Assignment_1

2024-29-01

```
demotest <-read.csv("CARS_1.csv")
print(head(demotest))
```

```
##             car_name reviews_count fuel_type engine_displacement no_cylinder
## 1    Maruti Alto K10            51    Petrol                 998           3
## 2      Maruti Brezza            86    Petrol                1462           4
## 3      Mahindra Thar           242    Diesel                2184           4
## 4    Mahindra XUV700           313    Diesel                2198           4
## 5 Mahindra Scorpio-N           107    Diesel                2198           4
## 6    Toyota Fortuner            99    Diesel                2755           4
##   seating_capacity transmission_type fuel_tank_capacity body_type rating
## 1                5         Automatic                 27 Hatchback    4.5
## 2                5         Automatic                 48       SUV    4.5
## 3                4         Automatic                 57       SUV    4.5
## 4                7         Automatic                 60       SUV    4.5
## 5                7         Automatic                 57       SUV    4.5
## 6                7         Automatic                 80       SUV    4.5
##   starting_price ending_price max_torque_nm max_torque_rpm max_power_bhp
## 1         399000       583000          89.0           3500         65.71
## 2         799000      1396000         136.8           4400        101.65
## 3        1353000      1603000         300.0           2800        130.00
## 4        1318000      2458000         450.0           2800        182.38
## 5        1199000      2390000         400.0           2750        172.45
## 6        3240000      4957000         500.0           2800        201.15
##   max_power_rp
## 1         5500
## 2         6000
## 3         3750
## 4         3500
## 5         3500
## 6         3400
```

```
demotest$fuel_tank_capacity
```

```
##   [1]  27.0  48.0  57.0  60.0  57.0  80.0  50.0  37.0  60.0  37.0  44.0  45.0
##  [13]  50.0  54.0  50.0  37.0  55.0  45.0  45.0  37.0  40.0  90.0  60.0  37.0
##  [25]  42.0  60.0  37.0  60.0  45.0  30.0  40.0  32.0  40.0  28.0  89.0  60.0
##  [37]   0.0  60.0  40.0  27.0  45.0  75.0  35.0  40.0  50.0  37.0  45.0  45.0
##  [49]  32.0   0.0  68.0  50.0  45.0   0.0  65.0  63.0  48.0  43.0  60.0  50.0
##  [61]  80.0   0.0  58.0  80.0  75.0  90.0  51.0   0.0   0.0  60.0   0.0  50.0
##  [73]  66.0  73.0  54.0   0.0  60.0  40.0  82.0  40.0  70.0  58.0  54.0   0.0
##  [85]  52.0  59.0  50.0  45.0   0.0  83.0  70.0  35.0  55.0   0.0  80.0   0.0
##  [97]  46.0   0.0   0.0   0.0  70.0  28.0  51.0   0.0   0.0  55.0  90.0  90.0
```

```
## [109]  52.5  35.0   0.0  65.0  61.7   0.0  82.0  35.0  35.0   0.0   0.0  35.0
## [121]   0.0  75.0  65.0   0.0  82.0   0.0  55.0   0.0  90.0   0.0  80.0   0.0
## [133]  66.0  81.0   0.0  80.0  45.0  85.0  90.0   0.0  92.0  73.0   0.0  72.0
## [145] 100.0  74.0  52.0   0.0  83.0  57.0  64.0   0.0  44.0  80.0  55.0  70.0
## [157]  85.0  68.0   0.0  82.0  86.0  78.0  93.0   0.0  68.0  51.0  66.0  75.0
## [169]  85.0  73.0   0.0   0.0  65.0  65.0   0.0   0.0  83.0  80.0  44.0  66.0
## [181]  60.0  93.0   0.0  57.0   0.0  50.0  50.0   0.0  55.0  51.0  66.0  37.0
## [193]  37.0   0.0   0.0  40.0  60.0  60.0   0.0  59.0  60.0  85.0  35.0
```

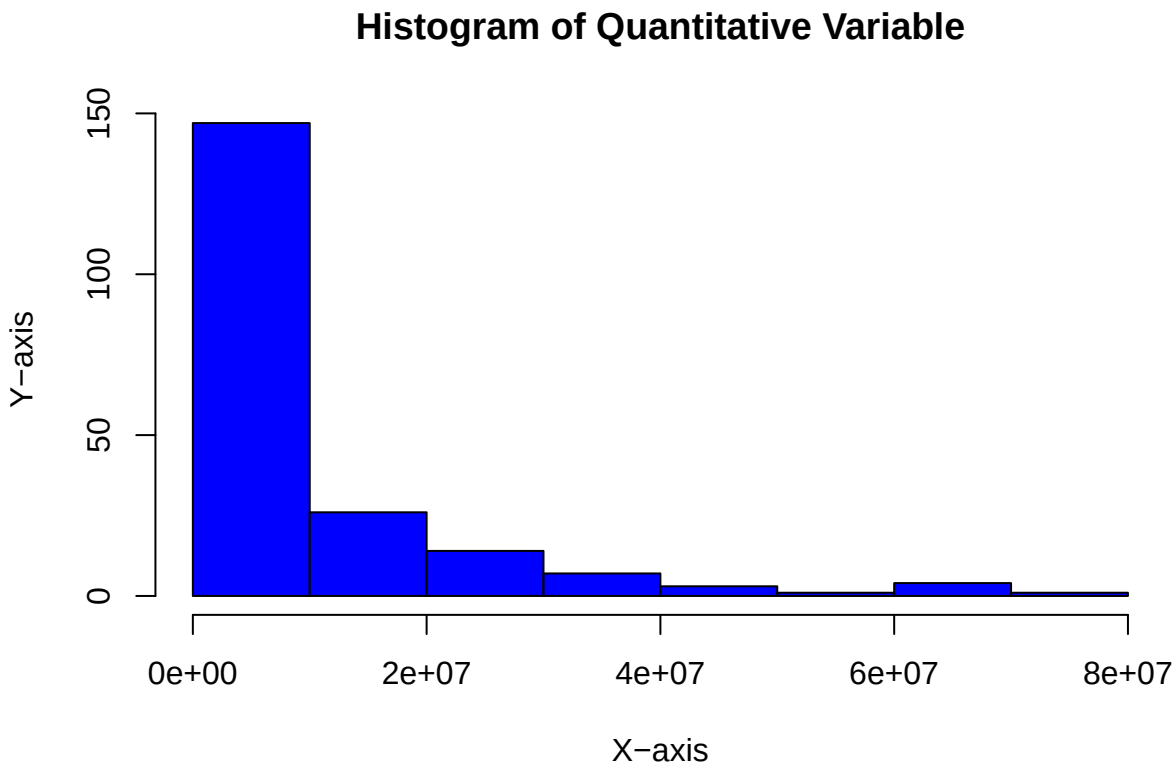
```
table(demotest$transmission_type)
```

```
##
## Automatic  Electric    Manual
##       160        14        29
```

```
x<-log(demotest$fuel_tank_capacity)
head(x)
```

```
## [1] 3.295837 3.871201 4.043051 4.094345 4.043051 4.382027
```

```
hist(demotest$starting_price,xlab="X-axis",ylab="Y-axis",main="Histogram of Quantitative Variable",col=
```



```r
plot(demotest$max_power_bhp,xlab="X-axis",ylab="Y-axis",main="SCATTER PLOT",pch=6,col="orange")
```