

Assignment 2.3

Ans 1

Description

Reads a file as a SAS XPORT format library and returns a list of data frames.

Usage

```
read.xport(file)
```

Arguments

file character variable with the name of the file to read. The file must be in SAS XPORT format.

Value

If there is a more than one dataset in the XPORT format library, a named list of data frames, otherwise a data frame. The columns of the data frames will be either numeric (corresponding to numeric in SAS) or factor (corresponding to character in SAS). All SAS numeric missing values (including special missing values represented by ._, .A to .Z by SAS) are mapped to R NA.

Trailing blanks are removed from character columns before conversion to a factor. Some sources claim that character missing values in SAS are represented by ' ' or " ": these are not treated as R missing values.

Ans 2

Description

Reading supports both sas7bdat files and the accompanying sas7bdat files that SAS uses to record value labels. Writing value labels is not currently supported.

Usage

```
read_sas (data_file, catalog_file = NULL, encoding = NULL, catalog_encoding = encoding, cols_only = NULL)
```

```
write_sas(data, path)
```

Examples

```
path <- system.file("examples", "iris.sas7bdat", package = "haven") read_sas(path)
```

Ans 3

Description

Reads data from Weka Attribute-Relation File Format (ARFF) files.

Usage

```
read.arff(file)
```

Arguments

file a character string with the name of the ARFF file to read from, or a connection which will be opened if necessary, and if so closed at the end of the function call.

Value

A data frame containing the data from the ARFF file.

Ans 4

The **readr** package contains functions for reading i) delimited files, ii) lines and iii) the whole file.

PFB the description loading csv/tsv file in r

1. `read_csv()`: to read comma delimited files
2. `read_csv2()`: to read semicolon separated files
3. `read_tsv()`: to read tab delimited files,
4. `read_delim()`: to read in files with any delimiter.
5. `read_fwf()`: to read fixed width files.
6. `read_table()`: to read a common variation of fixed width files where columns are separated by white space.
7. `read_log()`: to read Apache style log files.