Worksheet 3b

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/hfill/break

##		Respondents	Sex	${\tt Fathers_Occupation}$	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	2	1	11	5
##		19	1	2	7	3
##		20	2	1	6	2
##	Types_of_Houses			_	· ·	_
##	1	1) P 00 _ 01 _ 110 (1			
##			2			
##			3			
пπ	J		J			

```
## 5
                   1
## 6
                   3
## 7
                   3
## 8
                   1
## 9
                   2
## 10
                   3
## 11
                   2
## 12
                   3
## 13
                   2
## 14
                   2
                   3
## 15
                   3
## 16
                   3
## 17
## 18
                   3
## 19
                   3
## 20
                   2
#b.Describe the data. Get the structure or the summary of the data.
   As shown in the given table, there are 20 respondents, and their given
   data in numerical form that can be translated only using the legend below.
   summary(dframe)
##
   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.: 8.0
                               3rd Qu.:3.00
                                                   Max. :11.0
## Max.
         :20.00 Max. :2.00 Max.
                                       :3.00
## 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, the result of the summary shows that
         the mean of siblings attending is 2.95.
#d. Extract the 1st two rows and then all the columns using the subsetting
# functions. Write the codes and its output.
subsetdata <- subset(dframe[1:2, 1:6])</pre>
subsetdata
    Respondents Sex Fathers_Occupation Persons_at_Home Siblings_at_School
## 1
              1
```

4

```
## 2
                                    3
                                                  7
## Types_of_Houses
## 1
## 2
#e. Extract 3rd and 5th row with 2nd and 4th column. Write the codes and its
\#result.
extractdata \leftarrow subset(dframe[c(3,5),c(2,4)])
extractdata
    Sex Persons_at_Home
## 3
     1
## 5
#f. Select the variable types of houses then store the vector that results as
# types_houses. Write the codes.
variabletypes <- dframe$Persons_at_Home</pre>
type_houses <- variabletypes</pre>
type_houses
## [1] 5 7 3 8 5 9 6 7 8 4 7 5 4 7 8 8 3 11 7 6
#q. Select only all Males respondent that their father occupation was farmer.
#Write the codes and its output.
Maledata <- subset(dframe[c(1:20), c(2,3)])</pre>
Maledata
##
      Sex Fathers_Occupation
## 1
        2
## 2
        2
                           3
## 3
        1
                           3
## 4
        2
                           3
## 5
        2
                           1
## 6
        2
                           2
## 7
        2
                           3
## 8
        2
                           1
## 9
        2
                           1
## 10
        2
                           1
## 11
                           3
        1
## 12
        2
                           2
## 13
        2
                           1
## 14
        2
                           3
## 15
        2
                           3
## 16
        2
                           1
## 17
        2
                           3
## 18
        2
                           1
## 19
                           2
        1
## 20
                           1
```

```
Male <- Maledata[dframe$Fathers_Occupation == '1',]</pre>
Male
      {\tt Sex \ Fathers\_Occupation}
##
## 1
## 5
        2
                             1
## 8
        2
                             1
## 9
        2
                             1
## 10
        2
## 13
        2
                             1
## 16
        2
                             1
        2
## 18
                             1
## 20
#h. Select only all females respondent that have greater than or equal to 5 number
#of siblings attending school. Write the codes and its outputs.
Fmale \leftarrow subset(dframe[c(1:20), c(2,5)])
Fmale
      Sex Siblings_at_School
##
## 1
## 2
                             4
## 3
        1
                             4
## 4
        2
                             1
## 5
        2
                             2
## 6
        2
                             1
## 7
        2
                             5
## 8
        2
                             3
## 9
        2
                             1
## 10
        2
                             2
## 11
        1
                             3
## 12
        2
                             2
## 13
        2
                             5
## 14
        2
                             5
                             2
## 15
        2
## 16
        2
                             1
## 17
        2
                             2
## 18
        2
                             5
## 19
        1
                             3
## 20
        2
                             2
Female <- Fmale[dframe$Siblings_at_School >= '5',]
Female
      {\tt Sex Siblings\_at\_School}
##
## 1
                             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:
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
#3. Interpret the graph.
# As shown in the graph, the sentiment of tweets per day that ascend the
# most is the negative sentiment.
```