Homework5

Baxter Worthing

9/26/2018

question 1

```
150 observations
5 variables
```

question 2

```
iris.1 <- filter(iris, Species == "virginica" | Species == "versicolor", Sepal.Length > 2.5)
```

```
100 observations
5 variables
```

question3

```
iris.2 <- select(iris.1, Species, Sepal.Length, Sepal.Width)
```

```
100 observations
3 variables
```

question4

```
iris.3 <- arrange(iris.2, desc(Sepal.Length))
head(iris.3)
```

	Species	Sepal.Length	Sepal.Width
1	virginica	7.9	3.8
2	virginica	7.7	3.8
3	virginica	7.7	2.6
4	virginica	7.7	2.8
5	virginica	7.7	3.0
6	virginica	7.6	3.0

question5

```
iris.4 <- mutate(iris.3, Sepal.area = Sepal.Length*Sepal.Width)
```

```
100 obervations
4 variables
```

question6

```
 iris.5 <- summarize(iris.4, meanLength = mean(Sepal.Length), meanWidth = mean(Sepal.Width), smapleSize
```

```
print(iris.5)
  meanLength meanWidth smapleSize
1      6.262     2.872        100
```

question7

```
 iris.4 <- group_by(iris.4, Species)

 iris.6 <- summarize(iris.4, meanLength = mean(Sepal.Length), meanWidth = mean(Sepal.Width), smapleSize

 print(iris.6)
# A tibble: 2 x 4
  Species    meanLength meanWidth smapleSize
  <fct>           <dbl>     <dbl>      <int>
1 versicolor       5.94      2.77         50
2 virginica        6.59      2.97         50
```

question8

“‘ iris %>% + filter(iris, Species == “virginica” | Species == “versicolor”, Sepal.Length > 2.5) %>% + select(iris.1, Species, Sepal.Length, Sepal.Width) %>% + arrange(iris.2, desc(Sepal.Length)) %>% + arrange(iris.2, desc(Sepal.Length)) %>% + group_by(iris.4, Species) %>% + summarize(iris.4, meanLength = mean(Sepal.Length), meanWidth = mean(Sepal.Width), smapleSize = n()) %>% + summarize(iris.4, meanLength = mean(Sepal.Length), meanWidth = mean(Sepal.Width), smapleSize = n()) -> iris6