## Worksheet#4

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- 1. The table below shows the data about shoe size and height. Create a data frame..
- library(dplyr) library(readr) library(data.table)
- a. Describe the data.

```
##
      Shoesize Height Gender
## 1
            6.5
                  66.0
                             F
## 2
            9.0
                  68.0
                             F
## 3
                             F
            8.5
                  64.5
## 4
            8.5
                  65.0
                             F
## 5
           10.5
                  70.0
                             М
## 6
            7.0
                  64.0
                             F
## 7
            9.5
                  70.0
                             М
           9.0
                  71.0
## 8
                             F
## 9
           13.0
                  72.0
                             Μ
## 10
            7.5
                  64.0
                             Μ
           10.5
## 11
                  74.5
                             М
## 12
           8.5
                  67.0
                             F
## 13
           12.0
                  71.0
                             М
## 14
           10.5
                  71.0
                             Μ
## 15
           13.0
                  77.0
                             М
           11.5
                  72.0
## 16
                             М
## 17
            8.5
                  59.0
                             F
                             F
## 18
            5.0
                  62.0
## 19
           10.0
                  72.0
                             Μ
## 20
            6.5
                             F
                  66.0
```

```
## 21
           7.5
                 64.0
## 22
                 67.0
           8.5
                            Μ
## 23
          10.5
                 73.0
                            М
## 24
           8.5
                 69.0
                            F
## 25
          10.5
                 72.0
                            Μ
## 26
                 70.0
          11.0
                            Μ
## 27
                 69.0
           9.0
                            Μ
                 70.0
## 28
          13.0
                            Μ
```

Answer: The output will show a data base on what we put on each rows within the dataframe b. Find the mean of shoe size and height of the respondents. Copy the codes and results.

• Male

summary(df)

•

c. Is there a relationship between shoe size and height? Why?

Yes, The Higher the value of height, the greater value of the Shoesize.

2. Construct character vector months to a factor with factor() and assign the result to factor\_months\_vector. Print out factor\_months\_vector and assert that R prints out the factor levels below the actual values.

3. Then check the summary() of the  $Months\_Vector\_vector$  and  $Factor\_Month\_Vector\_vector$ . Interpret the results of both vectors. Are they both equally useful in this case?

```
summary(Months)
summary(factor_Months)
```

Answer: For me Yes, as for the months\_vector it shows the number of months

4. Create a vector and factor for the table below.

```
factorData <- data.frame(
  Direction = c("East","West","North"),
  Frequency = c(1,4,3)
)
factorData
newOrderData <- factor(factorData,levels = c("East","West","North"))
print(newOrderData)</pre>
```

- 5. Enter the data below in Excel with file name = import\_march.csv
- a. Import the excel file into the Environment Pane using read.table() function.

```
library(readxl)
import_march <- read_excel("Worksheet#4/import_march.xlsx")
View(import_march)</pre>
```

b. View the dataset. Write the code and its result.

Students	'Strategy 1' 'S	Strategy 2''	Strategy 3'
<chr></chr>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>
1 Male	8	10	8
2 NA	4	8	6
3 NA	0	6	4
4 Female	14	4	15
5 NA	10	2	12
6 NA	6	0	9