Package 'tidydfidx'

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Title Indexed 'tibble' and Methods for 'dplyr'

Depends R (>= 3.5.0)

Imports dplyr, vctrs, pillar, Rdpack, dfidx

Suggests knitr, quarto, rmarkdown

Description Provides extended data frames, with a special data frame column which contains two indexes, with potentially a nesting structure, and support for tibbles and methods for 'dplyr'.

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URL https://cran.r-project.org/package=tidydfidx

VignetteBuilder quarto

RoxygenNote 7.3.1

Encoding UTF-8

RdMacros Rdpack

NeedsCompilation no

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Contents

dplyr *Methods for dplyr verbs*

Description

methods of dplyr verbs for dfidx objects. Default functions don't work because most of these functions returns either a tibble or a data.frame but not a dfidx

Usage

```
## S3 method for class 'dfidx'
arrange(.data, ...)

## S3 method for class 'dfidx'
filter(.data, ...)

## S3 method for class 'dfidx'
slice(.data, ...)

## S3 method for class 'dfidx'
mutate(.data, ...)

## S3 method for class 'dfidx'
transmute(.data, ...)

## S3 method for class 'dfidx'
select(.data, ...)
```

Arguments

.data	a dfidx object,
...	further arguments

Details

These methods always return the data frame column that contains the indexes and return a dfidx object.

Value

an object of class "dfidx"

Author(s)

Yves Croissant

Examples

```
data("munnell", package = "dfidx")
munnell <- as_tibble(munnell)
mn <- dfidx(munnell)
select(mn, - gsp, - water)
mutate(mn, lgsp = log(gsp), lgsp2 = lgsp ^ 2)
transmute(mn, lgsp = log(gsp), lgsp2 = lgsp ^ 2)
arrange(mn, desc(unemp), labor)
filter(mn, unemp > 10)
pull(mn, gsp)
slice(mn, c(1:2, 5:7))
```

`methods.dfidx` *Methods for dfidx*

Description

A `dfidx` is a `data.frame` with a "sticky" data.frame column which contains the indexes. Specific methods of functions that extract lines and/or columns of a `data.frame` are provided.

Usage

```
## S3 method for class 'tbl_dfidx'
print(x, ..., n = NULL)

## S3 method for class 'vecidx'
vec_ptype_abbr(x, ..., prefix_named, suffix_shape)

## S3 method for class 'vecidx'
format(x, ...)

## S3 method for class 'vecidx'
pillar_shaft(x, ...)

## S3 method for class 'tbl_dfidx2'
tbl_sum(x, ...)
```

Arguments

`x`	a `dfidx` object
`...`	further arguments
`n`	the number of rows for the print method
`prefix_named, suffix_shape`	see vctrs::vec_ptype_abbr

Value

`as.data.frame` and `mean` return a `data.frame`, `[[` and `$` a vector, `[` either a `dfidx` or a vector, `$<-` and `[[<-` modify the values of an existing column or create a new column of a `dfidx` object, `print` is called for its side effect

Author(s)

Yves Croissant

Examples

```
data("munnell", package = "dfidx")
mn <- dfidx(munnell)
# extract a series (returns as a xseries object)
mn$gsp
# or
mn[["gsp"]]
# extract a subset of series (returns as a dfidx object)
mn[c("gsp", "unemp")]
# extract a subset of rows and columns
mn[mn$unemp > 10, c("utilities", "water")]
# dfidx, idx and xseries have print methods as (like tibbles), a n
# argument
print(mn, n = 3)
print(idx(mn), n = 3)
print(mn$gsp, n = 3)
# a dfidx object can be coerced to a data.frame
head(as.data.frame(mn))
```

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