RWorksheet_lastname#3b

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

```
info <- data.frame(
    Respondents = c(1:20),
    Sex = c(2,2,1,2,2,2,2,2,2,2,1,2,2,2,2,2,2,1,2),
    Fathers_Occupation = c(1,3,3,3,1,2,3,1,1,1,3,2,1,3,3,1,3,1,2,1),
    Persons_at_Home = c(5,7,3,8,5,9,6,7,8,4,7,5,4,7,8,8,3,11,7,6),
    Siblings_at_School = c(6,4,4,1,2,1,5,3,1,2,3,2,5,5,2,1,2,5,3,2),
    Types_of_Houses = c(1,2,3,1,1,3,3,1,2,3,2,3,2,2,3,3,3,3,3,2))
info</pre>
```

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

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

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

summary(info)

```
Sex
                                    Fathers_Occupation Persons_at_Home
##
     Respondents
          : 1.00
                            :1.00
                                                              : 3.0
##
    Min.
                    Min.
                                    Min.
                                           :1.00
                                                        Min.
##
    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
##
    Mean
           :10.50
                    Mean
                            :1.85
                                    Mean
                                            :1.95
                                                        Mean
                                                                : 6.4
    3rd Qu.:15.25
                    3rd Qu.:2.00
                                                        3rd Qu.: 8.0
##
                                    3rd Qu.:3.00
##
   Max.
           :20.00
                    Max.
                            :2.00
                                    Max.
                                            :3.00
                                                        Max.
                                                                :11.0
##
   Siblings_at_School Types_of_Houses
##
   Min.
           :1.00
                        Min.
                               :1.0
##
    1st Qu.:2.00
                        1st Qu.:2.0
##
  Median :2.50
                        Median:2.5
   Mean
           :2.95
                        Mean
                               :2.3
##
    3rd Qu.:4.25
                        3rd Qu.:3.0
    Max.
           :6.00
                        Max.
                               :3.0
```

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

```
Siblings_at_School = c(6,4,4,1,2,1,5,3,1,2,3,2,5,5,2,1,2,5,3,2)
mean(Siblings_at_School)
```

```
## [1] 2.95
```

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

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

```
##
     Respondents Sex Fathers_Occupation Persons_at_Home Siblings_at_School
## 1
                1
                    2
                                         1
                                                          5
                                                                               6
                                                          7
## 2
                2
                    2
                                         3
                                                                               4
##
     Types_of_Houses
## 1
                    2
## 2
```

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

```
thirdandfifth <- subset(info [3:5, 2:4, drop = FALSE])
thirdandfifth</pre>
```

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

```
types_houses <- info [c(6)]
types_houses</pre>
```

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

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

```
males <- subset(info[c(3,11),c(2,3)])
males</pre>
```

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.

```
zegzog <- subset(info[c(1:20), c(2,5)])
girls <- zegzog[info$Siblings_at_School >= 5,]
girls
```

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 result shows that the data frame consists of 5 variables and it is empty.
- 3. Interpret the graph.

#the graph shows the negative, positie, neutral sentiments of the #twitter users per day from july 14 to july 21 2020.