Case Study 1. Pollutant Data

1. What is the mean of “Temp” when “Month” is equal to 6?

2. How many observations are there in the given data?

3. Print last two rows of the data.

4. What is the value of Ozone in 47th row?

5. How many values are missing in Ozone column?

6. What is the mean of Ozone column excluding missing values?

7. Extract the subset of rows of the data frame where Ozone values are above 31 and Temp values are above 90. What is the mean of Solar.R in this subset?

8. What is maximum ozone value in month of may(i.e month is equal to 5)

Case Study 2: Hair Color Data

1. How many people have brown eye color?

2. How many people have Blonde hair?

3. How many Brown haired people have Black eyes?

4. What is the percentage of people with Green eyes?

5. What percentage of people have red hair and Blue eyes?

Case Study 3: Germination Data Set

1. What is the average number of seeds germinated for the uncovered boxes with level of watering equal to 4?

2. What is the median value for the data covered boxes?

3. Establish conclusions on the basis of available data:

a. Association of levels of watering with the number of germinating seeds in case of covered boxes as well as uncovered boxes.

b. Association of number of germinating seeds with the fact that the boxes were covered or uncovered

Case Study 4: Iris Data Set

Plot the box plots for the iris data set.

Case Study 5” Iris Data Set

Plot the scatter plot for the iris data set

Homework for Practice

Consider the atheletes dataset

1. What is the minimum weight of female atheletes from germany?

2. Calculate average height of male athelete from USA and compare it with average height of male athlete from china.

3. Identify tallest athlete from entire data set.

4. Identify the heaviest athlete from entire dataset.

5. Calculate the average height of all male athletes.

6. What is the difference in average weight of male and female athlete?

7. How many countries are participating?

8. How many athletes have name as Johansson?

9. What is the number of athletes with height greater than 190cm?

10. How many female athletes have weight greater than 60Kg.