Univariate Data and Modelling – Exercises

Session 1 – Descriptive statistics

Exercise 1

a) Import BETACAR2 dataset as beta.df

Exercise 2

a) Call the column names of beta.df

Exercise 3

a) Import the ChickWeight dataset as chick.df
b) Call the column names of chick.df
c) Give the mean, median, quartiles, variance and standard deviation of the "weight" variable
d) Do the same for the "chicken" variable. Does this make sense? Any solutions?
e) Change the name of the "chicken" variable in "No."
f) Give the mean, median, quartiles, variance and standard deviation of the "weight" variable by feed
g) Give the frequency table of the feed used in the experiment

Exercise 4

a) Import the monica dataset as monica.df
b) Give the mean, median, quartiles, variance and standard deviation of the "age" variable by sex
c) Draw a boxplot of the "age" variable
d) Draw a separate boxplot of the "age" variable for each sex
e) Draw (by hand) a possible density function of the age of the population for each sex
f) Draw (in R) an estimation of the density function of the age of the population for each sex