

R programming:-

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Analyze csv dataset using R.

- ① \Rightarrow Working directory :-
Set wd ("C:/Users/Rajat ")
- ② \Rightarrow Read of .csv file :-
RJ \leftarrow read.csv (" ~~Movie~~^{cars} .csv ")
- ③ \Rightarrow Structure of dataset \Rightarrow
str (dataX)
- ④ \Rightarrow Head of data set \Rightarrow
head (dataX)
- ⑤ \Rightarrow tail of dataset \Rightarrow
tail (dataX)
- ⑥ \Rightarrow minimum of dataset \Rightarrow ~~runtime~~ Horsepower
min (dataX \$ ~~runtime~~)
- ⑦ \Rightarrow maximum of dataset \Rightarrow ~~runtime~~ Horsepower
max (dataX \$ ~~runtime~~)
- ⑧ \Rightarrow Mean of data set \Rightarrow Horsepower
mean (dataX \$ ~~runtime~~)
- ⑨ \Rightarrow Median of data set \Rightarrow Horsepower
median (dataX \$ ~~runtime~~)
- ⑩ \Rightarrow Summary of data set \Rightarrow
Summary (dataX)

Answer 4

Descriptive Statistics:

Here we take the data of Movies and runtime in our data.

1) Bar graph \Rightarrow

```
ggplot (datax, aes (x = identification, y = Horsepower))  
+ geom_bar  
(stat = "identity")
```

2) Box Plot chart \Rightarrow

```
ggplot (datax, aes (x = identification, y = Horsepower)) + geom_boxplot()
```

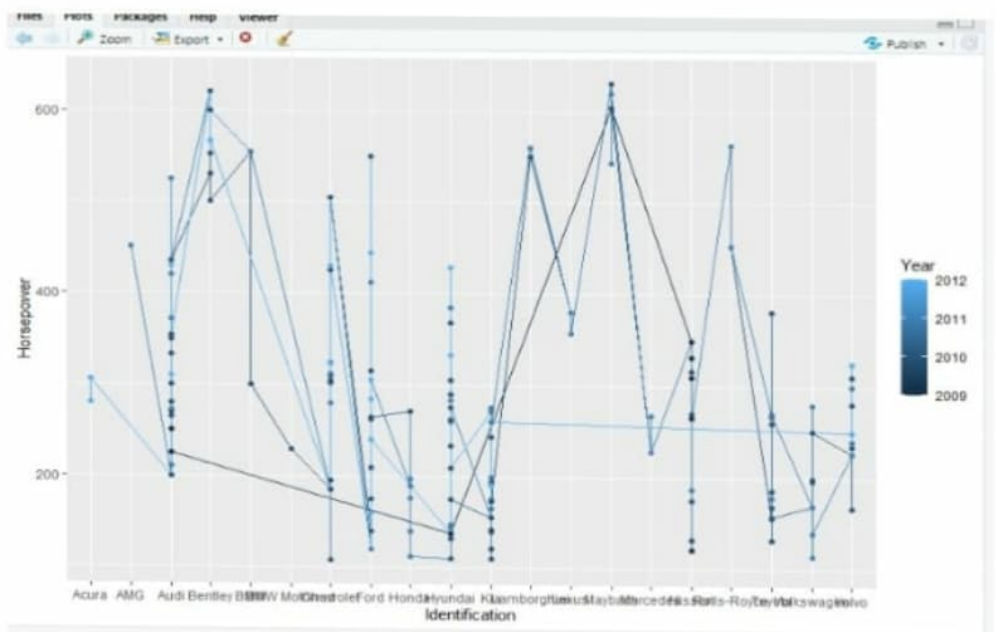
3) Line graph \Rightarrow

```
ggplot (datax, aes (x = Identification, y = Horsepower,  
group = year, colour = year))  
+ geom_line () + geom_point ()
```

4) Pie chart \Rightarrow

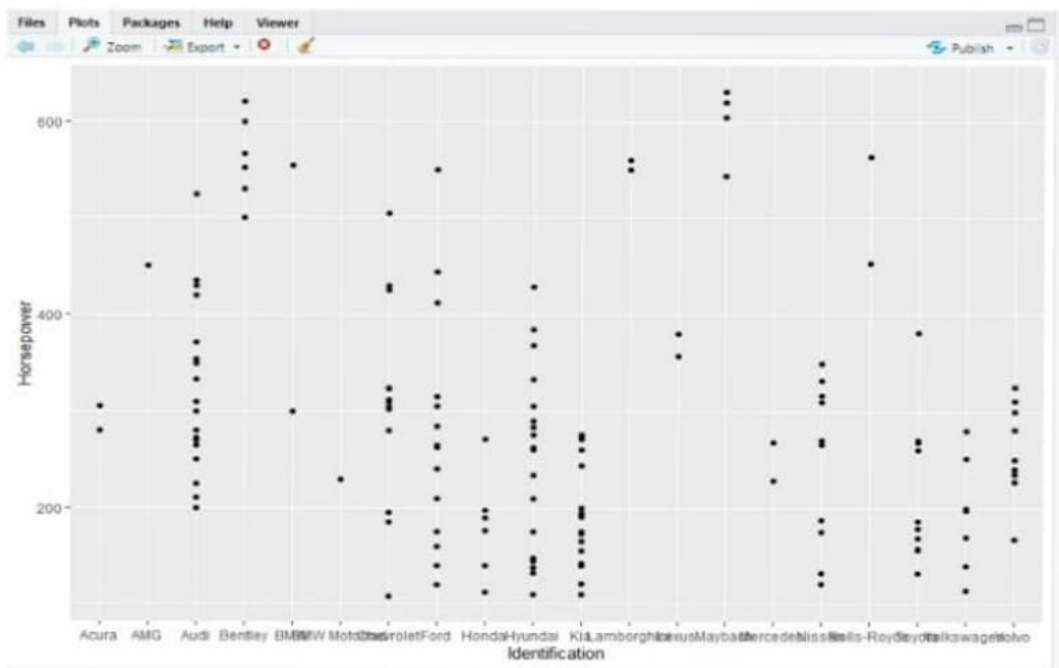
```
ggplot (datax, aes (y = "", fill = identification,  
x = Horsepower))  
+ geom_bar (width = 1, stat = "identity")  
+ coord_polar ("x", start = 1)
```

- **Line Graph—**
- **Syntax:** `ggplot(datax ,
aes(x = Identification, y =
Horsepower , group=
Year, colour=Year))
+geom_line()
+geom_point()`



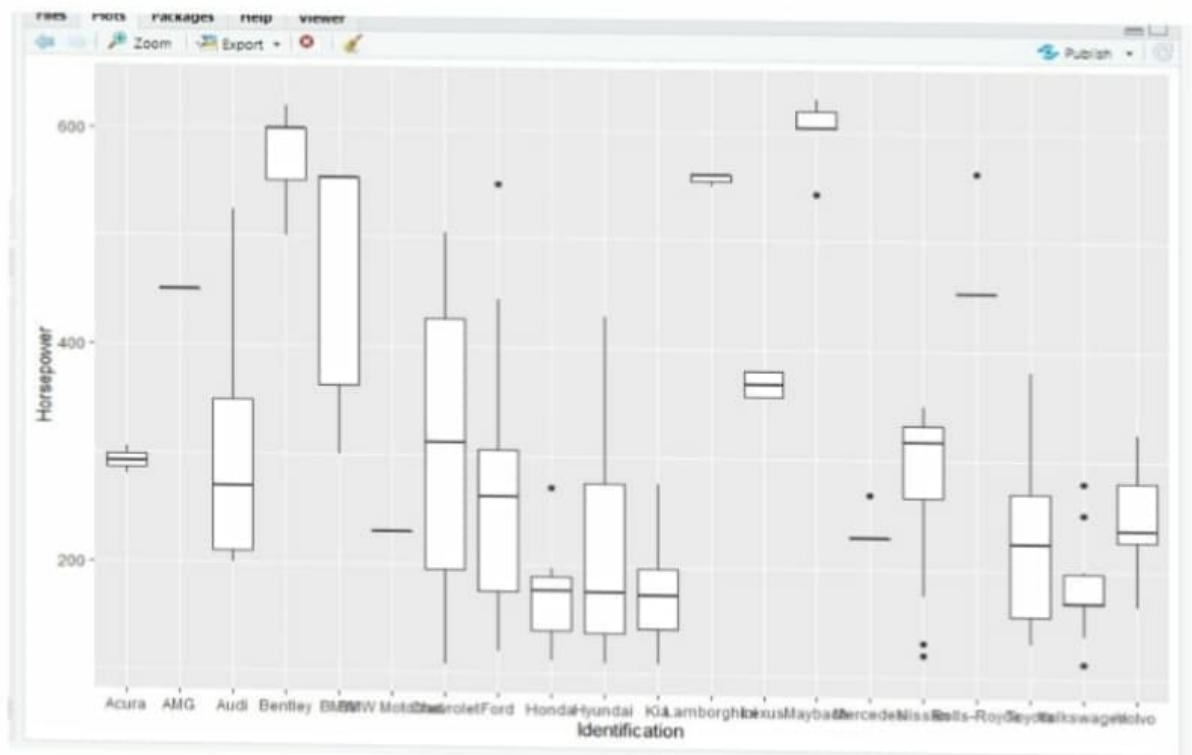
- Scatter-Plotting Chart—

Syntax: `ggplot(datax ,
aes(x = Identification, y =
Horsepower)) +
geom_point()`



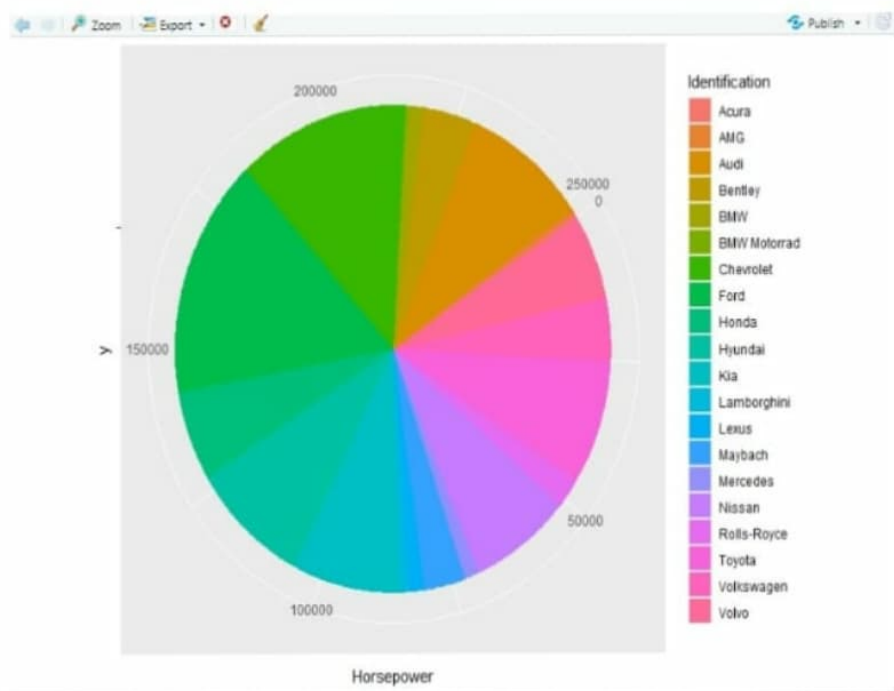
- **BoxPlot Chart—**

Syntax: `ggplot(datax ,
aes(x = Identification, y =
Horsepower)) +
geom_boxplot()`



● Pie Chart—

Syntax: `ggplot(datax ,
aes(y="" , fill
=Identification, x =
Horsepower))+geom_bar(
width = 1 , stat =
"identity")+coord_polar("
x" , start=1)`



- **Bar Graphs —**

Syntax—

```
ggplot(datax ,  
aes(x=Identification , y=  
Horsepower )) +  
geom_bar(stat =  
"identity")
```

