data1=Forbes2000

str(data1)

View(Forbes2000)

summary(Forbes2000)

#MEAN OF sales,profits,assets,marketvalue.

mean(Forbes2000$sales)

mean(Forbes2000$profits)

mean(Forbes2000$assets)

mean(Forbes2000$marketvalue)

#MEDIAN OF sales,profits,assets,marketvalue.

median(Forbes2000$sales)

median(Forbes2000$profits)

median(Forbes2000$assets)

median(Forbes2000$marketvalue)

#MODE OF sales,profits,assets,marketvalue.

data=table(as.vector(Forbes2000$sales))#converts into table

data

names(data)[data==max(data)]

data2=table(as.vector(Forbes2000$profits))

names(data2)[data2==max(data2)]

data3=table(as.vector(Forbes2000$assets))

names(data3)[data3=max(data3)]

#SUMMARY

summary(Forbes2000)

#MINIMUN sales,profits,assets,marketvalue.

min(Forbes2000$sales)

min(Forbes2000$profits)

min(Forbes2000$assets)

min(Forbes2000$marketvalue)

#MAX OF sales,profits,assets,marketvalues

max(Forbes2000$sales)

max(Forbes2000$profits)

max(Forbes2000$assets)

max(Forbes2000$marketvalue)

#Varience

var(Forbes2000$sales)

var(Forbes2000$profits)

var(Forbes2000$assets)

var(Forbes2000$marketvalue)

#Inter Quartile Relation

a=IQR(Forbes2000$sales)

b=IQR(Forbes2000$profits)

c=IQR(Forbes2000$assets)

d=IQR(Forbes2000$marketvalue)

#Stabdard Deviation

sd(Forbes2000$sales)

sd(Forbes2000$profits)

sd(Forbes2000$assets)

sd(Forbes2000$marketvalue)

#quartile Deviation

a1=a/2

a1

b1=b/2

b2

c2=c/2

c2

d2=d/2

d2

#coeficient of varince

(var(Forbes2000$sales)/mean(Forbes2000$sales)\*100)

(var(Forbes2000$profits)/mean(Forbes2000$profits)\*100)

(var(Forbes2000$assets)/mean(Forbes2000$assets)\*100)

(var(Forbes2000$marketvalue)/mean(Forbes2000$marketvalue)\*100)

#draw bar graph

hist(Forbes2000$sales)

hist(Forbes2000$sales,col='yellow')

hist(Forbes2000$profits)

hist(Forbes2000$profits,col='red')

hist(Forbes2000$assets)

hist(Forbes2000$assets,col='green')

hist(Forbes2000$marketvalue)

hist(Forbes2000$marketvalue,col='orange')

##MAD

mad(Forbes2000$sales)

mad(Forbes2000$profits)

mad(Forbes2000$assets)

mad(Forbes2000$marketvalue)

##standard deviation

sd(Forbes2000$sales)

sd(Forbes2000$profits)

sd(Forbes2000$assets)

sd(Forbes2000$marketvalue)

##quantaile

quantile(Forbes2000$sales,probs=c(0.25,0.5,0.75,1))

quantile(Forbes2000$profits,probs=c(0.25,0.5,0.75,1))

quantile(Forbes2000$assets,probs=c(0.25,0.5,0.75,1))

quantile(Forbes2000$marketvalue,probs=c(0.25,0.5,0.75,1))

quantile(Forbes2000$sales)

quantile(Forbes2000$profits)

quantile(Forbes2000$assets)

quantile(Forbes2000$marketvalue)

#DECILE

quantile(Forbes2000$sales,probs=c(0.1,0.2,0.3,0.4,0.5,0.6,0.7,0.8,0.9,1))

quantile(Forbes2000$profits,probs=c(0.1,0.2,0.3,0.4,0.5,0.6,0.7,0.8,0.9,1))

quantile(Forbes2000$assets,probs=c(0.1,0.2,0.3,0.4,0.5,0.6,0.7,0.8,0.9,1))

quantile(Forbes2000$marketvalue,probs=c(0.1,0.2,0.3,0.4,0.5,0.6,0.7,0.8,0.9,1))

#OUTLAYER

quantile(Forbes2000$sales,probs=c(0))

quantile(Forbes2000$profits,probs=c(0))

quantile(Forbes2000$assets,probs=c(0))

quantile(Forbes2000$marketvalue,probs=c(0))

##Q1 and Q3

Q1=quantile(Forbes2000$sales,probs=.25)

Q1

Q1\_1=quantile(Forbes2000$profits,probs=.25)

Q1\_1

Q1\_2=quantile(Forbes2000$assets,probs=.25)

Q1\_2

Q1\_3=quantile(Forbes2000$marketvalue,probs=.25)

Q1\_3

Q3=quantile(Forbes2000$sales,probs=.25)

Q3

Q3\_1=quantile(Forbes2000$profits,probs=.25)

Q3\_1

Q3\_2=quantile(Forbes2000$assets,probs=.25)

Q3\_2

Q3\_3=quantile(Forbes2000$marketvalue,probs=.25)

Q3\_3

##coeff of Quartle deviat

IQR(Forbes2000$sales)/(Q3+Q1)

IQR(Forbes2000$profits)/(Q3\_1+Q1\_1)

IQR(Forbes2000$assets)/(Q3\_2+Q1\_2)

IQR(Forbes2000$marketvalue)/(Q3\_3+Q1\_3)

##boxplot

boxplot(Forbes2000$sales)

boxplot(Forbes2000$profits)

boxplot(Forbes2000$assets)

boxplot(Forbes2000$marketvalue)

##outlayer

bp=boxplot(Forbes2000$sales)

bp

bp1=boxplot(Forbes2000$assets)

bp1

bp2=boxplot(Forbes2000$marketvalue)

bp2