Assignment - 2

Irene Jacob

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ASSIGNMENT 2

Choose six recent popular movies. Ask at least five people that you know (friends, family, classmates, imaginary friends if necessary) to rate each of these movies that they have seen on a scale of 1 to 5. Take the results (observations) and store them in a SQL database of your choosing. Load the information from the SQL database into an R dataframe.

Step 1: Collect the data and store in SQL database

To see the dataset click here.

Step 2: Connecting R with MySQL

```
library(RMySQL)
library(RODBC)
library("dplyr")
library("dbplyr")

connection <- RODBC::odbcConnect("data607")</pre>
```

Step 3: Load the dataset in R dataframe

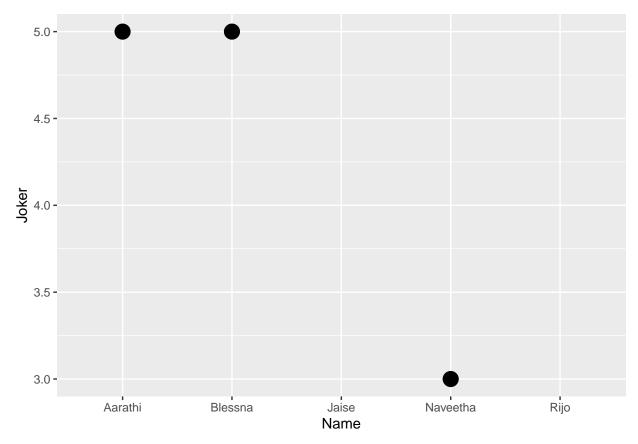
```
## 1
          Rijo
                  NA
                                      3
                                                 3
                                                               NA
                                                                               NA
## 2 Blessna
                   5
                                      5
                                                                5
                                                                                5
                                                NA
## 3 Naveetha
                   3
                                      5
                                                NA
                                                               NA
                                                                               NA
                   5
     Aarathi
                                      4
                                                 5
                                                                5
                                                                                5
## 5
        Jaise
                  NA
                                     NA
                                                 4
                                                               NA
                                                                               NA
     Black Panther
## 1
## 2
                  5
## 3
                  4
## 5
                 NA
```

Step 4: Graphs of each movie

Here the null values are eliminated

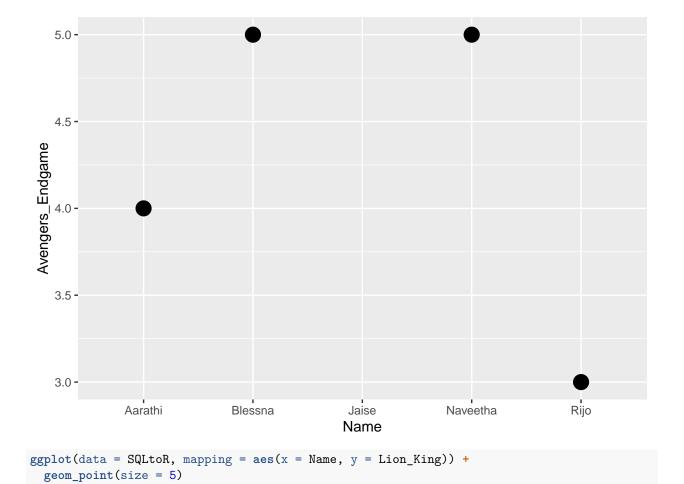
```
ggplot(data = SQLtoR, mapping = aes(x = Name, y = Joker)) +
geom_point(size = 5)
```

Warning: Removed 2 rows containing missing values (geom_point).

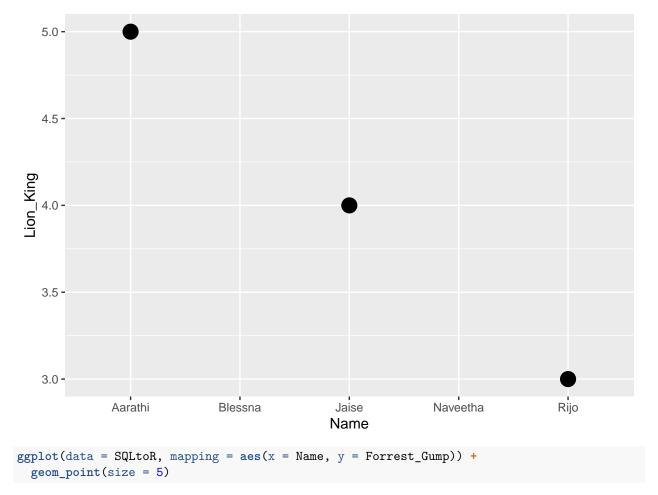


```
ggplot(data = SQLtoR, mapping = aes(x = Name, y = Avengers_Endgame)) +
geom_point(size = 5)
```

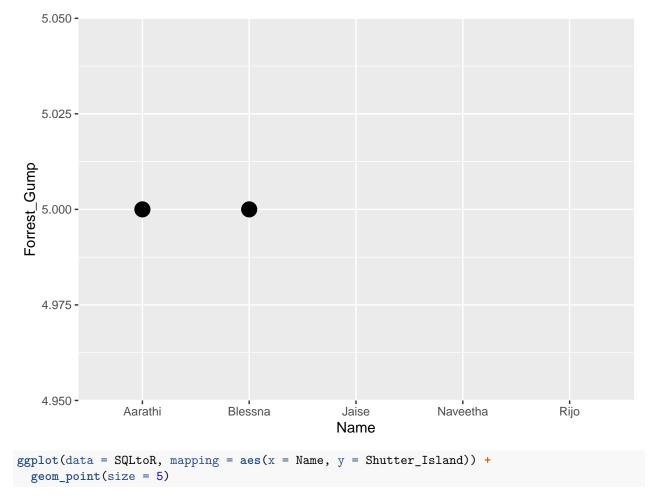
Warning: Removed 1 rows containing missing values (geom_point).



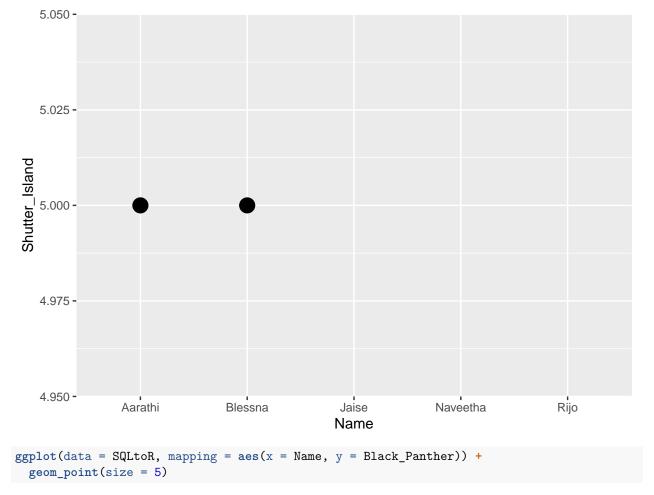
Warning: Removed 2 rows containing missing values (geom_point).



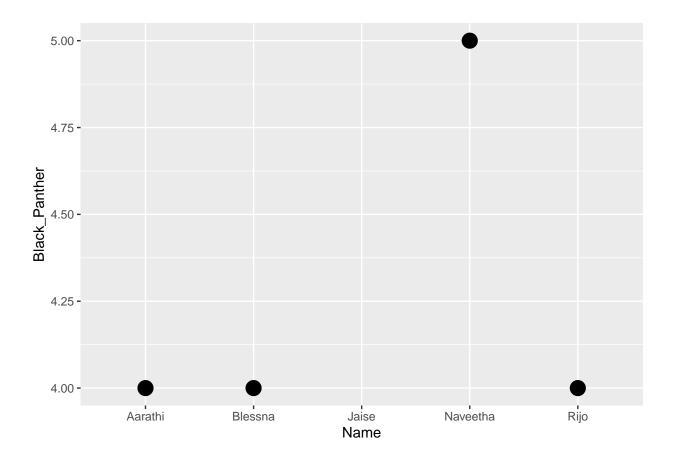
Warning: Removed 3 rows containing missing values (geom_point).



Warning: Removed 3 rows containing missing values (geom_point).



Warning: Removed 1 rows containing missing values (geom_point).

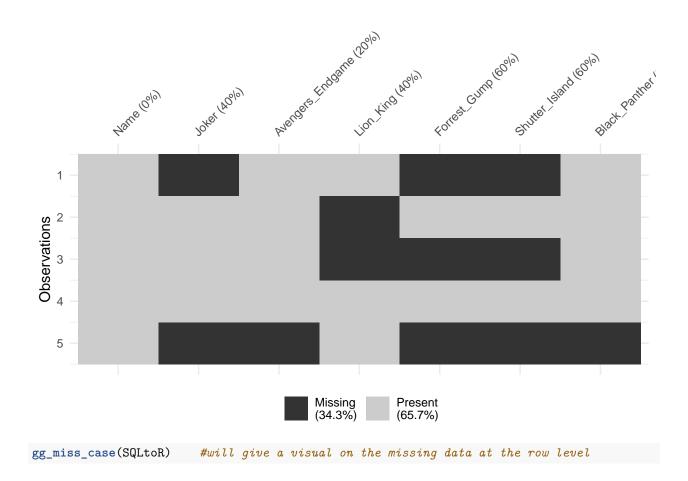


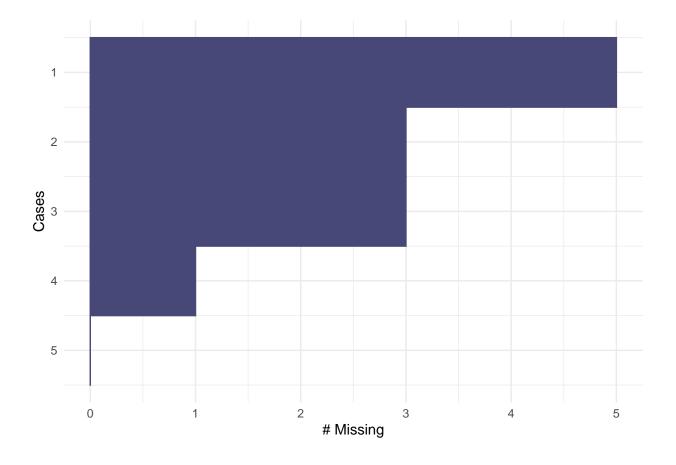
Step 5: Identify if there are any missing values

The 'naniar' package provides many functions to identify and deal with missing values.

```
library(naniar)
any_na(SQLtoR)  #will tell if there are missing values in the data frame

## [1] TRUE
vis_miss(SQLtoR)  #will give a visual on the missing data
```





Step 6: Handle the mssing data

print(SQLtoR , na.rm = FALSE) # na.rm when TRUE removes the missing data Name Joker Avengers_Endgame Lion_King Forrest_Gump Shutter_Island ## 1 Rijo NA## 2 Blessna 5 5 NA 5 5 ## 3 Naveetha 3 5 NA NANA ## 4 Aarathi 5 4 5 5 5 ## 5 NA4 NAJaise NANA## ${\tt Black_Panther}$ ## 1 ## 2 4 5 ## 3 ## 4 4 ## 5 NA

Conclusion

From the data I collected from my friends I would suggest Jaise to watch Black Panther and Shutter Island as they are really good movies.