tasks for chapter 2

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Task

15 volkswagen

2003.

- 1. Make sure to have the mpg dataset loaded by typing data(mpg) (and library(ggplot2) if you haven't!). Use the table function to find out how many cars were built by mercury? table(mpg\$manufacturer), 4.
- 2. What is the average year the audi's were built in this dataset? Use the function mean on the subset of column year that corresponds to audi. (Be careful: subsetting a tibble returns a tibble (and not a vector)!. so get the year column after you have subset the tibble.)

 mean(subset(mpg,subset=manufacturer=="audi")\$year), mean(mpg[mpg\$manufacturer=="audi","year"]\$year)
- 3. Use the dplyr piping syntax from above first with group_by and then with summarise(newvar=your_expression) to find the mean year by manufacturer!

```
library(ggplot2)
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
mpg %>%
  group_by(manufacturer) %>%
  summarise(year=mean(year))
## # A tibble: 15 x 2
##
      manufacturer year
##
      <chr>
                    <dbl>
##
   1 audi
                    2004.
    2 chevrolet
                    2005.
##
##
   3 dodge
                    2004.
##
   4 ford
                    2003.
    5 honda
                    2003
##
##
    6 hyundai
                    2004.
##
   7 jeep
                    2006.
  8 land rover
                    2004.
## 9 lincoln
                   2002
## 10 mercury
                    2004.
## 11 nissan
                    2004.
## 12 pontiac
                    2003.
## 13 subaru
                    2004.
## 14 toyota
                    2003.
```