RWorksheet_asenjo#4a

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2024-10-14

```
1.
```

```
ShoeSize Height Gender
##
## 1
            6.5
                   66.0
## 2
            9.0
                   68.0
                              F
## 3
            8.5
                   64.5
                              F
## 4
            8.5
                   65.0
                              F
## 5
           10.5
                   70.0
                              Μ
## 6
            7.0
                   64.0
                              F
## 7
            9.5
                   70.0
## 8
            9.0
                   71.0
                              F
## 9
           13.0
                   72.0
                              М
            7.5
                   64.0
## 10
## 11
           10.5
                   74.5
                              М
## 12
            8.5
                   67.0
                              F
## 13
           12.0
                   71.0
## 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
                              М
## 20
            6.5
                   66.0
                              F
## 21
            7.5
                   64.0
                              F
## 22
            8.5
                   67.0
                              М
## 23
           10.5
                   73.0
                              М
## 24
            8.5
                   69.0
## 25
           10.5
                   72.0
                              М
## 26
           11.0
                   70.0
                              М
## 27
            9.0
                   69.0
                              Μ
## 28
           13.0
                   70.0
```

b.

a. The data shows that it has three columns namely, shoesize, height and, gender with 28 rows.

```
s <- subset(HouseHoldData, Gender == "M" & ShoeSize&Height)
s
##
      ShoeSize Height Gender
## 5
          10.5
                  70.0
                             Μ
## 9
          13.0
                  72.0
                             Μ
## 11
          10.5
                  74.5
                             М
## 13
          12.0
                  71.0
                             Μ
          10.5
## 14
                  71.0
                             Μ
## 15
          13.0
                  77.0
                             Μ
          11.5
                  72.0
## 16
                             М
## 19
          10.0
                  72.0
                             М
## 22
           8.5
                  67.0
                             Μ
## 23
          10.5
                  73.0
                             М
## 25
          10.5
                  72.0
                             Μ
## 26
          11.0
                  70.0
                             Μ
## 27
           9.0
                  69.0
                             Μ
                  70.0
          13.0
## 28
                             Μ
s2 <- subset(HouseHoldData, Gender == "F" & ShoeSize&Height)
s2
##
      ShoeSize 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
           8.5
## 12
                  67.0
                             F
## 17
           8.5
                  59.0
                             F
           5.0
                  62.0
                             F
## 18
## 20
           6.5
                  66.0
                             F
                             F
## 21
           7.5
                  64.0
## 24
           8.5
                  69.0
                             F
  c.
sm <- mean(HouseHoldData$ShoeSize)</pre>
## [1] 9.410714
hm <- mean(HouseHoldData$Height)</pre>
hm
## [1] 68.57143
  d. No, because there are some respondents that is taller but has smaller shoe size that others who are
     shorter.
  2.
months_vector <- c("March", "April", "January", "November", "January", "September", "October", "Septemb</pre>
factor_months_vector <- factor(months_vector)</pre>
```

```
factor_months_vector
## [1] March
                             January
                                       November
                                                  January
                                                             September October
                  April
## [8] September November
                             August
                                                  November
                                                            November February
                                        January
## [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_vector)
      Length
                             Mode
##
                 Class
##
          24 character character
summary(factor months vector)
       April
                August December February
                                               January
                                                                      March
##
                                                             July
                                                                                   May
##
           2
                      4
                                1
                                           2
                                                     3
                                                                1
                                                                          1
                                                                                     1
## November
               October September
##
           5
                      1
  4.
direction <- c("East", "West", "North")</pre>
frequency \leftarrow c(1, 4, 3)
factor_data <- direction</pre>
new_order_data <- factor(factor_data, levels = c("East", "West", "North"))</pre>
new_order_data
## [1] East West North
## Levels: East West North
  5.
     a.
import_march <- read.table("import_march.csv", header = TRUE, sep =",")</pre>
  b.
import_march
##
     Students Strategy1 Strategy2 Strategy3
## 1
                       8
         Male
                                10
## 2
                                            6
                       4
                                 8
## 3
                       0
                                 6
                                           4
## 4
      Female
                      14
                                 4
                                           15
## 5
                      10
                                           12
                                 2
## 6
                       6
                                 0
                                           9
```