RWorksheet_Cartoja#4

Jhona Mae Cartoja

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#1. The table below shows the data about shoe size and height. Create a data frame.. #a. Describe the data.

```
##
      Shoesize Height Gender
## 1
            6.5
                   66.0
                              F
## 2
            9.0
                   68.0
                              F
                              F
## 3
            8.5
                   64.5
            8.5
                   65.0
           10.5
                  70.0
## 5
                              М
## 6
            7.0
                   64.0
                              F
## 7
            9.5
                  70.0
                             Μ
## 8
            9.0
                  71.0
                             F
## 9
           13.0
                  72.0
                             М
## 10
            7.5
                   64.0
                             М
## 11
           10.5
                  74.5
                             Μ
## 12
            8.5
                   67.0
                             F
           12.0
## 13
                  71.0
                             М
## 14
           10.5
                  71.0
                             М
## 15
           13.0
                  77.0
                             Μ
## 16
           11.5
                  72.0
                              М
## 17
            8.5
                   59.0
## 18
            5.0
                   62.0
                              F
## 19
           10.0
                  72.0
                             Μ
            6.5
                              F
## 20
                   66.0
## 21
            7.5
                   64.0
                              М
```

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

#b. Find the mean of shoe size and height of the respondents. Copy the codes and results.

summary(dataframe)

```
Shoesize
                           Height
##
                                           Gender
##
    Min.
           : 5.000
                              :59.00
                                        Length:28
                      Min.
##
    1st Qu.: 8.500
                      1st Qu.:65.75
                                        Class : character
##
    Median : 9.000
                      Median :69.50
                                              :character
                              :68.57
##
    Mean
            : 9.411
                      Mean
##
    3rd Qu.:10.500
                      3rd Qu.:71.25
                              :77.00
##
    Max.
            :13.000
                      Max.
```

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

-Yes, there is. Sometimes, your shoe size varies on your height. The higher the height, the greater the shoe size.

#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. Consider data consisting of the names of months:

```
##
    [1] March
                                                            September October
                  April
                             January
                                       November
                                                  January
    [8] September November
                             August
                                       January
                                                  November
                                                            November
                                                                      February
                             July
## [15] May
                  August
                                       December
                                                 August
                                                            August
                                                                       September
## [22] November February
                             April
## 11 Levels: April August December February January July March May ... September
```

#3. Then check the summary() of the months_vector and factor_months_vector.Interpret the results of both vectors. Are they both equally useful in this case?

```
summary(months)
```

```
## Length Class Mode
## 24 character character
summary(factor_months)
```

```
February
##
        April
                  August
                           December
                                                                  July
                                                                            March
                                                                                          May
                                                   January
##
                        4
            2
                                              2
                                                          3
                                                                     1
                                                                                 1
                                                                                            1
                 October September
    November
```

```
##
            5
                       1
                                   3
#4. Create a vector and factor for the table below.
factor_data \leftarrow c(1,4,3)
new_order_data <-factor(factor_data,levels=c("East","West","North"))</pre>
print(new_order_data)
## [1] <NA> <NA> <NA>
## Levels: East West North
#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.
data_tab <- read.table("/cloud/project/import_march.csv", header=TRUE, sep = ",")</pre>
data_tab
##
     Students Strategy1 Strategy2 Strategy3
## 1
          Male
                        8
                                   10
## 2
                         4
                                               6
                                    8
## 3
                        0
                                    6
                                               4
## 4
       Female
                       14
                                    4
                                              15
## 5
                       10
                                    2
                                              12
                                               9
## 6
                         6
                                    0
#b. View the dataset. Write the code and its result.
data_tab <- read.csv("/cloud/project/import_march.csv")</pre>
data_tab
##
     Students Strategy1 Strategy2 Strategy3
## 1
          Male
                        8
                                               8
                                   10
                                               6
## 2
                         4
                                    8
## 3
                        0
                                    6
                                               4
## 4
       Female
                       14
                                    4
                                              15
                       10
                                    2
                                              12
## 5
```

6

6

0

9