RWorksheet3b_Frias

2022-11-25

R Markdown

```
#1. Create a data frame using the table below and Write the codes

Respondents <- c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)
Sex <- c(2, 2, 1, 2, 2, 2, 2, 2, 2, 2, 1, 2, 2, 2, 2, 2, 2, 2, 1, 2)
F_occupation <- c(1, 3, 3, 3, 1, 2, 3, 1, 1, 1, 3, 2, 1, 3, 3, 1, 3, 1, 2, 1)
Prsn_Home <- c(5, 7, 3, 8, 5, 9, 6, 7, 8, 4, 7, 5, 4, 7, 8, 8, 3, 11, 7, 6)
Sblng_Schl <- c(6, 4, 4, 1, 2, 1, 5, 3, 1, 2, 3, 2, 5, 5, 2, 1, 2, 5, 3, 2)
TypeHouses <- c(1, 2, 3, 1, 1, 3, 3, 1, 2, 3, 2, 3, 2, 2, 3, 3, 3, 3, 3, 2)

q <- data.frame(Respondents, Sex, F_occupation, Prsn_Home,
                Sblng_Schl, TypeHouses)
q
```

```
##    Respondents Sex F_occupation Prsn_Home Sblng_Schl TypeHouses
## 1            1   2            1         5          6          1
## 2            2   2            3         7          4          2
## 3            3   1            3         3          4          3
## 4            4   2            3         8          1          1
## 5            5   2            1         5          2          1
## 6            6   2            2         9          1          3
## 7            7   2            3         6          5          3
## 8            8   2            1         7          3          1
## 9            9   2            1         8          1          2
## 10          10   2            1         4          2          3
## 11          11   1            3         7          3          2
## 12          12   2            2         5          2          3
## 13          13   2            1         4          5          2
## 14          14   2            3         7          5          2
## 15          15   2            3         8          2          3
## 16          16   2            1         8          1          3
## 17          17   2            3         3          2          3
## 18          18   2            1        11          5          3
## 19          19   1            2         7          3          3
## 20          20   2            1         6          2          2
```

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

summary(q)
```

```
##   Respondents         Sex        F_occupation    Prsn_Home      Sblng_Schl
##  Min.   : 1.00   Min.   :1.00   Min.   :1.00   Min.   : 3.0   Min.   :1.00
##  1st Qu.: 5.75   1st Qu.:2.00   1st Qu.:1.00   1st Qu.: 5.0   1st Qu.:2.00
##  Median :10.50   Median :2.00   Median :2.00   Median : 7.0   Median :2.50
##  Mean   :10.50   Mean   :1.85   Mean   :1.95   Mean   : 6.4   Mean   :2.95
```

```
##  3rd Qu.:15.25   3rd Qu.:2.00   3rd Qu.:3.00   3rd Qu.: 8.0   3rd Qu.:4.25
##  Max.   :20.00   Max.   :2.00   Max.   :3.00   Max.   :11.0   Max.   :6.00
##    TypeHouses
##  Min.   :1.0
##  1st Qu.:2.0
##  Median :2.5
##  Mean   :2.3
##  3rd Qu.:3.0
##  Max.   :3.0
```

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

##Answer: NO, the mean num is 2.95
```

```
#d. Extract the 1st two rows and then all the columns using the subsetting functions.

#Write the cods and its output.

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

```
##   Respondents Sex F_occupation Prsn_Home Sblng_Schl TypeHouses
## 1           1   2            1         5          6          1
## 2           2   2            3         7          4          2
```

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

  E <- subset(q[c(3,5), c(2,4)])
  E
```

```
##   Sex Prsn_Home
## 3   1         3
## 5   2         5
```

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

  TypeofHouses <- q$TypeHouses
  TypeofHouses
```

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

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

  Farmer <- subset(q[c(1:20), c(2,3)])
  Farmer
```

```
##    Sex F_occupation
## 1    2            1
## 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   1            3
## 12   2            2
## 13   2            1
## 14   2            3
## 15   2            3
## 16   2            1
## 17   2            3
## 18   2            1
## 19   1            2
## 20   2            1
```

```
  Male <- Farmer[q$F_occupation == '1',]
  Male
```

```
##    Sex F_occupation
## 1    2            1
## 5    2            1
## 8    2            1
## 9    2            1
## 10   2            1
## 13   2            1
## 16   2            1
## 18   2            1
## 20   2            1
```

```
#h. Select only all females respondent that have greater than or equal to 5 number of siblings attendin
   #Write the codes and its output.

  Frspndnts <- subset(q[c(1:20), c(2,5)])
  Frspndnts
```

```
##    Sex Sblng_Schl
## 1    2          6
## 2    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
## 15   2          2
## 16   2          1
## 17   2          2
## 18   2          5
## 19   1          3
## 20   2          2
```

```
  F <- Frspndnts[q$Sblng_Schl >= '5',]
  F
```

```
##    Sex Sblng_Schl
## 1    2          6
## 7    2          5
## 13   2          5
## 14   2          5
## 18   2          5
```

```
#2.Write a 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
```

```
#a. Describe the results.
  # The data frame has no columns, 5 variables and 0 levels. all in all "NULL"
```

```
#3. Interpret the graph.

  Sntmnts_of_twwt_perDay <- print("I interpret it that the sentiments of tweet per day of Donal Trump sh
```

```
## [1] "I interpret it that the sentiments of tweet per day of Donal Trump shows that lots of Negative a
```

```
  Sntmnts_of_twwt_perDay
```

```
## [1] "I interpret it that the sentiments of tweet per day of Donal Trump shows that lots of Negative a
```