Worksheet-3b in R

Instructions:

- Use RStudio or the RStudio Cloud accomplish this worksheet.

- Save the R script as *RWorksheet_lastname#3b.R*.
- On your own *GitHub repository*, push the R script, the Rmd file, as well as this pdf worksheet to the repo you have created before.
- Do not forget to comment your Git repo on our VLE
- Accomplish this worksheet by answering the questions being asked and writing the code manually.

1. Create a data frame using the table below.

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

Legend:
Male-1
Female-2

Farmer-1
Driver-2
Others-3

Wood-1
Semi-Concrete-2
Concrete-3

a. Write the codes.

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

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

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

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

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

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

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.

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(),
        Factors=factor(),
        stringsAsFactors=FALSE)

print("Structure of the empty dataframe:")
print(str(df))
```
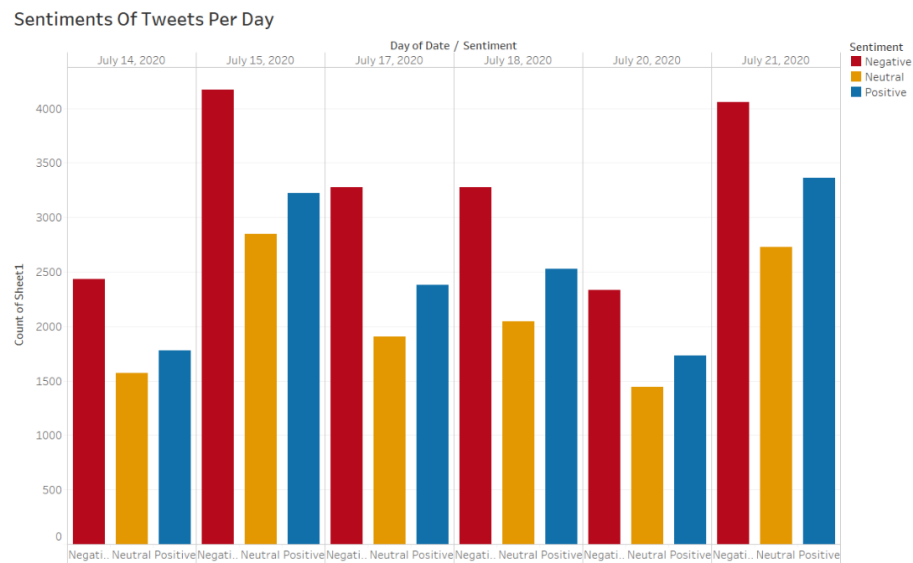
a. Describe the results.

3. Interpret the graph.

Figure 1: Sentiments of Tweets per day - Donald Trump