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Course- MCA 'B'.

Subject- R Programming.

Roll no- 66

Ans 3 →

- Shampoo Sales.csv
- Selecting Working Directory
- Setwd("C:/users/Jay/Document")
- Reading of .csv file.

my data 1 <- read.csv("Shampoo Sales.csv")

- Installing ggplot package
install.packages("ggplot2")

- Using ggplot library
library(ggplot2)

- Histogram

```
ggplot(mydata 1, aes (y = Sales, x = month)) +  
  geom_bar (stat = "identity")
```

- Pie chart

```
ggplot (mydata 1, aes (y = "", fill = sales, x = month)) +  
  geom_bar (width=1, stat = "identity") +  
  coord_polar ("x", start = 0)
```

- boxplot

```
ggplot (my data 1, aes (x=Month, y= Sales))  
geom = boxplot ().
```

- Scatter Plotting

```
ggplot (my data 1, aes (x=month, y=sales)) + geom.point ()
```

Ans 4. → Minimum

```
min (my data 1 $ sales)  
[1] 119.3
```

Maximum

```
max (my data 1 $ sales)  
[1] 682
```

Mean

```
mean (my data 1 $ sales)  
[1] 312.6
```

Median

```
median (my data 1 $ sales)  
[1] 280.15.
```

Quantile.

```
quantile (my data 1 $ sales, 0.75)  
75%
```

```
quantile (my data 1 $ sales, 0.25)
```

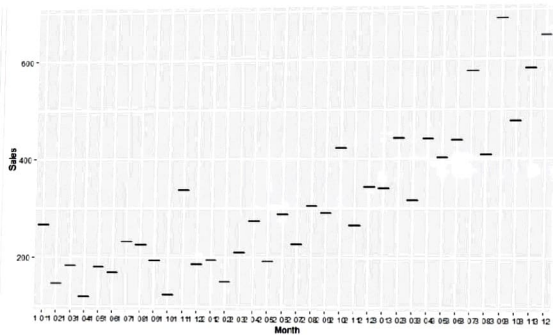
Standard deviation

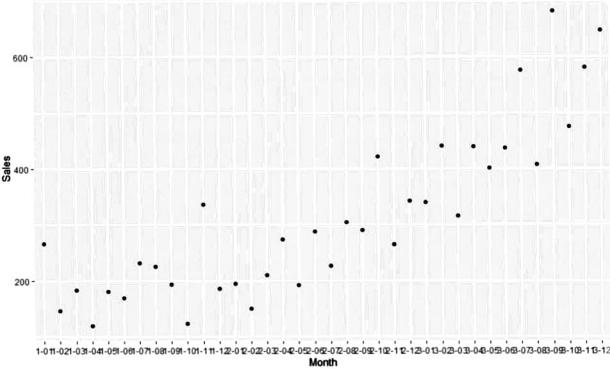
```
sd (my data 1 $ sales)  
[1] 148.9372.
```

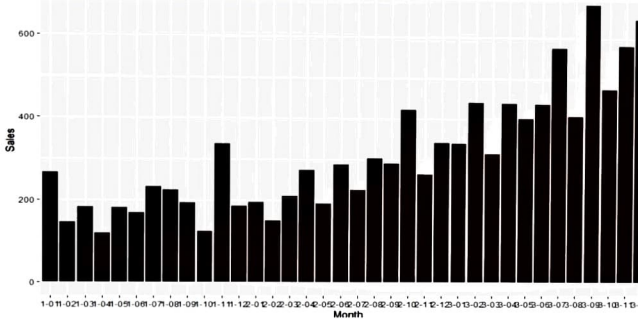
Variance

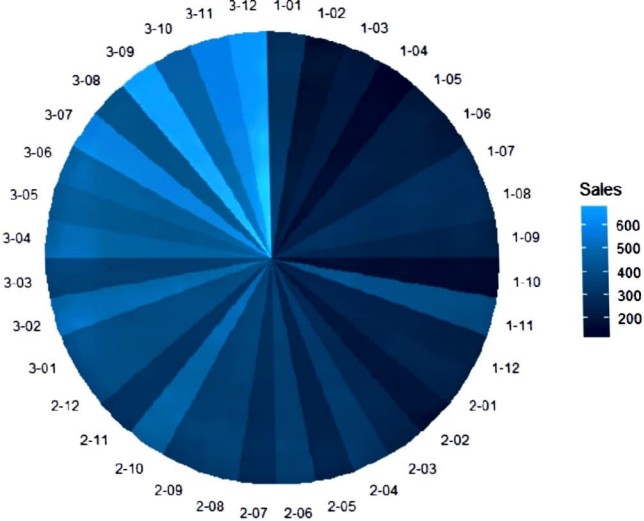
Var (my data & sales)

(1) 22102.28.









```
> min(mydata1$Sales)
[1] 119.3
> max(mydata1$Sales)
[1] 682
> mean(mydata1$Sales)
[1] 312.6
> median(mydata1$Sales)
[1] 280.15
> quantile(mydata1$Sales,0.75)
 75%
411.1
> quantile(mydata1$Sales,0.25)
 25%
192.45
> sd(mydata1$Sales)
[1] 148.9372
> var(mydata1$Sales)
[1] 22182.28
> summary(mydata1)
```