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Course MCA Subject: R Language

Semester = 1

Question 3.

Analyze any csv dataset using R.

```
Library (dplyr)
setwd ("C:/Users/91750/Documents")
mydata <- read.csv ("freedom.csv")
getwd
head (mydata)
tail (mydata)
str (mydata)
view (mydata)
hist (as.numeric (mydata $ X2019.Score),
xlab = "2019 Score", col = "red",
border = "blue")
data = "blue")
data <- mydata [1:5,]
pie (table (data $ Investment.Freedom))
plot (x = mydata $ Business.Freedom,
y = mydata $ Labour.Freedom,
```

```
xlab = "Bussiness Freedom",
ylab = "Labour Freedom",
xlim = c(1,100)),
Ylim = c(1,100)).
plot (mydata $ Gov.t. spending, type = "0", col =
"blue",
xlab = "Govt's spending", ylab = "2019 Score")
boxplot (as. numeric (mydata $Rank), as. numeric
(mydata $ Goverment. Integrity))
```

Q.4 Discuss Descriptive and Inferential Statistics of 3 above dataset.

Descriptive Statistics.

Summery: Gives us the descriptive stats like

In case of Numerical data:

Gives Mean, Mode, Median, Range

⇒ Mean = 32.2021

⇒ Mode = 24

⇒ Median = 14.542

⇒ Range = ~~0 - 99.5~~ 0 – 100

⇒ Var() = 2469.477

⇒ Sqrt (Var) = 49.69343.

Inferential Statistics.

i) Hypothesis Testing.
(Z-test, t-test)

ii) Regression Analysis.

Check relationship between dependent and independent variables