# $RWorksheet\_Lomibao\#3b$

## lomibao

## 2024-10-03

#### 1.A

## 9

##		Respondents		Fathers_Occupation		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	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	20	2	1	6	2
## Types_of_Houses			ıses			
##			1			
##			2			
##			3			
##			1			
##	5		1			
##			3			
##			3			
##	8		1			

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

B.It shows the summary of the data such as mean, median, max, min and etc.

#### summary(dataf)

```
##
     Respondents
                                    Fathers_Occupation Persons_at_Home
                          Sex
##
    Min.
           : 1.00
                            :1.00
                                            :1.00
                                                        Min.
                                                               : 3.0
                    Min.
                                    Min.
                                                        1st Qu.: 5.0
##
    1st Qu.: 5.75
                    1st Qu.:2.00
                                    1st Qu.:1.00
##
   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
           :1.00
                       Min.
                               :1.0
   1st Qu.:2.00
                        1st Qu.:2.0
##
## Median :2.50
                        Median:2.5
## Mean
                        Mean
                               :2.3
          :2.95
  3rd Qu.:4.25
                        3rd Qu.:3.0
## Max.
           :6.00
                        Max.
                               :3.0
C. No its 2.95. You could see it at the data itself. D.
subf <- dataf[1:2 , ]</pre>
subf
     Respondents Sex Fathers_Occupation Persons_at_Home Siblings_at_School
##
## 1
               1
                    2
                                                                            6
                                        1
               2
                                                        7
                                        3
## 2
                                                                            4
##
     Types_of_Houses
## 1
                    1
## 2
                    2
 E.
ot_subf <- dataf[c(3,5) , c(2,4)]
ot_subf
     Sex Persons_at_Home
## 3
       1
## 5
       2
                        5
  F.
types_houses <- dataf[ , "Types_of_Houses"]</pre>
types_houses
```

## [1] 1 2 3 1 1 3 3 1 2 3 2 3 2 2 3 3 3 3 3 2

G.

```
mal_res <- subset(dataf, Sex == 1 & Fathers_Occupation == 1)</pre>
mal_res
                                               Fathers_Occupation Persons_at_Home
## [1] Respondents
                           Sex
## [5] Siblings_at_School Types_of_Houses
## <0 rows> (or 0-length row.names)
 Η.
fem_res <- subset(dataf, Sex ==2 & Siblings_at_School >=5)
fem_res
##
      Respondents Sex Fathers_Occupation Persons_at_Home Siblings_at_School
## 1
## 7
                7
                    2
                                         3
                                                         6
                                                                             5
## 13
               13
                    2
                                        1
                                                         4
                                                                             5
## 14
               14
                    2
                                        3
                                                         7
                                                                             5
## 18
               18
                    2
                                        1
                                                        11
                                                                             5
##
      Types_of_Houses
## 1
## 7
                    3
## 13
                    2
## 14
                    2
## 18
2. It show what is within the dataframe such as objects, variables and data types.
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
HouseholdData <- read.csv("/cloud/project/HouseholdData - Sheet1.csv")</pre>
HouseholdData
##
      Respondents
                      Sex Fathers_Occupation Person_at_home Siblings_at_schools
## 1
                    Male
                                            1
                                                           5
                                                                                 2
                1
                                                           7
## 2
                2 Female
                                            2
                                                                                3
## 3
                3 Female
                                            3
                                                           3
                                                                                0
## 4
                    Male
                                            3
                                                           8
                                                                                 5
```

```
## 5
                     Male
                                                                                  2
                                                             6
## 6
                                             2
                 6 Female
                                                             4
                                                                                  3
## 7
                 7 Female
                                             2
                                                             4
                                                                                  1
## 8
                     Male
                                             3
                                                             2
                                                                                  2
## 9
                 9 Female
                                             1
                                                            11
                                                                                  6
## 10
                10
                     Male
                                             3
                                                             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
  В.
HouseholdData$Sex <- factor(HouseholdData$Sex, levels = c("Male", "Female"), labels = c(1,2))</pre>
HouseholdData
      Respondents Sex Fathers_Occupation Person_at_home Siblings_at_schools
##
## 1
## 2
                 2
                     2
                                          2
                                                          7
                                                                               3
## 3
                 3
                     2
                                          3
                                                          3
                                                                               0
                                          3
                                                          8
## 4
                 4
                     1
                                                                               5
## 5
                 5
                     1
                                          1
                                                          6
                                                                               2
## 6
                 6
                     2
                                          2
                                                          4
                                                                               3
                 7
                                          2
## 7
                     2
                                                          4
                                                                               1
                                                          2
## 8
                                          3
                                                                               2
                 8
                     1
## 9
                 9
                     2
                                          1
                                                         11
                                                                               6
## 10
                10
                                          3
                                                                               2
                                                          6
##
      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
HouseholdData$Types_of_houses <- factor(HouseholdData$Types_of_houses, levels = c("Wood", "Congrete", "</pre>
HouseholdData
##
      Respondents Sex Fathers_Occupation Person_at_home Siblings_at_schools
## 1
                 1
                     1
                                          1
                                                          5
## 2
                 2
                     2
                                          2
                                                          7
                                                                               3
## 3
                 3
                     2
                                          3
                                                          3
                                                                               0
## 4
                 4
                     1
                                          3
                                                          8
                                                                               5
## 5
                     1
                                          1
                                                          6
                                                                               2
```

```
## 6
                                                                                 3
                 6
                                                           4
## 7
                 7
                     2
                                          2
                                                           4
                                                                                 1
## 8
                 8
                                          3
                                                          2
                                                                                 2
                     1
## 9
                 9
                     2
                                          1
                                                                                 6
                                                         11
                                          3
## 10
                10
                                                          6
                                                                                 2
##
      Types_of_houses
## 1
                     2
## 2
## 3
                     2
## 4
                     1
## 5
                     3
## 6
                     3
## 7
                     1
## 8
                     3
## 9
                     3
                     2
## 10
  D.
HouseholdData$Fathers_Occupation <- factor(HouseholdData$Fathers_Occupation, levels = c(1, 2, 3), label
HouseholdData
##
      Respondents Sex Fathers_Occupation Person_at_home Siblings_at_schools
## 1
                 1
                     1
                                     Farmer
                                                           5
                                                                                 2
                                                           7
## 2
                 2
                     2
                                     Driver
                                                                                 3
## 3
                     2
                                     Others
                                                           3
                                                                                 0
                 3
## 4
                 4
                     1
                                     Others
                                                           8
                                                                                 5
                                                           6
                                                                                 2
## 5
                 5
                     1
                                     Farmer
## 6
                 6
                     2
                                     Driver
                                                           4
                                                                                 3
## 7
                 7
                     2
                                     Driver
                                                           4
                                                                                 1
                                                          2
                                                                                 2
## 8
                 8
                     1
                                     Others
## 9
                 9
                     2
                                     Farmer
                                                                                 6
                                                         11
## 10
                10
                     1
                                     Others
                                                          6
                                                                                 2
##
      Types_of_houses
## 1
## 2
                     2
                     2
## 3
## 4
                     1
## 5
                     3
## 6
                     3
## 7
                     1
## 8
                     3
## 9
                     3
## 10
                     2
female_res <- subset(HouseholdData, Sex==2 & Fathers_Occupation =="Driver")</pre>
female_res
##
     Respondents Sex Fathers_Occupation Person_at_home Siblings_at_schools
## 2
                2
                    2
                                    Driver
                                                         7
                                                                               3
## 6
                    2
                                    Driver
                                                         4
                                                                               3
## 7
                7
                    2
                                    Driver
                                                         4
                                                                               1
##
     Types_of_houses
## 2
                    2
## 6
                    3
```

```
## 7
                    1
  F.
ms <- subset(HouseholdData, Respondents & Siblings_at_schools >= 5)
ms
     Respondents Sex Fathers_Occupation Person_at_home Siblings_at_schools
##
## 4
               4
                                  Others
               9
                    2
                                                                            6
## 9
                                  Farmer
                                                      11
     Types_of_houses
##
## 4
                    1
                    3
## 9
```

4. The graph show the sentiment of tweets from July 14, 2020 to July 21 ,2020. It shows that negative and neutral Tweets reach their peaks in July 15,2020 While the positive tweets reach their peaks in July 21, 2020.