

Package ‘tigerhitteR’

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Type Package

Title Pre-Process of Time Series Data Set in R

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Description Pre-process for discrete time series data set which is not continuous at the column of 'date'. Refilling records of missing 'date' and other columns to the hollow data set so that final data set is able to be dealt with time series analysis.

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URL <https://github.com/Willdata/tigerhitteR>

LazyData TRUE

RoxygenNote 5.0.1

Imports openxlsx (>= 3.0.0), zoo (>= 1.7-13), Hmisc (>= 3.17-4),
magrittr (>= 1.5)

Depends R (>= 3.3.1)

NeedsCompilation no

Repository CRAN

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data.example	<i>Transaction Data of The Product</i>
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Description

This data set is an example transaction data set which contains transactional details of a product in a couple of years

Usage

data.example

Format

A data.frame containing 975 observations.

dateRefill.fromData	<i>Complete the hollow dataset</i>
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Description

Take time series dataset and fields, then refill the missing date records and other fields.

Usage

```
dateRefill.fromData(data, dateCol.index, fixedCol.index,
  uninterpolatedCol.index, uninterpolatedCol.newValue)
```

Arguments

data	The data.frame dataset which is ready to be processed
dateCol.index	Date column
fixedCol.index	A row of column number which should be kept same values with the original
uninterpolatedCol.index	The column number which should be changed to different value into new record.
uninterpolatedCol.newValue	The value of a specific column which should be put into the new record.

Details

Real time series sales dataset could be not continuous in 'date' field. e.g., monthly sales data is continuous, but discrete in daily data.

This hollow dataset is not complete for time series analysis. Function dateRefill.fromFile is a transformation which transforms uncomplete dataset into complete dataset.

Value

The dataset which is completed.

Author(s)

Will Kuan

Examples

```
# mydata <- data.example
# mydata.final <- dateRefill.fromData(data = mydata,dateCol = 2,fixedVec = c(3:10),
#                                   uninterpolatedCol.index = 11,uninterpolatedCol.newValue = 0)
```

```
dateRefill.fromFileToExcel
```

Complete the hollow dataset

Description

Take time series dataset and fields, then refill the missing date records and other fields.

Usage

```
dateRefill.fromFileToExcel(inPath, sheet, dateCol.index, outPath,
                           fixedCol.index, uninterpolatedCol.index, uninterpolatedCol.newValue)
```

Arguments

inPath	A path which is the location of uncompleted dataset which must be xlsx file
sheet	A worksheet name of the dataset
dateCol.index	Date column
outPath	A path where the location of xlsx file of completed dataset should be
fixedCol.index	A row of column number which should be kept same values with the original
uninterpolatedCol.index	The column number which should be changed to different value into new record.
uninterpolatedCol.newValue	The value of a specific column which should be put into the new record.

Details

Real time series sales dataset could be not continuous in 'date' field. e.g., monthly sales data is continuous, but discrete in daily data.

This hollow dataset is not complete for time series analysis. Function dateRefill.fromFile is a transformation which transforms uncomplete dataset into complete dataset.

Author(s)

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Examples

Please refer to the examples of function `dateRefill.fromData`

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