## RWorksheet\_Almayo#3B

## Josh Christian Almayo

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## R Markdown

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```
1.
sex <- c(2, 2, 1, 2, 2, 2, 2, 2, 2, 1, 2, 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 \leftarrow 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, 1, 2, 2, 3, 2, 3, 2, 2, 3, 3, 3, 3, 3, 2)
sex
   [1] 2 2 1 2 2 2 2 2 2 2 1 2 2 2 2 2 2 1 2
fathers_occupation
## [1] 1 3 3 3 1 2 3 1 1 1 3 2 1 3 3 1 3 1 2 1
persons_at_home
## [1] 5 7 3 8 5 9 6 7 8 4 7 5 4 7 8 8 3 11 7 6
siblings_at_school
## [1] 6 4 4 1 2 1 5 3 1 2 3 2 5 5 2 1 2 5 3 2
types_of_houses
## [1] 1 2 3 1 1 3 1 2 2 3 2 3 2 2 3 3 3 3 3 2
df <- data.frame( sex, fathers_occupation, persons_at_home, siblings_at_school, types_of_houses)
df
##
      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
                           3
                                           3
                                                               4
                                                                               3
        1
## 4
        2
                           3
                                           8
                                                               1
                                                                               1
## 5
        2
                           1
                                           5
## 6
        2
                           2
                                           9
                                                               1
                                                                               3
## 7
        2
                           3
                                           6
                                                               5
                                                                               1
                                           7
                                                               3
                                                                               2
## 8
        2
                           1
## 9
                                                                               2
        2
                           1
                                           8
                                                               1
                                                               2
## 10
        2
                           1
                                           4
                                                                               3
## 11
                           3
                                           7
                                                               3
                                                                               2
        1
                                                               2
        2
                           2
                                                                               3
## 12
                                           5
```

```
3
                                             7
## 14
                                                                 5
                                                                 2
## 15
        2
                            3
                                             8
                                                                                  3
                                             8
                                                                 1
                                                                                  3
## 16
        2
                            1
## 17
                            3
                                             3
                                                                 2
                                                                                  3
        2
                                                                 5
                                                                                  3
## 18
                            1
                                            11
## 19
                            2
                                             7
                                                                 3
                                                                                  3
        1
## 20
                                             6
                                                                 2
mean_siblings <- mean(df$siblings_at_school)</pre>
mean siblings
## [1] 2.95
\the mean number of siblings is 2.95
first_two_rows <- df[1:2,]</pre>
first_two_rows
##
     sex fathers_occupation persons_at_home siblings_at_school types_of_houses
## 1
## 2
                                                                                 2
extract_datas \leftarrow df[c(3, 5), c(2, 4)]
extract datas
##
     fathers_occupation siblings_at_school
## 3
                       3
                                           4
## 5
                       1
                                           2
types_of_houses <- (df$types_of_houses)</pre>
types_of_houses
## [1] 1 2 3 1 1 3 1 2 2 3 2 3 2 2 3 3 3 3 3 2
male_farmer_respondents <- df[(df$Sex == 1) & (df$Fathers_Occupation == 1), ]
male_farmer_respondents
## [1] sex
                           fathers_occupation persons_at_home
                                                                   siblings_at_school
## [5] types_of_houses
## <0 rows> (or 0-length row.names)
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
## $ Characters: chr
```

```
## $ Logicals : logi
## $ Factors
                : Factor w/ 0 levels:
## NULL
\factors columns has 0 levels, indicating that no unique category in data.
House_hold <- read.csv("/cloud/project/worksheet3/HouseholdData.csv")</pre>
House hold
##
                      Sex Fathers.Occupation Persons.at.Home Siblings.at.School
      Respondents
## 1
                                             1
                                                              7
## 2
                 2 Female
                                             2
                                                                                   3
## 3
                 3 Female
                                             3
                                                              3
                                                                                   0
                 4 Male
                                             3
## 4
                                                              8
                                                                                   5
                   Male
## 5
                 5
                                             1
                                                              6
                                                                                   2
                                             2
## 6
                 6 Female
                                                              4
                                                                                   3
## 7
                 7 Female
                                             2
                                                              4
                                                                                   1
## 8
                 8 Male
                                             3
                                                              2
                                                                                   2
## 9
                 9 Female
                                             1
                                                             11
                                                                                   6
                                             3
## 10
                10
                     Male
                                                              6
                                                                                   2
##
      Types.of.Houses
## 1
                  Wood
## 2
              Congrete
## 3
              Congrete
## 4
                  Wood
## 5
        Semi-Congrete
## 6
        Semi-Congrete
## 7
                  Wood
## 8
        Semi-Congrete
## 9
        Semi-Congrete
## 10
              Congrete
df$sex <- factor(df$sex)</pre>
df$sex <- as.integer(df$sex)</pre>
## [1] 2 2 1 2 2 2 2 2 2 2 1 2 2 2 2 2 2 1 2
df$types_of_houses <- factor(df$types_of_houses)</pre>
df4types_of_houses <- as.integer(df$types_of_houses)</pre>
types_of_houses
## [1] 1 2 3 1 1 3 1 2 2 3 2 3 2 2 3 3 3 3 3 2
df$fathers_occupation <- factor(df$fathers_occupation)</pre>
fathers_occupation
   [1] 1 3 3 3 1 2 3 1 1 1 3 2 1 3 3 1 3 1 2 1
\it shows number of fathers in a certain occupation.
female_driver_respondents <- df[(df$Sex == 2) & (df$Fathers_Occupation == 3),]</pre>
female_driver_respondents
## [1] Ints
                            Doubles
                                                Characters
                                                                     Logicals
## [5] Factors
                            sex
                                                types_of_houses
                                                                     fathers_occupation
## <0 rows> (or 0-length row.names)
```

```
respondents_have_5_or_more_siblings <- df [(df$siblings_at_school >= 5)]
respondents_have_5_or_more_siblings
```

## data frame with 0 columns and 0 rows

4.

\The graph displays the quantity of tweets sent daily between July 14, 2020, and July 20, 2020, a span of seven days. The sentiment of the tweets is classified as either good, neutral, or negative. It shows that the sentiment is not consistent and varies from day to day.