RWorksheet_Tiad#4a

James Cedrick Tiad

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```
#1.
  #a. The following table shows Shoe sizes, Height and gender data.
  #b.
  Shoe_size <- c(6.5,9.0,8.5,8.5,10.5,7.0,9.5,9.0,13.0,7.5,10.5,8.5,12.0,10.5,13.0,11.5,8.5,5.0,10.0,6.5
)
  Height <- c(66.0,68.0,64.5,65.0,70.0,64.0,70.0,71.0,72.0,64.0,74.5,67.0,71.0,71.0,77.0,72.0,59.0,62.0
  Gender <- c("F","F","F","F","M","F","F","F","M","F","M","F","M","M","M","M","F","F","M","F","F","M","M
  Shoe_Table <- data.frame(Shoe_size, Height, Gender)
  Shoe_Table
```

```
##    Shoe_size Height Gender
## 1        6.5   66.0      F
## 2        9.0   68.0      F
## 3        8.5   64.5      F
## 4        8.5   65.0      F
## 5       10.5   70.0      M
## 6        7.0   64.0      F
## 7        9.5   70.0      F
## 8        9.0   71.0      F
## 9       13.0   72.0      M
## 10       7.5   64.0      F
## 11      10.5   74.5      M
## 12       8.5   67.0      F
## 13      12.0   71.0      M
## 14      10.5   71.0      M
## 15      13.0   77.0      M
## 16      11.5   72.0      M
## 17       8.5   59.0      F
## 18       5.0   62.0      F
## 19      10.0   72.0      M
## 20       6.5   66.0      F
## 21       7.5   64.0      F
## 22       8.5   67.0      M
## 23      10.5   73.0      M
## 24       8.5   69.0      F
## 25      10.5   72.0      M
## 26      11.0   70.0      M
## 27       9.0   69.0      M
## 28      13.0   70.0      M
```

```r
Male_Shoesizes <- subset(Shoe_Table, Gender == "M", select = c(Shoe_size, Height, Gender))
Male_Shoesizes
```

```
##    Shoe_size Height Gender
## 5       10.5   70.0      M
## 9       13.0   72.0      M
## 11      10.5   74.5      M
## 13      12.0   71.0      M
## 14      10.5   71.0      M
## 15      13.0   77.0      M
## 16      11.5   72.0      M
## 19      10.0   72.0      M
## 22       8.5   67.0      M
## 23      10.5   73.0      M
## 25      10.5   72.0      M
## 26      11.0   70.0      M
## 27       9.0   69.0      M
## 28      13.0   70.0      M
```

```r
Female_Shoesizes <- subset(Shoe_Table, Gender == "F", select = c(Shoe_size, Height, Gender))
Female_Shoesizes
```

```
##    Shoe_size Height Gender
## 1        6.5   66.0      F
## 2        9.0   68.0      F
## 3        8.5   64.5      F
## 4        8.5   65.0      F
## 6        7.0   64.0      F
## 7        9.5   70.0      F
## 8        9.0   71.0      F
## 10       7.5   64.0      F
## 12       8.5   67.0      F
## 17       8.5   59.0      F
## 18       5.0   62.0      F
## 20       6.5   66.0      F
## 21       7.5   64.0      F
## 24       8.5   69.0      F
```

```r
#c.mean of Shoes sizes
mean_sizes <- mean(Shoe_size)
mean_sizes
```

```
## [1] 9.410714
```

```r
#mean of Height
mean_height <- mean(Height)
mean_height
```

```
## [1] 68.57143
```

```
  #d. Yes I think there is a relationship between Shoe sizes and height. Because
```

```
#2.
  months <- c("March", "April", "January", "November", "January", "September", "October", "September",

  factor_months <- factor(months)
  factor_months
```

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

```
  assign("factor_months_vector", factor_months)
  factor_months_vector
```

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

```
#3.
  summary(months)
```

```
##    Length     Class      Mode
##        24 character character
```

```
  summary(factor_months_vector)
```

```
##     April    August  December  February   January      July     March       May
##         2         4         1         2         3         1         1         1
##  November   October September
##         5         1         3
```

```
#4.
  Direction <- c("East", "West", "North")
  frequency <- c(1,4,3)
  difre_df <- data.frame(Direction,frequency)
  difre_df
```

```
##   Direction frequency
## 1      East         1
## 2      West         4
## 3     North         3
```

```
  new_order_data <- factor(Direction, levels = c("East", "West", "North"))
  new_order_data
```

```
## [1] East  West  North
## Levels: East West North
```

```r
#5.
  #a.
  excel_table <- read.table("import_march.csv", header = TRUE, sep = ",", stringsAsFactors = FALSE)
  excel_table
```

```
##   Students Strategy.1 Strategy.2 Strategy.3
## 1     Male          8         10          8
## 2                   4          8          6
## 3                   0          6          4
## 4   Female         14          4         15
## 5                  10          2         12
## 6                   6          0          9
```