Malik Türkoğlu

1-) Quantitave data is numerical , Qualitative is descriptive data, therefore all of them quantiative except gender is qualitative. Qualitative data is multivariate and discrete

2-)we can apply bar chart, histogram, stem-leaf,dot plot for this date set

``x <- read.table(file="C:/Users/malik türkoglu/Documents/HW1 _Data_v1.csv",header=TRUE,sep=";") View(x) x[1,] # check the results

Assing to information to variables

men= x[x[,"GENDER"] == 0,] women = x[x[,"GENDER"] == 1,] sysbp_men = x[x $GENDER == 0 , "SYSBP"] diasbp_men = x[x$GENDER == 0 , "DIASBP"] sysbp_women= x[x$GENDER == 1 , "SYSBP"] diasbp_women = x[x$GENDER == 1 , "DIASBP"]

-3-A-

calc_meansys_men <- mean(sysbp_men) calc_meansys_women <- mean(sysbp_women) calc_meandia_men <- mean(diasbp_men) calc_meandia_women <- mean(diasbp_women)

-3-B- **********

var(sysbp_men) var(sysbp_women) var(diasbp_men) var(diasbp_women)

3-C- **********

sd_sys_men <- sd(sysbp_men) sd_sys_women <- sd(sysbp_women) sd_dia_men <- sd(diasbp_men) sd_dia_women <- sd(diasbp_women)

3-D- **********

sysbp-men

lower_sys_men <- quantile(sysbp_men , 0.25) upper_Sys_men <- quantile(sysbp_men , 0.75)

sysbp - women

lower_sys_women <- quantile(sysbp_women , 0.25) upper_Sys_women <- quantile(sysbp_women , 0.75)

diasbp -men

lower_dia_men <- quantile(diasbp_men , 0.25) upper_dia_men <- quantile(diasbp_women , 0.75)

diasbp- women

lower_dia_women <- quantile(diasbp_women , 0.25) upper_dia_women <- quantile(diasbp_women , 0.75)

-3-E **********

sysbp-men

min(sysbp_men) max(sysbp_men)

sysbp-women

min(sysbp_women) max(sysbp_women)

diasbp-men

min(diasbp_men) max(diasbp_men)

diasbp-women

min(diasbp_women) max(diasbp_women)

-3-F- **********

range sysbp men

ran_sys_men <- max(sysbp_mem) - min(sysbp_men)

range sysbp women

ran_sys_women <- max(sysbp_women) - min(sysbp_women)

range diasbp men

ran_dia_men <- max(diasbp_men) - min(diasbp_men)

range diasbp women

ran_dia_women<- max(diasbp_women) - min(diasbp_women)

-3-G- **********

range/std

men Sysbp

ran_sys_men/sd_sys_men #women sysbp ran_sys_women/sd_sys_women #men diasbp ran_dia_men/sd_dia_men #women diasbp
ran_dia_women/sd_dia_women

-3-H **********

calc_median_sys_men <- median(sysbp_men) calc_median_sys_women <- median(sysbp_women) calc_median_dia_men <- median(diasbp_men) calc_median_dia_women <- median(diasbp_women)

-3-i- **********

men sysbp

upper_sys_men - lower_sys_men

women sysbp

upper_Sys_women - lower_sys_women

men diasbp

upper_dia_men - lower_dia_men

women diasbp

upper_dia_women - lower_dia_women

-3-J- **********

five number men-sysbp

fivenum(sysbp_men)

five number women-sysbp

fivenum(sysbp_women)

five number men-diasbp

fivenum(diasbp_men)

five number of women-diasbp

fivenum(diasbp_women)

-3-L- **********

stem-leaf plot for men sysbp

stem(sysbp_men)

stem-leaf plot for women sysbp

stem(sysbp_women)

stem-leaf plot for men diasbp

stem(diasbp_men)

stem-leaf plot for women diasbp

stem(diasbp_women)

-3-M- **********

histogGRams of men sysbp

hist(sysbp_men, col = 9) #histograms of women sysbp hist(sysbp_women, col = 3) #histograms of men diasbp hist(diasbp_men, col = 14) #histograms of women diasbp hist(diasbp_women, col = 4)

-3-N- **********

dotplot sysbp men

plot(sysbp_men,pch=19, col=7) #dotplot sysbp women plot(sysbp_women,pch= 19, col=1) #dotplot diasbp men plot(diasbp_men,pch=19, col=8) #dotplot diasbp women plot(diasbp_women,pch=19, col=19)

-3-Q- **********

plot(sysbp_men, diasbp_men, pch = 19, col = c(“blue”)) plot(sysbp_women, diasbp_women, pch = 19, col = c(“black”))

R Markdown