COMPSCIX 415.2 Homework 2

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My Github repository for my assignments can be found below URL: (https://github.com/santumagic/compscix-415-2assignments.git)

<pre>library(tidyverse)</pre>	
library(mdsr)	

Section 3.2.4: Excercises

Question 1:

<pre>ggplot(data = mpg)</pre>

Answer:

From the above function, I see a blank graph, which is a coordinate system.

Question 2:

glimpse(mpg)

```
## Observations: 234
## Variables: 11
## $ manufacturer <chr> "audi", "audi", "audi", "audi", "audi", "audi", "...
                                                           <chr> "a4", "a4", "a4", "a4", "a4", "a4", "a4", "a4", "a4 qua...
## $ model
                                                           <dbl> 1.8, 1.8, 2.0, 2.0, 2.8, 2.8, 3.1, 1.8, 1.8, 2.0,...
## $ displ
                                                           <int> 1999, 1999, 2008, 2008, 1999, 1999, 2008, 1999, 1...
## $ year
## $ cyl
                                                           <int> 4, 4, 4, 4, 6, 6, 6, 4, 4, 4, 4, 6, 6, 6, 6, 6, 6...
## $ trans
                                                           <chr> "auto(15)", "manual(m5)", "manual(m6)", "auto(av)...
                                                           ## $ drv
                                                           <int> 18, 21, 20, 21, 16, 18, 18, 18, 16, 20, 19, 15, 1...
## $ cty
## $ hwy
                                                           <int> 29, 29, 31, 30, 26, 26, 27, 26, 25, 28, 27, 25, 2...
## $ fl
                                                            <chr> "compact", 
## $ class
```

Answer:

There are 234 rows (observations) and 11 columns (varibles).

Question 3:

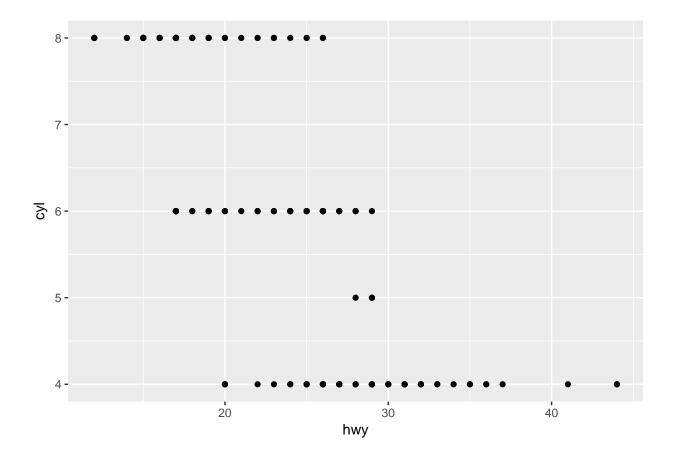
```
?mpg
```

Answer:

drv variable describes the drive type of the vehicle like f = front wheel drive, r = rear wheel drive etc.

Question 4:

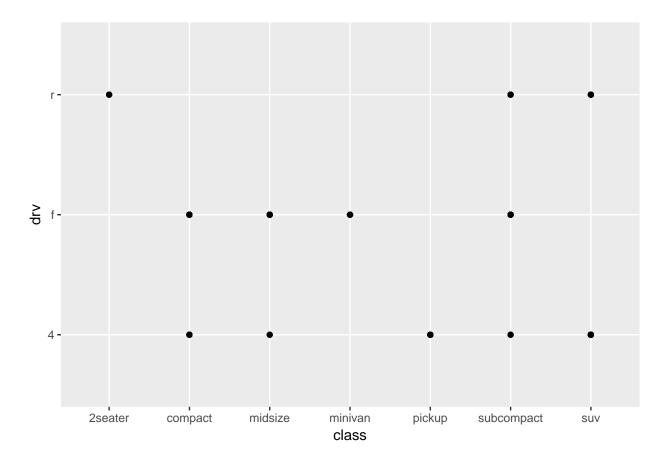
```
ggplot(data = mpg) + geom_point(mapping = aes(x = hwy, y = cyl))
```



Answer:

Question 5:

```
ggplot(data = mpg) + geom_point(mapping = aes(x = class, y = drv))
```



Answer:

The graph is not useful because there is no clear relation between drv and class of a vehicle. For example, there are no front wheel and rear wheel drive types are 2 seater vehicles.