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Paper Name - Scripting language and R lab
Paper Code - PMC 103
Type of Paper - Regular.

Ans. 2.

```
# Dplyr library function
library (dplyr)
setwd ("G:/MCA")
mydata <- read.csv ("most-runs.csv")
mydata

# Descriptive statistics
summary (mydata)
dim (mydata)
str (mydata)
names (my data)

# select function
my subdata <- select (mydata, batsman, average
my subdata

# filter & arrange function.
mysubdata.1 <- filter (mydata, average >50)
my subdata 1.
```

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my subdata 2 <- arrange (mydata, desc(average))
my subdata 3 <- arrange (mydata, disc (strikerate))
Top and Bottom 5 average Batsman
head (my subdata 2)
tail (my subdata 2)
mutate function (to add coloumn to data set)
my data <- mutate (mydata, Performance = runs-balls)
Different Plot of Dataset
Histogram
hist(mydata $ average , col = c('blue','green','red'),
x lab = "Average", y lab = "players", break = 50)
scattered Plot
plot (mydata $ strikerate , col = c ('blue','green','red'),
x.lab = "Players", y lab = "strikerate")
# Bar Plot
barplot (mydata $ average , col = c('blue','green','red')
x.lab = "players", y lab = "Average!")
# BoxPlot
boxplot (mydata $ average , col = c ('Blue','green',
'red')
x lab = "Players", y lab = "Average")

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Ans. 4.

descriptive statistics.
summary (mydata)
dim (mydata)
str (mydata)
names (mydata)

Inferential statistics.

# Chi-squared test
model <- chisq.test (mydata)
model.

output p-value = 0.446783 > 0.05

Thus 'mydata' is highly correlated and we accept the NULL Hypothesis.

# correlation coefficient
cor(mydata $ Batsman, mydata $ runs)

output 0.99324 > 0.8

Thus Batsman & runs is strongly correlated to each other

# Anova test
mysubdata4 <- aov(mydata $ runs ~ mydata $ average)
mysubdata4

output Pr(>F) is 0.0013 as this value is less than 0.05 then we reject NULL Hypothesis and accept the alternative Hypothesis

T-Test

This gives us the T-score for the dataset

t.test (mydata, mu = 100)

Here p-value is 0.44683 > 0.05

So we accept the NULL Hypothesis

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