilostat download, disk-cache and filtering infrastructure.

Usage

```
get_ilostat_sdmx(
  id = NULL,
  resource = "data",
  component = NULL,
  segment = "indicator",
  type = "code",
  format = "dataframe",
  lang = "en",
  filters = NULL,
  best_source = "yes",
  fixed = TRUE,
  cache_dir = NULL,
  refresh = FALSE
)
```

Arguments

`id`	Character. ILOSTAT dataset identifier, for example ‘"UNE_TUNE_SEX_AGE_NB_A"‘. Required for ‘"data"‘, ‘"structure"‘ and ‘"codelist"‘. For ‘resource = "dataflow"‘, ‘id = NULL‘ returns the complete ILOSTAT dataflow catalogue.
`resource`	Character. SDMX resource to return. One of: ‘"data"‘, ‘"structure"‘, ‘"codelist"‘ or ‘"dataflow"‘.
`component`	Character. SDMX component identifier used with ‘resource = "codelist"‘, for example ‘"AGE"‘, ‘"SEX"‘, ‘"OBS_STATUS"‘ or ‘"UNIT_MEASURE"‘.
`segment`	Character. Native ILOSTAT segment passed to [get_ilostat()] or [get_ilostat_toc()].
`type`	Character. Representation of coded values. One of: ‘"code"‘, ‘"label"‘, ‘"label_short"‘ or ‘"both"‘. ‘"code"‘ returns SDMX codes. ‘"label"‘ replaces coded values with their labels. ‘"label_short"‘ uses short/display labels when available. ‘"both"‘ returns codes together with companion ‘*_LABEL‘ columns.
`format`	Character. Output format. One of: ‘"dataframe"‘, ‘"sdmx-ml"‘ or ‘"sdmx-json"‘. ‘"sdmx-ml"‘ and ‘"sdmx-json"‘ are available for the structural resources ‘"structure"‘, ‘"codelist"‘ and ‘"dataflow"‘. Observation data are currently returned as a data frame.

lang	Character. Language used for labels. One of ‘"en"‘, ‘"fr"‘ or ‘"es"‘.
filters	Named list of filters using SDMX component identifiers, for example ‘REF_AREA‘, ‘SEX‘, ‘AGE‘, ‘FREQ‘, ‘MEASURE‘ and ‘TIME_PERIOD‘. Ordinary component filters reuse native Rilostat matching semantics. For example, ‘SEX = "SEX_F"‘ filters female observations. ‘FREQ‘ and ‘MEASURE‘ are dataset-level SDMX constants. A filter that does not match the dataset returns an empty SDMX data frame. ‘TIME_PERIOD‘ supports the existing Rilostat time filtering semantics. Equality can be expressed directly, for example ‘TIME_PERIOD = "2020"‘, while comparison operators can be supplied as a named list, for example ‘TIME_PERIOD = list(ge = "2020", le = "2023")‘. Ordinary coded components also support ‘eq‘ and ‘ne‘, for example ‘SEX = list(ne = "SEX_T")‘.
best_source	Character. Source-selection behavior passed to [get_ilostat()]. ‘"yes"‘ (default) returns best-source observations and does not expose ‘BEST_SOURCE‘; ‘"no"‘ and ‘"all"‘ retain the ‘BEST_SOURCE‘ component.
fixed	Logical. Native matching behavior passed to [get_ilostat()].
cache_dir	Character or ‘NULL‘. Directory used for the SDMX metadata disk cache and native Rilostat cache. If ‘NULL‘, the standard Rilostat cache location is used.
refresh	Logical. If ‘TRUE‘, refresh cached dataset metadata and request a refresh of the native ILOSTAT data cache.

Details

The existing [get_ilostat()] function remains the native ILOSTAT interface. ‘get_ilostat_sdmx()‘ adds an SDMX semantic layer whose components are derived dynamically from dataset metadata.

For ‘resource = "data"‘, native ILOSTAT column names are mapped to SDMX component identifiers. Dynamic classifications are obtained from the dataset metadata rather than hard-coded. For example, a native ‘classif1‘ column can become ‘AGE‘ when the dataset metadata identifies that dimension as age.

The data resource includes the SDMX message envelope components ‘STRUCTURE‘, ‘STRUCTURE_ID‘ and ‘ACTION‘. ‘STRUCTURE_NAME‘ is also returned when labels are requested.

Dataset-level components such as ‘FREQ‘, ‘MEASURE‘, ‘UNIT_MEASURE‘ and ‘UNIT_MULT‘ are derived from the dataset SDMX metadata.

‘resource = "codelist"‘ returns the canonical ILOSTAT codelist associated with the requested SDMX component.

Value

The return value depends on ‘resource‘ and ‘format‘.

With ‘format = "dataframe"‘, a data frame is returned.

With ‘format = "sdmx-ml"‘, a character string containing SDMX-ML 3.1 is returned.

With ‘format = "sdmx-json"‘, a character string containing SDMX-JSON 2.1 is returned.

Examples

```
## Not run:

# Observation data using SDMX component names
x <- get_ilostat_sdmx(
  "UNE_TUNE_SEX_AGE_NB_A",
  filters = list(
    REF_AREA = "FRA",
    SEX = "SEX_F",
    AGE = "AGE_YTHADULT_YGE15"
  )
)

# Codes and labels
x <- get_ilostat_sdmx(
  "UNE_TUNE_SEX_AGE_NB_A",
  type = "both",
  filters = list(
    REF_AREA = "FRA",
    SEX = "SEX_F"
  )
)

# Time range
x <- get_ilostat_sdmx(
  "UNE_TUNE_SEX_AGE_NB_A",
  filters = list(
    REF_AREA = "FRA",
    TIME_PERIOD = list(
      ge = "2020",
      le = "2023"
    )
  )
)

# Dataset structure
structure <- get_ilostat_sdmx(
  "UNE_TUNE_SEX_AGE_NB_A",
  resource = "structure"
)

# Canonical AGE codelist
age <- get_ilostat_sdmx(
  "UNE_TUNE_SEX_AGE_NB_A",
  resource = "codelist",
  component = "AGE"
)

# One Dataflow
flow <- get_ilostat_sdmx(
  "UNE_TUNE_SEX_AGE_NB_A",
  resource = "dataflow"
```

```
)

# Complete ILOSTAT Dataflow catalogue
flows <- get_ilostat_sdmx(
  resource = "dataflow"
)

# SDMX-ML 3.1 structure message
xml <- get_ilostat_sdmx(
  "UNE_TUNE_SEX_AGE_NB_A",
  resource = "structure",
  format = "sdmx-ml"
)

# SDMX-JSON 2.1 structure message
json <- get_ilostat_sdmx(
  "UNE_TUNE_SEX_AGE_NB_A",
  resource = "structure",
  format = "sdmx-json"
)

## End(Not run)
```

`get_ilostat_toc` *Read ilostat Table of Contents / workflow*

Description

Download one table of contents from ilostat https://ilostat.ilo.org via bulk download facility https://ilostat.ilo.org/data/bulk/.

Usage

```
get_ilostat_toc(
  segment = getOption("ilostat_segment", "indicator"),
  lang = getOption("ilostat_lang", "en"),
  search = getOption("ilostat_search", "none"),
  filters = getOption("ilostat_filter", "none"),
  fixed = getOption("ilostat_fixed", TRUE),
  cache_dir = getOption("ilostat_cache_dir", NULL),
  cache_update = getOption("ilostat_cache_update", TRUE),
  quiet = getOption("ilostat_quiet", TRUE)
)
```

Arguments

`segment`	A character, way to get datasets by: `"indicator"` (default) or `"ref_area"`, Can be set also with options(ilostat_segment = "ref_area"),

lang	a character, code for language. Available are "en" (default), "fr" and "es". Can be set also with options(ilostat_lang = "fr"),
search	a character vector, "none" (default), datasets with this pattern in the description will be returned, characters vector will be use as AND, Character with "|" as OR, see example, options(ilostat_time_format = "date"),
filters	a list; "none" (default) to get a whole toc or a named list of filters to get just part of the table. Names of list objects are ilostat toc variable codes and values are vectors of observation codes. filters detect on variables.
fixed	a logical, if TRUE (default), pattern is a string to be matched as is, Change to FALSE if more complex regex matching is needed.
cache_dir	a path to a cache directory. The directory has to exist. The NULL (default) uses and creates 'ilostat' directory in the temporary directory from tempdir. The directory can also be set with option ilostat_cache_dir,
cache_update	a logical whether to update cache. Check cache update with last.update attribute store on the cache file name and the one from the table of contents. Can be set also with options(ilostat_cache_update = FALSE). Default is TRUE,
quiet	a logical, if FALSE , return message from processing, TRUE (default). Can be set also with options(ilostat_quiet = TRUE),

Details

The toc in English by indicator is downloaded from ilostat API https://rplumber.ilo.org/__docs__/#get-/metadata/toc/indicator/. The values in column "id" should be used to download a selected dataset.

The toc in English by ref_area is downloaded from ilostat API https://rplumber.ilo.org/__docs__/#get-/metadata/toc/ref_area/. The values in column "id" should be used to download a selected dataset.

Value

A tibble with ten columns depending of the segment: indicator or ref_area

- id : The codename of dataset of theme, will be used by the get_ilostat and get_ilostat_raw functions,
- indicator or ref_area : The indicator or ref_area code of dataset,
- indicator.label or ref_area.label : The indicator or ref_area name of dataset,
- freq : The frequency code of dataset,
- freq.label : Is freq name of dataset,
- size : Size of the csv.gz files,
- data.start : First time period of the dataset,
- data.end : Last time period of the dataset,
- last.update : Last update of the dataset,
- ... : Others relevant information

Author(s)

David Bescond <bescond@ilo.org>

References

See citation("Rilostat") ilostat bulk download facility user guidelines https://ilostat.ilo.org/data/bulk/

See Also

get_ilostat.

Examples

```
## Not run:
## default segment by indicator, default lang English
 toc <- get_ilostat_toc()
 head(toc)
 toc <- get_ilostat_toc(segment = "ref_area", lang = "fr")
 head(toc)
##
## search on toc
 toc <- get_ilostat_toc(search = "education")
 head(toc)
 toc <- get_ilostat_toc(lang = "fr", search = "age")
 head(toc)
 toc <- get_ilostat_toc(segment = "ref_area", lang = "fr", search = "Albanie")
 toc
 toc <- get_ilostat_toc(segment = "ref_area", lang = "es", search = "Trimestral")
 head(toc)
##
## search multi on toc
 toc <- get_ilostat_toc(segment = "ref_area", lang = "fr",
             search = "Albanie|France", fixed = FALSE)
 head(toc)
 toc <- get_ilostat_toc(search = "youth|adult", fixed = FALSE)
 head(toc)
##

## End(Not run)
```

---

label_ilostat *Switch ilostat codes and labels*

Description

Gets definitions/labels for ilostat codes from ilostat dictionaries.

Usage

```
label_ilostat(
  x,
  dic = NULL,
  code = NULL,
  lang = getOption("ilostat_lang", "en")
)
```

Arguments

x	A character or a factor vector or a data_frame to labelled.
dic	A string (vector) naming ilostat dictionary or dictionaries. If NULL (default) dictionary names are taken from column names of the data_frame. A character or a factor vector or a data_frame to labelled,
code	a vector of names of the column for which code columns should be retained. Set to "all", keep all the code.
lang	a character, code for language. Available are "en" (default), "fr" and "es". Can be set also with options(ilostat_lang = 'fr'),

Details

A character or a factor vector of codes returns a corresponding vector of definitions. label_ilostat labels also data_frames from get_ilostat. For vectors a dictionary "time" and "values" columns are returned as they were, so you can supply data_frame from get_ilostat and get data_frame with definitions instead of codes.

Value

a vector or a data_frame. The suffix ".label" is added to code column names.

Author(s)

David Bescond <bescond@ilo.org>

References

See citation("Rilostat") ilostat bulk download facility user guidelines https://ilostat.ilo.org/data/bulk/

Examples

```
## Not run:
 dat <- get_ilostat("UNE_2UNE_SEX_AGE_NB_A", cache = FALSE)
 dat_lab <- label_ilostat(dat)
 head(dat_lab)


 # add just ref_area label
require(tidyverse)
```

```
dat <- get_ilostat("UNE_TUNE_SEX_AGE_NB_A") %>%
 mutate(ref_area.label = ref_area %>%
 label_ilostat( "ref_area", code = "all"), .after = ref_area)



 clean_ilostat_cache()

## End(Not run)
```

`runapp_ilostat` *Play with ILOSTAT data apps*

Description

Open various data exploration and analysis applications hosted by the ILO.

Usage

```
runapp_ilostat(name = "dataexplorer")
```

Arguments

`name`	'chr' The name of the application to open. Available applications: • "dataexplorer": Quickly find, filter, pivot, and download ILOSTAT data. • "microquery": Explore data availability and create custom queries from the ILO Harmonized Microdata Collection. Users can select variables, filters, and indicators to generate tailored datasets. • "regionalaggregate": Generate custom regional estimates by defining or selecting country groupings. The app automatically aggregates country-level modelled data for selected indicators.

Author(s)

David Bescond <bescond@ilo.org>

References

See citation("Rilostat")

See Also

Additional documentation for microdata:

- Quick guide on microdata processing
- Adjustment procedure for ISCO- and ISIC-based estimates
- Methodology for ad hoc global and regional estimates
- Citations

Examples

```
## Not run:

  runapp_ilostat(name = "dataexplorer")

  # You can also run other apps like:
  runapp_ilostat(name = "microquery")
  runapp_ilostat(name = "regionalaggregate")



## End(Not run)
```

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