Package ‘busdater’

January 30, 2019

Type Package
Title Standard Date Calculations for Business
Version 0.2.0
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Description Get a current financial year, start of current month, End of current month, start of financial year and end of it. Allow for offset from the date.
License MIT + file LICENSE
BugReports https://github.com/mickmiudoszewski/busdater/issues
Imports lubridate
Suggests covr, knitr, rmarkdown, testthat
VignetteBuilder knitr
Encoding UTF-8
LazyData true
RoxygenNote 6.1.1
NeedsCompilation no
Repository CRAN
Date/Publication 2019-01-30 20:43:21 UTC

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Deprecated functions in busdater

Description
These functions still work but will be removed (defunct) in the next version.

Details
- **FY**
- **period_boundaries**

FY

Get a financial year (deprecated).

Description
FY() is a deprecated function. It returns the current financial year. It also returns financial year based on parameter dates, or financial year based on a parameter dates and offset_period in years.

Usage

```r
FY(date = Sys.Date(), offset_period = 0,
   optFYstart = getOption("busdaterFYstart", default = "07-01"))
```

Arguments

date A date vector for which financial year is required. Date must be POSIXct or POSIXlt or Date objects.

offset_period A positive or negative number coercible to integer to shift the year by, e.g. in the case of FY, -1 for previous year, 1 for next year. More generally in page_boundaries function it is a number of periods of a specified period type

optFYstart A string in the format of "MM-DD" representing the start of financial year, e.g. "01-01" for 1st of January or "07-01" for 1st of July. This package caters for financial years that have a fixed start date. It does not cater for moving dates e.g. last Friday of September.

Value
An integer vector containing the current financial year if offset offset_period is 0, otherwise add the offset offset_period in years.

See Also
Other business date functions: get_boundary, get_fy, period_boundaries
get_boundary

Examples

FY() # deprecated function returns the current financial year as integer

dt <- as.Date(c("01-01-2018", "15-12-2017"), "%d-%m-%Y")
FY(date = dt[1])
FY(date = dt)

FY(offset_period = 1) ## return the next financial year as integer
FY(date = dt[1], offset_period = 1)
FY(date = dt, offset_period = 1)

FY(offset_period=-1) ## return the previous financial year as integer
FY(date = dt[1], offset_period = -1)
FY(date = dt, offset_period = -1)

## Not run:
FY("a") ## will fail because dates are expected.

## End(Not run)

get_boundary

Get date's business period boundary.

Description

The get_boundary will shift the input date vector by a number of months and years i.e. date + offset_period * offset_type. It will handle the typical business date arithmetic.

Usage

get_boundary(date = Sys.Date(), offset_period = 0,
offset_type = "year", bus_period = "FY", boundary = "1st day",
opt_fy_start = getOption("busdaterFYstart", default = "07-01"))

Arguments

date A date vector for which financial year is required. Date must be POSIXct or POSIXlt or Date objects.

offset_period A positive or negative number coercible to integer to shift the year by, e.g. in the case of get_fy, -1 for previous year, 1 for next year. More generally in page_boundaries function it is a number of periods of a specified period type

offset_type It is either "month" or "year"

bus_period It is either "get_fy" for financial year, "CE" for calendar year or "M" for month
boundaryEither "1st day" for the first day of the period or "last day" for the end of the period.

opt_fy_startA string in the format of "MM-DD" representing the start of financial year, e.g. "01-01" for 1st of January or "07-01" for 1st of July. This package caters for financial years that have a fixed start date. It does not cater for moving dates e.g. last Friday of September.

Value
A vector of dates.

See Also
Other business date functions: FY, get_fy, period_boundaries

Examples

```r
# the 1st day of the current financial year
get_boundary()

# the last day of the current financial year
get_boundary(boundary = "last day")

# the last day of the last calendar year
get_boundary(offset_period = -1, bus_period = "CY", boundary = "last day")

# the last day of month 14 months from now
get_boundary(offset_period = 14, offset_type = "month",
             bus_period = "M", boundary = "last day")

# The first day of financial years for dates 3 months before the given dates
get_boundary(as.Date(c("02/27/1992", "09/28/2022"), "%m/%d/%Y"),
             offset_period = -3, offset_type = "month",
             bus_period = "FY", boundary = "1st day")
```

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get_fy

Get a financial year.

Description
get_fy() returns the current financial (fiscal) year. It also returns financial year based on parameter dates, or financial year based on a parameter dates and offset_period in years.

Usage

get_fy(date = Sys.Date(), offset_period = 0,
       opt_fy_start = getOption("busdaterFYstart", default = "07-01"))
Arguments

date: A date vector for which financial year is required. Date must be POSIXct or POSIXlt or Date objects.

offset_period: A positive or negative number coercible to integer to shift the year by, e.g. in the case of get_fy, -1 for previous year, 1 for next year. More generally in page_boundaries function it is a number of periods of a specified period type.

opt_fy_start: A string in the format of "MM-DD" representing the start of financial year, e.g. "01-01" for 1st of January or "07-01" for 1st of July. This package caters for financial years that have a fixed start date. It does not cater for moving dates e.g. last Friday of September.

Value

An integer vector containing the current financial year if offset offset_period is 0, otherwise add the offset offset_period in years.

See Also

Other business date functions: FY, get_boundary, period_boundaries

Examples

get_fy() ## return the current financial year as integer
dt <- as.Date(c("01-01-2018", "15-12-2017"}, "%d-%m-%Y")
get_fy(date = dt[1])
get_fy(date = dt)

get_fy(offset_period = 1) ## return the next financial year as integer
get_fy(date = dt[1], offset_period = 1)
get_fy(date = dt, offset_period = 1)

get_fy(offset_period=-1) ## return the previous financial year as integer
get_fy(date = dt[1], offset_period = -1)
get_fy(date = dt, offset_period = -1)

## Not run:
get_fy("a") ## will fail because dates are expected.

## End(Not run)

period_boundaries Get date’s business period boundary (deprecated).
Description

The `period_boundaries` function is a deprecated function. It will shift the input date vector by a number of months and years i.e. date + offset_period * offset_type. It will handle the typical business date arithmetic.

Usage

```r
period_boundaries(date = Sys.Date(), offset_period = 0,
offset_type = "year", bus_period = "FY", boundary = "1st day",
optFYstart = getOption("busdaterFYstart", default = "07-01"))
```

Arguments

date A date vector for which financial year is required. Date must be POSIXct or POSIXlt or Date objects.
offset_period A positive or negative number coercible to integer to shift the year by, e.g. in the case of FY, -1 for previous year, 1 for next year. More generally in page_boundaries function it is a number of periods of a specified period type
offset_type It is either "month" or "year"
bus_period It is either "FY" for financial year, "CY" for calendar year or "M" for month
boundary Either "1st day" for the first day of the period or "last day" for the end of the period.
optFYstart A string in the format of "MM-DD" representing the start of financial year, e.g. "01-01" for 1st of January or "07-01" for 1st of July. This package caters for financial years that have a fixed start date. It does not cater for moving dates e.g. last Friday of September.

Value

A vector of dates.

See Also

Other business date functions: `FY`, `get_boundary`, `get_fy`

Examples

```r
# the 1st day of the current financial year
period_boundaries()

# the last day of the current financial year
period_boundaries(boundary = "last day")

# the last day of the last calendar year
period_boundaries(offset_period = -1, bus_period = "CY", boundary = "last day")

# the last day of month 14 months from now
period_boundaries(offset_period = 14, offset_type = "month",
```
bus_period = "M", boundary = "last day")

# The first day of financial years for dates 3 months before the given dates
period_boundaries(as.Date(c("02/27/1992", "09/28/2022"), "%m/%d/%Y"),
    offset_period = -3, offset_type = "month",
    bus_period = "FY", boundary = "1st day")
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