

Package: kosis (via r-universe)

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Title Korean Statistical Information Service (KOSIS)

Version 0.0.1

Description API wrapper to download statistical information from the Korean Statistical Information Service (KOSIS)

<<https://kosis.kr/openapi/index/index.jsp>>.

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Encoding UTF-8

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Imports data.table (>= 1.13.0), httr (>= 1.4.3), jsonlite (>= 1.7.2),
tibble (>= 3.2.1)

Roxygen list(markdown = TRUE)

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

RemoteUrl <https://github.com/seokhoonj/kosis>

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kosis-package	<i>kosis: Korean Statistical Information Service (KOSIS)</i>
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Description

API wrapper to download statistical information from the Korean Statistical Information Service (KOSIS) <https://kosis.kr/openapi/index/index.jsp>.

Details

To use this package, you will first need to get your API key from the website <https://kosis.kr/openapi/index/index.jsp>. Once you have your key, you can save it as an environment variable for the current session using the `kosis.setKey` function. Alternatively, you can set it permanently by adding the following line to your `.Renviro` file:

```
KOSIS_API_KEY = PASTE YOUR API KEY
```

Any functions that require your API key try to retrieve it via `Sys.getenv("KOSIS_API_KEY")` (unless API key is explicitly specified as a function argument).

Author(s)

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castItem	<i>Cast Item variable from the stat data downloaded from getStatData function</i>
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Description

Cast Item variable from the stat data downloaded from `getStatData` function

Usage

```
castItem(statData, itemVar = c("ITM_NM", "ITM_ID", "ITM_NM_ENG"))
```

Arguments

<code>statData</code>	A data.frame downloaded from <code>getStatData</code> function
<code>itemVar</code>	A string specifying item variable

Details

```
## Example
statData <- getStatData(orgId = "101", tblId = "DT_1B41", objL1 = "ALL")
castItem(statData = statData, itemVar = "ITM_NM")
```

Value

A data.frame object containing queried information

getStatData	<i>KOSIS Statistic Data</i>
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Description

KOSIS Statistic Data

Usage

```
getStatData(
  orgId,
  tblId,
  prdSe = c("Y", "H", "Q", "M", "D", "IR"),
  startPrdDe,
  endPrdDe,
  newEstPrdCnt = 3,
  prdInterval = 1,
  itmId = "ALL",
  objL1 = "ALL",
  objL2 = "",
  objL3 = "",
  objL4 = "",
  ...
)
```

Arguments

orgId	A string specifying the organization id
tblId	A string specifying the table id
prdSe	A string specifying the period symbol (Y, H, Q, M, D, IR: Irregularly)
startPrdDe	A string specifying start period (format: YYYY, YYYYMM(MM:01~12), YYYYHH(HH:01,02), YYYYQQ(QQ:01~04), YYYYMMDD)
endPrdDe	A string specifying end period (format: YYYY, YYYYMM(MM:01~12), YYYYHH(HH:01,02), YYYYQQ(QQ:01~04), YYYYMMDD)
newEstPrdCnt	A string specifying newest period count
prdInterval	A string specifying period interval
itmId	A string item id
objL1	A string specifying object level 1
objL2	A string specifying object level 2
objL3	A string specifying object level 3
objL4	A string specifying object level 4
...	A string specifying object level 5, 6, 7, 8 (objL5, objL6, objL7, objL8)

Details

```
## Example  
getStatData(orgId = "101", tblId = "DT_1B41")
```

Value

A data.frame object containing queried information

getStatDataFromURL *KOSIS Statistic Data from URL*

Description

KOSIS Statistic Data from URL

Usage

```
getStatDataFromURL(url)
```

Arguments

url A string specifying the KOSIS URL

Details

```
## Example  
url <- "https://kosis.kr/openapi/Param/statisticsParameterData.do?  
method=getList&apiKey=&  
itmId=T6+T16+T26+T5+T15+T25+T2+T12+T22+T3+T13+T23+T4+T14+T24+T1+T11+T21+&  
objL1=ALL&objL2=&objL3=&objL4=&objL5=&objL6=&objL7=&objL8=&  
format=json&jsonVD=Y&  
prdSe=Y&newEstPrdCnt=3&prdInterval=1&  
orgId=101&tblId=DT_1B41"  
getStatDataFromURL(url = url)
```

Value

A data.frame object containing queried information

getStatExpl	<i>KOSIS Statistic Explanation</i>
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Description

KOSIS Statistic Explanation

Usage

```
getStatExpl(orgId, tblId, statId, metaItm = "ALL")
```

Arguments

orgId	A string specifying the organization id
tblId	A string specifying the table id
statId	A string specifying the stat id
metaItm	A string specifying the meta item

Details

```
## Example
getStatExpl(orgId = "101", tblId = "DT_1L9V054")
getStatExpl(statId = "1962009")
```

Value

A data.frame object containing queried information

getStatList	<i>KOSIS Statistic List</i>
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Description

KOSIS Statistic List

Usage

```
getStatList(
  vwCd = c("MT_ZTITLE", "MT_OTITLE", "MT_GTITLE01", "MT_GTITLE02", "MT_CHOSUN_TITLE",
    "MT_HANKUK_TITLE", "MT_STOP_TITLE", "MT_RTITLE", "MT_BUKHAN", "MT_TM1_TITLE",
    "MT_TM2_TITLE", "MT_ETITLE"),
  parentListId = ""
)
```

Arguments

vwCd A string specifying the view code
parentListId A string specifying the parent list id

Details

```
## Example
getStatList(vwCd = "MT_ZTITLE", parentListId = "")
getStatList(vwCd = "MT_ZTITLE", parentListId = "F")
getStatList(vwCd = "MT_ZTITLE", parentListId = "F_29")
```

Value

A data.frame object containing queried information

getStatMeta	<i>KOSIS Statistic Meta</i>
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Description

KOSIS Statistic Meta

Usage

```
getStatMeta(
  orgId,
  tblId,
  type = c("TBL", "ORG", "PRD", "ITM", "CMMT", "UNIT", "SOURCE", "WGT", "NCD")
)
```

Arguments

orgId A string specifying the organization id
tblId A string specifying the table id
type A string specifying the meta type

Details

```
## Example
getStatMeta(orgId = "101", tblId = "DT_1IN0001")
getStatMeta(orgId = "101", tblId = "DT_1IN0001", type = "ORG")
```

Value

A data.frame object containing queried information

getStatSearch	<i>KOSIS Statistic Search</i>
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Description

KOSIS Statistic Search

Usage

```
getStatSearch(
  searchNm,
  startCount = 1,
  resultCount = 20,
  sort = c("RANK", "DATE")
)
```

Arguments

searchNm	A string specifying a name you search
startCount	A nuemeric specifying a page number
resultCount	A numeric specifying counts of result (resultCount = 20, startCount = 2 : 21~40 Result)
sort	A string specifying the sorting (RANK: accuracy, DATE: newest)

Details

```
## Example
getStatSearch(searchNm = "CPI")
```

Value

A data.frame object containing queried information

kosis.setKey	<i>Set KOSIS API Key</i>
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Description

Save KOSIS API key for the current session. To set it permanently, please add the following line to your .Renviron file:

```
KOSIS_API_KEY = "YOUR API KEY"
```

Usage

```
kosis.setKey(apiKey)

kosis.printKey()
```

Arguments

apiKey A string specifying KOSIS API key

Value

No return value, called to set api key

Examples

```
## Set API Key for the current session
kosis.setKey("your_api_key")

## Check API key
kosis.printKey()
```

removeUniqueCols *Remove columns that consist of unique values*

Description

Remove columns that consist of unique values

Usage

```
removeUniqueCols(statData)
```

Arguments

statData A data.frame downloaded from getStatData function

Details

```
## Example
df <- removeUniqueCols(statData = statData)
```

Value

A data.frame object with columns that consist of non-unique values

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