Assignment 3.1

Ques.1: How to Import SAS XPORT files into R with the foreign package?

Ans:

#save SAS dataset in trasport format  
libname out xport 'c:/mydata.xpt';  
data out.mydata;  
set sasuser.mydata;  
run;

# in R   
library(Hmisc)  
mydata <- sasxport.get("c:/mydata.xpt")

Ques.2:-How to Import SAS Files into R with the Haven package?

Ans:- # Install the released version from CRAN:

install.packages("haven")

# Install the cutting edge development version from GitHub:

# install.packages("devtools")

devtools::install\_github("hadley/haven")

read\_sas("path/to/file")

Ques.3:- How to read Weka Attribute-Relation File Format (ARFF) files in R?

### Ans:- The @relation Declaration

The relation name is defined as the first line in the ARFF file. The format is:

@relation <relation-name>

where <relation-name> is a string. The string must be quoted if the name includes spaces.

### The @attribute Declarations

The format for the **@attribute** statement is:

@attribute <attribute-name> <datatype>

where the *<attribute-name>* must start with an alphabetic character. If spaces are to be included in the name then the entire name must be quoted.

The *<datatype>* can be any of the four types currently (version 3.2.1) supported by Weka:

* numeric
* <nominal-specification>
* string
* date [<date-format>]

where <nominal-specification> and <date-format> are defined below. The keywords **numeric**, **string** and **date** are case insensitive.

Ques.4:- How to read a heavy csv/tsv file using readr package?

Ans:- **# Installing install.packages("readr")**

**# Loading library("readr")**

* **read\_csv**(): to read a comma (“,”) separated values
* **read\_csv2**(): to read a semicolon (“;”) separated values
* **read\_tsv**(): to read a tab separated (“\t”) values