

RWorksheet_Mirabuena#3b

Jessa Mae Mirabuena BSIT 2A

2022-11-14

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

a. Write the codes.

```
Respondents <- c(seq(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(1,2,3,1,1,3,3,1,2,3,2,3,2,2,3,3,3,3,2)
```

```
frame1 <- data.frame(Respondents,Sex,Fathers_Occupation,Persons_at_home,Siblings_at_school,Types_of_houses)
frame1
```

##	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	2				
## 3	3				
## 4	1				
## 5	1				
## 6	3				
## 7	3				
## 8	1				
## 9	2				

```
## 10      3
## 11      2
## 12      3
## 13      2
## 14      2
## 15      3
## 16      3
## 17      3
## 18      3
## 19      3
## 20      2
```

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

```
summary(frame1)
```

```
## Respondents      Sex      Fathers_Occupation Persons_at_home
## Min.   : 1.00   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
## Mean   :10.50   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
## 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?

Answer: No

#Mean is 2.95

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

```
set1<- subset(frame1[1:2, 1:6, drop = FALSE])
set1
```

```
## Respondents Sex Fathers_Occupation Persons_at_home Siblings_at_school
## 1          1  2              1              5              6
## 2          2  2              3              7              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.*

```
set2 <- subset(frame1[c(3,5),c(2,4)])
set2
```

```
## 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.*

```
set3<- subset(frame1[c(1:20), c(2,6)])
```

```
type_houses <- set3
```

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

```
set4<- subset(frame1[c(1:20), c(2,3)])
```

```
male <- set4[frame1$FathersOccupation == '1',]  
male
```

```
## [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*

```
set5 <- subset(frame1[c(1:20), c(2,5)])  
female <- set5[frame1$Siblingsatschool == '1',]
```

#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:")
```

```
## [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
```

#The result indicates an empty data frame that has a five variables however it doesn't have value

#3. Interpret the graph.

#for the month of July year 2020 the negative sentiments has a higher tweets