

Package ‘dataCPS’

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Type Package

Title X

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Imports RSQLite,
data.table,
downloader,
descr,
downloader,
readr

Suggests

Description Data

Remotes DanielBonnery/SAScii

License GPL (>= 2)

LazyLoad yes

LazyData true

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addtodb	<i>Create an R file function</i>
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Description

Create an R file function

Usage

addtodb(m)

Arguments

m a date

Details

creates a SQLite database if not existing and loads a downloaded file into it.

Examples

```
download.instruction.file(as.Date("20040501", "%Y%m%d"))
```

allsteps	<i>Downloads and extract data for one specific month</i>
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Usage

```
allsteps(  
  m,  
  returnvalue = TRUE,  
  createdatabase = FALSE,  
  createrdafiles = FALSE,  
  directory = tempdir(),  
  varlist = varlist,  
  cps.dbname = "cps.db",  
  col_types = col_types  
)
```

Arguments

- m a character string in the Date format
- \itemreturnvaluea boolean
- \itemcreaterdafilesa boolean
- \itemdirectorya character string (Default tempdir())
- \itemvarlista character stringvector
- \itemcps.dbname(Default "cps.db",
- \itemcoltypesa named character string vector,
- Downloads and extract data for one specific month

<code>dat.file.name.f</code>	<i>CPS data table name function</i>
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Description

CPS data table name function

Usage

`dat.file.name.f(m)`

Arguments

- m a date

Details

construct a table name as a function of month

Examples

`dat.file.name.f(as.Date("20050101", "%Y%m%d"))`

<code>download.instruction.file</code>	<i>Instruction file download function</i>
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Description

Instruction file download function

Usage

`download.instruction.file(m)`

Arguments

m a date

Details

download the instruction file for a specific month Not any month is valid

Value

a character string, the path to the unzipped file

Examples

```
download.instruction.file(as.Date("20040501", "%Y%m%d"))
```

```
download.unzip.cpsmicrodata
```

Download and unzip cps microdata file for month m function

Description

Download and unzip cps microdata file for month m function

Usage

```
download.unzip.cpsmicrodata(m)
```

Arguments

m a date

Details

download a zip file and unzip it in a temporary directory

Value

a character string, the path to the unzipped file

Examples

```
download.unzip.cpsmicrodata(as.Date("20050101", "%Y%m%d"))
```

format.change.dates	<i>List of format change dates.</i>
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Description

List of format change dates.

Usage

```
format.change.dates
```

Format

An object of class Date of length 13.

get_data_from_web	<i>downloads CPS data from web</i>
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Description

downloads CPS data from web

Usage

```
get_data_from_web(
  startingdate = as.Date("20050101", "%Y%m%d"),
  enddate = startingdate,
  varlist = tolower(c("pulineno", "pwsswgt", "hrhhid", "hrlongid", "hrhhid2", "cpsid",
    "pwcmpwgt", "hwniwgt", "PUMLR", "Pemlr", "PEHSPNON", "prtage", "peage", "PESEX",
    "GESTFIPS", "puhmem", "prperty", "PTDTRACE", "prwtrace", "PRBLNONB", "GESTREC",
    "hrintsta", "hrmis")),
  col_types = list(pulineno = col_character(), pwsswgt = col_double(), hrhhid =
    col_character(), hrlongid = col_character(), hrhhid2 = col_character(), cpsid =
    col_character(), pwcmpwgt = col_double(), hwniwgt = col_double(), pumlr =
    col_character(), pemlr = col_character(), pehspnon = col_character(), prtage =
    col_double(), peage = col_integer(), pesex = col_character(), gestfips =
    col_character(), puhmem = col_character(), prperty = col_character(), ptdtrace =
    col_character(), prwtrace = col_character(), prblnonb = col_character(), gestrec
    = col_character(), hrintsta = col_character(), hrmis = col_character()),
  directory = NULL,
  createdatabase = FALSE,
  createrdfiles = FALSE,
  returnvalue = TRUE,
  cps.dbname = "cps.db"
)
```

Arguments

varlist a vector of character strings, the variables to keep from the downloaded file
 directory where to save the file
 createdatabase a boolean(default FALSE),
 createrdafiles a boolean(default FALSE),
 returnvalue a boolean
 endgdate a date (default: startingdate)
 coltypes a vector of character strings, the variables to keep from the downloaded file
 cps.dbname="cps.db"

instructionfilenamef *name of the instruction file name as a function of month*

Description

name of the instruction file name as a function of month

Usage

```
instructionfilenamef(m)
```

Arguments

m a date

Details

this is valid as long as the Census.gov website does not change it.

Examples

```
instructionfilenamef(as.Date("20050101", "%Y%m%d"))
```

last.format.change.date.f	
	<i>Last format change date.</i>

Description

Last format change date.

Usage

last.format.change.date.f(m)

Arguments

m a character string

Details

this is valid as long as the Census.gov website does not change it.

Examples

last.format.change.date.f(as.Date("20050101", "%Y%m%d"))

monthsinperiod	<i>Bind monthly datasets together</i>
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Usage

monthsinperiod(startingmonth = "200501", endmonth = "201201")

Arguments

startingmonth a character string that is a date in the format "
 \itemendmontha character string that is a date in the format "
 a vector
 Bind monthly datasets together
monthsinperiod("200510","200602")

<code>rbind_period</code>	<i>Bind monthly datasets together</i>
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Description

Bind monthly datasets together

Usage

```
rbind_period(startingmonth = "200501", endmonth = "201201", variables = NULL)
```

Arguments

<code>list.tables</code>	a list of tables
<code>w</code>	a character string: name of the weights variable (should be the same in all tables)
<code>list.y</code>	a vector of variable names
<code>id</code>	a character string: name of the identifier variable (should be the same in all tables)
<code>groupvar</code>	a character string: name of the rotation group variable (should be the same in all tables)
<code>groups_1</code>	a character string:
<code>groups0</code>	if <code>groupvar</code> is not null, a vector of possible values for <code>L[[groupvar]]</code>

See Also

`CompositeRegressionEstimation::AK`

Examples

```
rbind_period(startingmonth="200501",endmonth="200503",c("pemlr","pwsswgt"))
```

<code>URLf</code>	<i>get the URL of format file as a function of month</i>
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Description

get the URL of format file as a function of month

Usage

```
URLf(m)
```

Arguments

<code>m</code>	a character string
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Details

this is valid as long as the Census.gov website does not change it.

Examples

```
URLf(as.Date("20050101", "%Y%m%d"))
```

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