

Package: ispv (via r-universe)

August 19, 2024

Title Use Czech labour market survey data

Version 0.1.0.9000

Description Retrieve and load data from the Czech Information System on Average Earnings (ISPV) at <<https://www.ispv.cz>>.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.1

Imports cli, httr, purrr (>= 0.3.4), readxl, rvest (>= 1.0.2), tibble

Depends R (>= 2.10)

URL <https://github.com/petrbouchal/ispv>, <http://petrbouchal.xyz/ispv/>

BugReports <https://github.com/petrbouchal/ispv/issues>

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Repository <https://petrbouchal.r-universe.dev>

RemoteUrl <https://github.com/petrbouchal/ispv>

RemoteRef HEAD

RemoteSha 2df00ad4f4e3e19acfa0838c4294f5d91c05c97

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kraje	<i>Codelist (registry) of regions</i>
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Description

Used in `pv_reg_*`() to add proper region IDs and names.

Usage

kraje

Format

A data frame with 14 rows and 4 variables:

`kraj_id_ispv` character. Internal region code, appears in Excel file name

`kraj_id` character. non-NUTS ID of kraj (region, NUTS3).

`kraj_name` character. Czech name of kraj (region, NUTS3).

`kraj_id_nuts3` character. NUTS ID of kraj (region, NUTS3)..

`pv_cr_monthlypay_age_gender`

Load country-wide data by gender and age

Description

Load country-wide data by gender and age (age in 6 bins)

Usage

`pv_cr_monthlypay_age_gender(path, sheet = 2)`

Arguments

`path` path(s) to file(s), Will be file with "CR_YYQD and either "PLS" or "MZS" in the name.

`sheet` sheet number; you should be able to leave this as default (2) if using files downloaded from ISPV

Value

a tibble

Examples

```
pv_cr_monthlypay_age_gender(system.file("extdata", "CR_204_MZS.xlsx", package = "ispv"))
pv_cr_monthlypay_age_gender(system.file("extdata", "CR_204_PLS.xlsx", package = "ispv"))
```

pv_cr_monthlypay_education

Load country-wide data on monthly earnings by education

Description

Loads data on monthly earnings by education level from one or more local Excel files downloaded from ISPV links retrieved by `pv_list_reg()`.

Usage

```
pv_cr_monthlypay_education(path, sheet = 3)
```

Arguments

path	path(s) to file(s), Will be file with "CR_YYQD and either "PLS" or "MZS" in the name.
sheet	sheet number; you should be able to leave this as default (3) if using files downloaded from ISPV

Value

a tibble

Examples

```
pv_cr_monthlypay_education(system.file("extdata", "CR_204_PLS.xlsx", package = "ispv"))
pv_cr_monthlypay_education(system.file("extdata", "CR_204_MZS.xlsx", package = "ispv"))
```

pv_cr_monthlypay_isco *Load country-wide data by ISCO*

Description

Load country-wide data by ISCO (profession classification) at 4 and 5 digits

Usage

```
pv_cr_monthlypay_isco(path, sheet = 1)
```

Arguments

path	path(s) to file(s), Will be file with "CR_YYQD and either "PLS" or "MZS" in the name.
sheet	which sheet to open. Will be 1 (the default) in files with only one sheet ("CR_204_MZS_M8r.xlsx") and 7 in comprehensive file ("CR_204_MZS.xlsx")

Value

a tibble

Examples

```
pv_cr_monthlypay_isco(system.file("extdata", "CR_204_MZS_M8r.xlsx", package = "ispv"), 1)
pv_cr_monthlypay_isco(system.file("extdata", "CR_204_MZS.xlsx", package = "ispv"), 7)
pv_cr_monthlypay_isco(system.file("extdata", "CR_204_PLS_M8r.xlsx", package = "ispv"), 1)
pv_cr_monthlypay_isco(system.file("extdata", "CR_204_PLS.xlsx", package = "ispv"), 7)
```

pv_cr_monthlypay_nace *Load country-wide data by NACE*

Description

Load country-wide data by NACE (single-letter industry codes)

Usage

```
pv_cr_monthlypay_nace(path, sheet = 5)
```

Arguments

path	path(s) to file(s), Will be file with "CR_YYQD and either "PLS" or "MZS" in the name.
sheet	sheet number; you should be able to leave this as default (5) if using files downloaded from ISPV

Value

a tibble

Examples

```
pv_cr_monthlypay_nace(system.file("extdata", "CR_204_MZS.xlsx", package = "ispv"))
pv_cr_monthlypay_nace(system.file("extdata", "CR_204_PLS.xlsx", package = "ispv"))
```

pv_list_cr	<i>Get links to Excel files with national data on ISPV website for a given year</i>
------------	---

Description

This function scrapes the relevant year's archive page for links to Excel files with national data and returns the result in a tibble.

Usage

```
pv_list_cr(year = NULL, base_url = NULL, user_agent = NULL)
```

Arguments

year	Year, defaults to scraping page for latest available data. String or numeric in YYYY format of length ≥ 1
base_url	base url, defaults to https://ispv.cz
user_agent	User agent string, defaults to package URL on Github (https://github.com/petrbouchal/ispv).

Value

a tibble with file name, URL and year. File name can be used to determine the time period and region.

Examples

```
## Not run:  
pv_list_reg(year = 2019:2020)  
  
## End(Not run)
```

pv_list_reg	<i>Get links to Excel files with regional data on ISPV website for a given year</i>
-------------	---

Description

This function scrapes the relevant year's archive page for links to Excel files with regional data and returns the result in a tibble.

Usage

```
pv_list_reg(year = NULL, base_url = NULL, user_agent = NULL)
```

Arguments

year	Year, defaults to scraping page for latest available data. String or numeric in YYYY format of length ≥ 1 .
base_url	base url, defaults to https://ispv.cz
user_agent	User agent string, defaults to package URL on Github (https://github.com/petrbouchal/ispv).

Value

a tibble with file name, URL and year. File name can be used to determine the time period and region.

Examples

```
## Not run:
pv_list_reg(year = 2019:2020)

## End(Not run)
```

pv_reg_monthlypay_age_gender

Load regional data on monthly earnings by profession

Description

Load ISPV Excel files with regional data on monthly earnings by ISCO code

Usage

```
pv_reg_monthlypay_age_gender(path, sheet = 2)
```

Arguments

path	path(s) to file(s), Will be file with "Reg_YYQ" and either "PLS" or "MZS" in the name.
sheet	sheet number; you should be able to leave this as default (2) if using files downloaded from ISPV

Value

a tibble

Examples

```
pv_reg_monthlypay_age_gender(system.file("extdata", "Kar_204_pls.xlsx", package = "ispv"))
pv_reg_monthlypay_age_gender(system.file("extdata", "Kar_204_mzs.xlsx", package = "ispv"))
```

`pv_reg_monthlypay_education`*Load regional data on monthly earnings by education*

Description

Loads data on monthly earnings by education level from one or more local Excel files downloaded from ISPV links retrieved by `pv_list_reg()`.

Usage

```
pv_reg_monthlypay_education(path, sheet = 2)
```

Arguments

<code>path</code>	path(s) to file(s), Will be file with "Reg_YYQ" and either "PLS" or "MZS" in the name.
<code>sheet</code>	sheet number; you should be able to leave this as default (2) if using files downloaded from ISPV

Value

a tibble

Examples

```
pv_reg_monthlypay_education(system.file("extdata", "Kar_204_pls.xlsx", package = "ispv"))  
pv_reg_monthlypay_education(system.file("extdata", "Kar_204_mzs.xlsx", package = "ispv"))
```

`pv_reg_monthlypay_isco4`*Load regional data on monthly earnings by profession*

Description

Loads data on monthly earnings by ISCO code from one or more local Excel files downloaded from ISPV links retrieved by `pv_list_reg()`.

Usage

```
pv_reg_monthlypay_isco4(path, sheet = 4)
```

Arguments

path	path(s) to file(s), Will be file with "Reg_YYQ" and either "PLS" or "MZS" in the name.
sheet	sheet number; you should be able to leave this as default (4) if using files downloaded from ISPV

Format

The function returns a data frame with 22 variables. All earnings are monthly gross in CZK.

kraj_id_ispv character. Internal region code, appears in Excel file name

file character. File from which this row was read.

isco4_full character. 4-digit ISCO (occupation) code with Czech ISCO category name. CZSO codelist number **5708**

fte_thous double. Thousand FTEs in this ISCO-4 category - converted to FTE by months paid.

pay_median double. Median monthly earnings.

pay_d1 double. 1st decile monthly earnings.

pay_q1 double. 1st quartile monthly earnings.

pay_q3 double. 3rd quartile monthly earnings.

pay_d9 double. 9th decline monthly earnings.

pay_mean double. Mean earnings.

bonus_perc double. Bonuses ("odměny") as share of pay, as decimal

supplements_perc double. Supplements ("příplatky") as share of pay, as decimal.

compensation_perc double. Compensation ("náhrady") as share of pay, as decimal.

hours_per_month double. Monthly hours worked.

sfera character. Sphere - salary (pls) or wage (mzs), roughly equals public or private sector

period character. Time period as appears in file name, e.g. 204 is Q4 of 2020. Regional data only comes in Q4, i.e. for full year.

year character. Year, as 4-digit character vector

isco4_id character. 4-digit ISCO code.

isco4_name character. Czech name of 4-digit ISCO category

kraj_id character. non-NUTS ID of kraj (region, NUTS3).

kraj_name character. Czech name of kraj (region, NUTS3).

kraj_id_nuts3 character. NUTS ID of kraj (region, NUTS3)..

Value

a tibble, see Format for details.

Examples

```
pv_reg_monthlypay_isco4(system.file("extdata", "Kar_204_mzs.xlsx", package = "ispv"))
pv_reg_monthlypay_isco4(system.file("extdata", "Kar_204_pls.xlsx", package = "ispv"))
```


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