Package 'KSIC'

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Title Korea Standard Industrial Classification (KSIC)

Version 1.0.2

Description Provides tools for working with the Korea Standard Industrial Classification (KSIC). Includes datasets for the 9th, 10th, and 11th revisions. Functions include searching codes and names by keyword, converting codes across revisions, validating KSIC codes, and navigating the classification hierarchy (e.g., identifying parent or child categories). Intended for use in statistical analysis, data processing, and research involving South Korea's industrial classification system.

Encoding UTF-8

RoxygenNote 7.3.2

URL https://github.com/urbanjj/KSIC

BugReports https://github.com/urbanjj/KSIC/issues

Depends R (>= 3.5.0)

LazyData true

License GPL (>= 3)

Suggests knitr, rmarkdown, tibble, tidyr

VignetteBuilder knitr

NeedsCompilation no

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`is_ksic` *Check for Valid KSIC Codes*

Description

Checks if the input codes are valid for the given KSIC revision (9th, 10th, or 11th).

Usage

```
is_ksic(ksic)
```

Arguments

`ksic`	character. A vector of KSIC codes to check.

Value

A data.frame with the input codes and logical columns (C9, C10, C11) indicating validity.

`ksic` *Get KSIC Data*

Description

Returns a data.frame of KSIC data for the specified revision and digit.

Usage

```
ksic(digit = 5, C = NULL, eng_nm = FALSE)
```

Arguments

`digit`	integer. The digit of the classification to extract (1-5). Default is 5.
`C`	integer. The KSIC revision (9, 10, or 11). If NULL, `getOption("ksic.C", 11)` is used.
`eng_nm`	logical. If `TRUE`, includes English classification names; if `FALSE`, excludes them. Default is `FALSE`.

Value

A data.frame containing the specified KSIC codes and names.

Examples

```
ksic(digit = 1)

ksic(digit = 2, C = 10, eng_nm = TRUE)
```

`ksicDB` *Korea Standard Industry Code Data*

Description

A dataset containing the codes, names, revisions, and digits of the 9th and 10th Korea Standard Industrial Classification (KSIC).

Usage

```
ksicDB
```

Format

A data frame with columns:

cd Classification code.

nm Classification name.

eng_nm English classification name.

digit Digit of the classification (1-5).

ksic_C KSIC revision (C9 or C10).

Examples

```
ksicDB
```

ksicTreeDB *Korea Standard Industry Code Tree Data*

Description

A dataset representing the hierarchical structure of the 9th and 10th KSIC. It includes parent codes for each 5-digit classification.

Usage

```
ksicTreeDB
```

Format

A data frame with columns for each classification level (1 to 5 digits) and the KSIC revision.

Examples

```
ksicTreeDB
```

ksic_10_to_11 *KSIC 10th to 11th Concordance Table*

Description

A concordance table for converting 10th revision KSIC codes to 11th revision KSIC codes.

Usage

```
ksic_10_to_11
```

Format

A data frame with 5 columns:

ksic10_cd 10th revision KSIC code.

ksic10_nm 10th revision KSIC name.

ksic11_cd 11th revision KSIC code.

ksic11_nm 11th revision KSIC name.

detail Additional details about the connection.

Examples

```
ksic_10_to_11
```

ksic_10_to_9 *KSIC 10th to 9th Concordance Table*

Description

A concordance table for converting 10th revision KSIC codes to 9th revision KSIC codes.

Usage

```
ksic_10_to_9
```

Format

A data frame with 6 columns:

ksic10_cd 10th revision KSIC code.

ksic10_nm 10th revision KSIC name.

ksic9_cd 9th revision KSIC code.

ksic9_nm 9th revision KSIC name.

con Type of connection.

detail Additional details about the connection.

Examples

```
ksic_10_to_9
```

ksic_11_to_10 *KSIC 11th to 10th Concordance Table*

Description

A concordance table for converting 11th revision KSIC codes to 10th revision KSIC codes.

Usage

```
ksic_11_to_10
```

Format

A data frame with columns for 11th codes, 10th codes, and connection details.

ksic11_cd 11th revision KSIC code.

ksic11_nm 11th revision KSIC name.

ksic10_cd 10th revision KSIC code.

ksic10_nm 10th revision KSIC name.

detail Additional details about the connection.

Examples

```
ksic_11_to_10
```

`ksic_9_to_10` *KSIC 9th to 10th Concordance Table*

Description

A concordance table for converting 9th revision KSIC codes to 10th revision KSIC codes.

Usage

```
ksic_9_to_10
```

Format

A data frame with 6 columns:

ksic9_cd 9th revision KSIC code.

ksic9_nm 9th revision KSIC name.

ksic10_cd 10th revision KSIC code.

ksic10_nm 10th revision KSIC name.

con Type of connection.

detail Additional details about the connection.

Examples

```
ksic_9_to_10
```

`ksic_convert` *Convert KSIC Codes*

Description

Converts KSIC codes from one revision to another.

Usage

```
ksic_convert(ksic, from_C, to_C)
```

Arguments

`ksic`	character. A vector of 5-digit KSIC codes to convert (e.g., '10111').
`from_C`	integer. The source KSIC revision (9, 10, or 11).
`to_C`	integer. The target KSIC revision (9, 10, or 11).

Value

data.frame. A data.frame containing converted KSIC codes and related information. Only convertible codes from the input will be included.

Examples

```
ksic_convert(c("27192", "27195"), from_C = 10, to_C = 11)

ksic_convert(c("27192", "27195"), from_C = 11, to_C = 10)
```

---

ksic_find *Find KSIC Information by Code*

Description

Searches for KS.IC information by code.

Usage

```
ksic_find(codes)
```

Arguments

codes	character. A vector of KSIC codes.

Value

A data.frame of matching KSIC codes and names.

---

ksic_group *Extract Parent KSIC Codes*

Description

Extracts the parent classification codes corresponding to the input KSIC codes. It can handle a vector containing codes with different numbers of digits.

Usage

```
ksic_group(ksic, digit = 1, C = NULL, name = FALSE)
```

Arguments

ksic	character. A vector of KSIC codes to find parent codes for.
digit	integer. The digit of the parent classification to extract (1-5). Default is 1.
C	integer. The KSIC revision (9, 10, or 11). If NULL, getOption("ksic.C", 11) is used.
name	logical. If TRUE, returns names; if FALSE, returns codes. Default is FALSE.

Value

A character vector of the same length as the input vector, containing parent codes or names. Returns NA if a parent code does not exist.

Examples

```
ksic_group(c("31311", "4631", "25", "A"), digit = 2, name = TRUE)

ksic_group("26222", digit = 4)
```

---

ksic_search *Search KSIC by Keyword*

Description

Searches for KSIC codes by a keyword in Korean or English classification names. If searching with a Korean keyword, the English name (eng_nm) column is excluded from the result.

Usage

```
ksic_search(keyword, C = NULL, ignore.case = TRUE, digit = NULL)
```

Arguments

keyword	character. keyword to search for.
C	integer. The KSIC revision. If NULL, getOption("ksic.C", 11) is used.
ignore.case	logical. If TRUE, the case is ignored during search. Default is TRUE.
digit	integer. Can be a vector of (1-5). If NULL, all digits are searched.

Value

A data.frame of matching KSIC codes and names, or NULL if no match is found.

Examples

```
ksic_search("software", C = 10, ignore.case = FALSE, digit = 5)

ksic_search("data|database")
```

ksic_sub *Extract Child KSIC Codes*

Description

Extracts the child classification codes corresponding to the input KSIC codes. It can handle a vector containing codes with different numbers of digits.

Usage

```
ksic_sub(ksic, digit = 5, C = NULL, name = FALSE)
```

Arguments

ksic	character. A vector of KSIC codes to find child codes for.
digit	integer. The digit of the child classification to extract (1-5). Default is 5.
C	integer. The KSIC revision (9, 10, or 11). If NULL, `getOption("ksic.C", 11)` is used.
name	logical. If TRUE, returns names; if FALSE, returns codes. Default is FALSE.

Value

A list containing vectors of child codes or names for each input code. Returns a list element with NA if no child codes are found.

Examples

```
ksic_sub(c("26", "96", "52636"), digit = 4)

ksic_sub("58", digit = 5, name = TRUE)
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