RWorksheet_CAHUYA#3B

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- 1.Create a data frame using the table below.
 - a. Write the codes.

##		Respondents	Sex	Fathers_Occupation	Persons_Home	Siblings_School	Houses
##	1	1	2	1	5	6	1
##	2	2	2	3	7	4	2
##	3	3	1	3	3	4	3
##	4	4	2	3	8	1	1
##	5	5	2	1	5	2	1
##	6	6	2	2	9	1	3
##	7	7	2	3	6	5	3
##	8	8	2	1	7	3	1
##	9	9	2	1	8	1	2
##	10	10	2	1	4	2	3
##	11	11	1	3	7	3	2
##	12	12	2	2	5	2	3
##	13	13	2	1	4	5	2
##	14	14	2	3	7	5	2
##	15	15	2	3	8	2	3
##	16	16	2	1	8	1	3
##	17	17	2	3	3	2	3
##	18	18	2	1	11	5	3
##	19	19	1	2	7	3	3
##	20	20	2	1	6	2	2

```
##
       Respondents Sex Fathers Occupation Persons at Home Siblings at school
## 1
                      2
                                                              5
                  1
                                            1
                                                              7
## 2
                      2
                                            3
                  2
                                                                                    4
## 3
                  3
                      1
                                            3
                                                              3
                                                                                    4
                      2
                                            3
## 4
                  4
                                                              8
                                                                                    1
## 5
                  5
                      2
                                            1
                                                              5
                                                                                    2
## 6
                  6
                      2
                                            2
                                                              9
                                                                                    1
                  7
## 7
                      2
                                            3
                                                                                    5
                                                              6
## 8
                  8
                      2
                                            1
                                                              7
                                                                                    3
## 9
                  9
                      2
                                                              8
                                            1
                                                                                    1
## 10
                 10
                      2
                                            1
                                                              4
                                                                                    2
                                            3
                                                              7
## 11
                 11
                      1
                                                                                    3
## 12
                 12
                      2
                                            2
                                                              5
                                                                                    2
## 13
                 13
                      2
                                            1
                                                              4
                                                                                    5
## 14
                 14
                      2
                                            3
                                                              7
                                                                                    5
                      2
## 15
                 15
                                            3
                                                              8
                                                                                    2
## 16
                 16
                      2
                                            1
                                                              8
                                                                                    1
                      2
                                            3
                                                              3
                                                                                    2
## 17
                 17
## 18
                 18
                      2
                                            1
                                                             11
                                                                                    5
                                            2
                                                              7
                                                                                    3
## 19
                 19
                      1
## 20
                 20
                      2
                                            1
                                                              6
                                                                                    2
##
       Types of houses
## 1
## 2
                      2
                      3
## 3
## 4
                      1
## 5
                      1
## 6
                      3
                      3
## 7
## 8
                      1
                      2
## 9
## 10
                      3
                      2
## 11
                      3
## 12
                      2
## 13
                      2
## 14
## 15
                      3
## 16
                      3
                      3
## 17
                      3
## 18
                      3
## 19
                      2
## 20
```

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

#Sex, Respondents, Persons at Home, Types of Houses, Fathers Occupation, and Siblings in School display summary(Table1)

```
## Respondents Sex Fathers Occupation Persons at Home ## Min. : 1.00 Min. :1.00 Min. : 3.0
```

```
1st Qu.: 5.75
                    1st Qu.:2.00
                                   1st Qu.:1.00
                                                       1st Qu.: 5.0
##
   Median :10.50
                    Median:2.00
                                   Median:2.00
                                                       Median: 7.0
           :10.50
   Mean
                    Mean
                           :1.85
                                   Mean
                                           :1.95
                                                       Mean
                                                              : 6.4
##
   3rd Qu.:15.25
                    3rd Qu.:2.00
                                    3rd Qu.:3.00
                                                       3rd Qu.: 8.0
                           :2.00
##
   Max.
           :20.00
                    Max.
                                   Max.
                                           :3.00
                                                       Max.
                                                              :11.0
   Siblings at school Types of houses
##
           :1.00
##
   Min.
                       Min.
                              :1.0
                       1st Qu.:2.0
##
   1st Qu.:2.00
## Median :2.50
                       Median:2.5
           :2.95
##
  Mean
                       Mean
                              :2.3
## 3rd Qu.:4.25
                       3rd Qu.:3.0
## Max.
           :6.00
                              :3.0
                       Max.
```

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

```
# No it is not. 2.95 is the Mean of the number of siblings attending.
```

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

```
subset_1 <- subset(Table1[1:2,])
subset_1</pre>
```

```
Respondents Sex Fathers Occupation Persons at Home Siblings at school
##
## 1
                1
                    2
                                                                              6
                2
                                         3
                                                          7
## 2
                    2
                                                                              4
     Types of houses
##
## 1
                    1
## 2
                    2
```

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

```
subset_2 <- subset(Table1[c( 3, 5 ),c(2,4)])
subset_2</pre>
```

```
## Sex Persons at 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.

```
types_houses <- c(Table1$`Types of houses`)
types_houses</pre>
```

```
## [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.

```
Respondents Sex Fathers_Occupation Persons_Home Siblings_School Houses
##
## 1
                                                          5
                  1
                                                                            6
                                                                                    1
                      2
                                                          7
                                                                                    2
## 2
                  2
                                           3
                                                                            4
                                                                                    3
## 3
                 3
                      1
                                           3
                                                          3
                                                                            4
## 4
                 4
                      2
                                           3
                                                          8
                                                                            1
                                                                                    1
## 5
                 5
                      2
                                           1
                                                          5
                                                                            2
                                                                                    1
                 6
                      2
                                           2
                                                          9
                                                                                    3
## 6
                                                                            1
## 7
                 7
                      2
                                           3
                                                          6
                                                                            5
                                                                                    3
                                                          7
                                                                            3
## 8
                 8
                      2
                                           1
                                                                                    1
## 9
                 9
                      2
                                           1
                                                          8
                                                                            1
                                                                                    2
                                                                            2
                                                                                    3
## 10
                10
                      2
                                           1
                                                          4
                                           3
                                                          7
                                                                            3
                                                                                    2
## 11
                11
                      1
                                                                            2
## 12
                                           2
                                                                                    3
                12
                      2
                                                          5
## 13
                13
                      2
                                           1
                                                          4
                                                                            5
                                                                                    2
                                                          7
                                                                            5
                                                                                    2
## 14
                14
                      2
                                           3
## 15
                15
                      2
                                           3
                                                          8
                                                                            2
                                                                                    3
                                                                                    3
## 16
                16
                      2
                                           1
                                                          8
                                                                            1
## 17
                      2
                                                                            2
                                                                                    3
                17
                                           3
                                                          3
## 18
                18
                      2
                                           1
                                                         11
                                                                            5
                                                                                    3
## 19
                19
                                           2
                                                          7
                                                                            3
                                                                                    3
                      1
## 20
                20
                                                          6
                                                                                    2
```

```
Male_Farm <- subset(Table2, Sex == '1' & Fathers_Occupation == '1')
Male_Farm_Names <- Male_Farm[c(2,3)]
Male_Farm_Names</pre>
```

```
## [1] Sex Fathers_Occupation
## <0 rows> (or 0-length row.names)
```

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

```
Male_Farm2 <- subset(Table2,Sex == '2' & Siblings_School >= '5')
Male_Farm_Names2 <- Male_Farm2[c(2,5)]
Male_Farm_Names2</pre>
```

```
## Sex Siblings_School
## 1 2 6
## 7 2 5
## 13 2 5
## 14 2 5
## 18 2 5
```

2. Write a R program to create an empty data frame. Using the following codes:

[1] "Structure of the empty dataframe:"

```
print(str(df))
```

```
## 'data.frame': 0 obs. of 5 variables:
## $ Ints : int
## $ Doubles : num
## $ Characters: chr
## $ Logicals : logi
## $ Factors : Factor w/ 0 levels:
## NULL
```

a. Describe the results.

```
# The output shows the internal structure of the 'df' data frame.
# It indicates that the data frame's structure is null or empty.
```

3. Interpret the graph.

```
# The chart illustrates that Donald Trump has far more negative tweet sentiments
# than positive tweet sentiments on a daily basis and there are also significantly
# less neutral sentiments compared to positive and negative tweets.
```