RWorksheet 3b in R

Jeodalyn Edulag BSIT 2-A

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#1. Create a data frame using the table below.

| a. Write the codes.

```
##
      rspndts sex f_occup p_home s_sch t_houses
## 1
                                  5
                                         6
             1
                 2
                          1
                                                   1
## 2
             2
                 2
                          3
                                  7
                                         4
                                                   2
## 3
             3
                1
                          3
                                  3
                                         4
                                                   3
## 4
                 2
                          3
                                  8
                                         1
                                                   1
             5
                 2
                                  5
                                         2
## 5
                          1
                                                   1
## 6
             6
                 2
                          2
                                         1
                                                   3
             7
                 2
                                         5
                                  6
                                                   3
## 7
                          3
## 8
             8
                 2
                          1
                                  7
                                         3
                                                   1
## 9
             9
                 2
                                  8
                                         1
                                                   2
## 10
                 2
                                         2
                                                   3
            10
                          1
                                  7
                                         3
                                                   2
## 11
                 1
                          3
            11
            12
                 2
                          2
                                  5
                                         2
                                                   3
## 12
                                         5
                                                   2
## 13
            13
                 2
                          1
                                  4
## 14
            14
                 2
                          3
                                  7
                                         5
                                                   2
                 2
                                  8
                                         2
                                                   3
## 15
            15
                          3
## 16
                 2
                          1
                                  8
                                         1
                                                   3
            16
                                         2
## 17
            17
                 2
                          3
                                  3
                                                   3
## 18
            18
                                         5
                                                   3
                          1
                                 11
```

#b. Describe the data. Get the structure or the summary of the data

```
summary(df)
```

```
##
       rspndts
                                        f_occup
                                                         p_home
                          sex
                                                                         s_sch
##
    Min.
           : 1.00
                             :1.00
                                     Min.
                                            :1.00
                                                     Min.
                                                            : 3.0
                                                                     Min.
                                                                            :1.00
                     Min.
    1st Qu.: 5.75
##
                     1st Qu.:2.00
                                     1st Qu.:1.00
                                                     1st Qu.: 5.0
                                                                     1st Qu.:2.00
    Median :10.50
                     Median:2.00
                                     Median:2.00
                                                     Median: 7.0
                                                                     Median:2.50
##
##
   Mean
           :10.50
                     Mean
                             :1.85
                                     Mean
                                            :1.95
                                                     Mean
                                                             : 6.4
                                                                     Mean
                                                                            :2.95
##
    3rd Qu.:15.25
                     3rd Qu.:2.00
                                     3rd Qu.:3.00
                                                     3rd Qu.: 8.0
                                                                     3rd Qu.:4.25
##
    Max.
           :20.00
                     Max.
                            :2.00
                                     Max.
                                            :3.00
                                                     Max.
                                                            :11.0
                                                                     Max.
                                                                            :6.00
##
       t_houses
##
   Min.
           :1.0
##
   1st Qu.:2.0
##
   Median:2.5
##
   Mean
           :2.3
##
    3rd Qu.:3.0
           :3.0
##
   Max.
```

#c. Is the mean number of siblings attending is 5?

```
##Answer: No, the mean number of siblings
##attending school is 2.95
```

#d. Extract the 1st two rows and then all the columns using the subsetting functions. Write the codes and its output.

```
ext <- subset(df[1:2, 1:6, drop =FALSE])
ext</pre>
```

#e. Extract 3rd and 5th row with 2nd and 4th column. #Write the codes and its result.

```
ext1 <- subset(df[c(3,5), c(2,4)])
ext1</pre>
```

```
## sex p_home
## 3 1 3
## 5 2 5
```

#f. Select the variable types of houses then store the vector #that results as types_houses. Write the codes.

```
Typesofhouses <- df$t_houses
Typesofhouses
```

```
## [1] 1 2 3 1 1 3 3 1 2 3 2 3 2 2 3 3 3 3 3 2
```

#g. Select only all Males respondent that their father #occupation was farmer. Write the codes and its output.

```
frmr <- subset(df[c(1:20), c(2,3)])
frmr

## sex f_occup</pre>
```

```
## 1
         2
                  1
## 2
         2
                  3
## 3
         1
                  3
         2
                  3
## 4
## 5
         2
                  1
## 6
         2
                  2
## 7
         2
                  3
         2
## 8
                  1
## 9
         2
                  1
## 10
         2
                  1
## 11
                  3
         1
         2
                  2
## 12
         2
## 13
                  1
## 14
         2
                  3
         2
## 15
                  3
## 16
         2
                  1
         2
                  3
## 17
##
   18
         2
                  1
## 19
                  2
         1
## 20
         2
                  1
```

```
male <- frmr[df$f_occup == '1',]
male</pre>
```

```
##
       sex f_occup
## 1
         2
                  1
## 5
         2
## 8
         2
                  1
         2
## 9
                  1
## 10
         2
                  1
## 13
         2
                  1
## 16
         2
                  1
## 18
         2
                  1
## 20
         2
                  1
```

#h. Select only all females respondent that have greater # #than or equal to 5 number of siblings attending school. #Write the codes and its outputs.

```
s_fml <- subset(df[c(1:20), c(2,5)])
s_fml</pre>
```

```
## sex s_sch
## 1 2 6
```

```
2
## 2
                4
                4
## 3
         1
## 4
         2
                1
## 5
         2
                2
         2
## 6
                1
## 7
         2
                5
## 8
         2
                3
## 9
         2
                1
## 10
         2
                2
## 11
                3
         1
## 12
         2
                2
         2
                5
## 13
   14
##
         2
                5
         2
                2
## 15
## 16
         2
                1
## 17
         2
                2
## 18
         2
                5
                3
## 19
         1
## 20
         2
                2
fmale \leftarrow s_fml[df$s_sch >= '5',]
fmale
##
       sex s_sch
## 1
         2
## 7
         2
                5
                5
## 13
         2
         2
                5
## 14
## 18
                5
#2. Write a R program to create an empty data frame. #Using the following codes:
df <- data.frame (Ints = integer(), Doubles=double(), Characters = character(), Logicals=logical(),
stringsAsFactors = FALSE)
print ("Structures of the empty dataframe:") print(str(df))
#a. Describe the results.
##The data frame has zero columns, 5 rows and zero level.
```

#3. Interpret the graph.

 $\textbf{T_SentimentTwts} \begin{tabular}{ll} \textbf{T_SentimentTwts} & \textbf{--print ("My interpretation of the graph that shows Donald Trump's daily sentiments in the sentiment of the graph that shows Donald Trump's daily sentiments in the graph that shows Donald Trump's daily sentiments in the graph that shows Donald Trump's daily sentiments in the graph that shows Donald Trump's daily sentiments in the graph that shows Donald Trump's daily sentiments in the graph that shows Donald Trump's daily sentiments in the graph that shows Donald Trump's daily sentiments in the graph that shows Donald Trump's daily sentiments in the graph that shows Donald Trump's daily sentiments in the graph that shows Donald Trump's daily sentiments in the graph that shows Donald Trump's daily sentiments in the graph that t$

[1] "My interpretation of the graph that shows Donald Trump's daily sentiments in his tweets is that

T_SentimentTwts

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