28.2.1 Exercise-2 PDF

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```
library(tidyverse)
```

```
-- Attaching core tidyverse packages ------------------------ tidyverse 2.0.0 --
v dplyr     1.1.3     v readr     2.1.4
v forcats   1.0.0     v stringr   1.5.0
v ggplot2   3.4.4     v tibble    3.2.1
v lubridate 1.9.3     v tidyr     1.3.0
v purrr     1.0.2
-- Conflicts ------------------------------------------ tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()    masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to becor
```

Exercise 2

```
colnames(mpg)
```

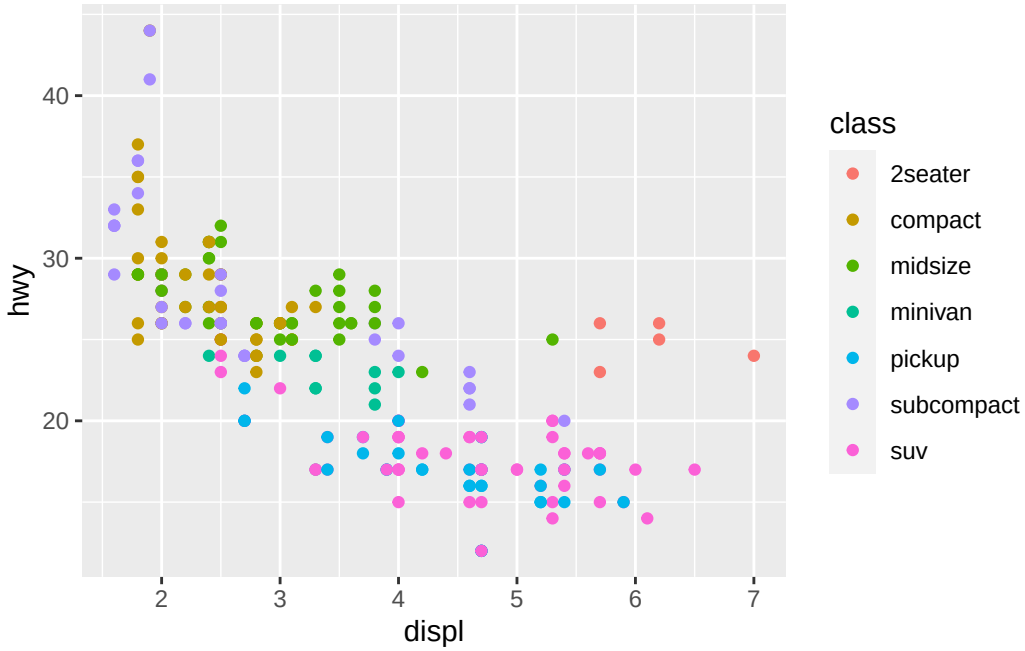
```
 [1] "manufacturer" "model"        "displ"        "year"         "cyl"
 [6] "trans"        "drv"          "cty"          "hwy"          "fl"
[11] "class"
```

```
mpg |>
  count(manufacturer)
```

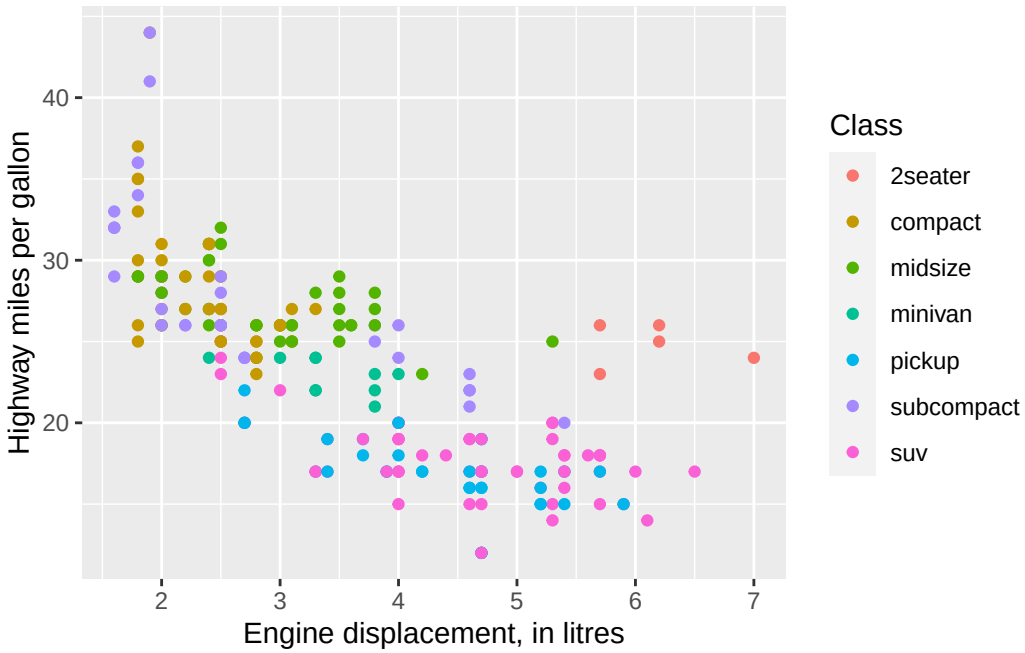
```
# A tibble: 15 x 2
   manufacturer     n
   <chr>        <int>
```

```
 1 audi            18
 2 chevrolet       19
 3 dodge           37
 4 ford            25
 5 honda            9
 6 hyundai         14
 7 jeep             8
 8 land rover       4
 9 lincoln          3
10 mercury          4
11 nissan          13
12 pontiac          5
13 subaru          14
14 toyota          34
15 volkswagen      27
```

```
mpg |>
  ggplot(aes(
    x = displ,
    y = hwy,
    color = class)
    ) +
  geom_point()
```




```
mpg |>
  ggplot(aes(
    x = displ,
    y = hwy,
    color = class)
    ) +
  geom_point() +
  labs(
    x = "Engine displacement, in litres",
    y = "Highway miles per gallon",
    color = "Class"
  )
```


Highway miles per gallon
40
30
20
2
3
4
5
6
7
Engine displacement, in litres
Class
2seater
compact
midsize
minivan
pickup
subcompact
suv