

# Assignment - 2

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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")
```

### Step 3: Load the dataset in R dataframe

```
library(sqldf)
library(DBI)

SQLtoR <- RODBC::sqlQuery(connection, "select * from `assign_2`")
print(SQLtoR)
```

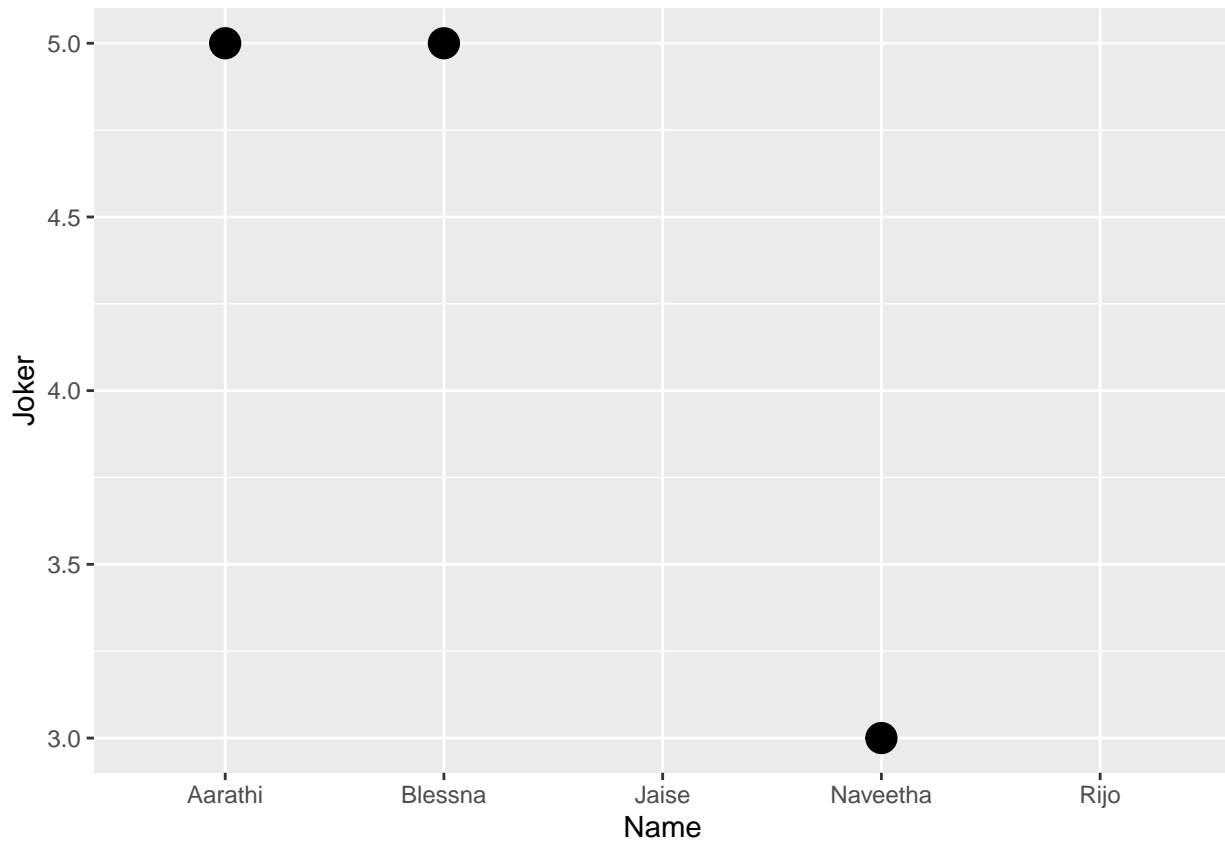
##	Name	Joker	Avengers_Endgame	Lion_King	Forrest_Gump	Shutter_Island
## 1	Rijo	NA	3	3	NA	NA
## 2	Blessna	5	5	NA	5	5
## 3	Naveetha	3	5	NA	NA	NA
## 4	Aarathi	5	4	5	5	5
## 5	Jaise	NA	NA	4	NA	NA
##	Black_Panther					
## 1		4				
## 2		4				
## 3		5				
## 4		4				
## 5		NA				

## Step 4: Graphs of each movie

Here the null values are eliminated

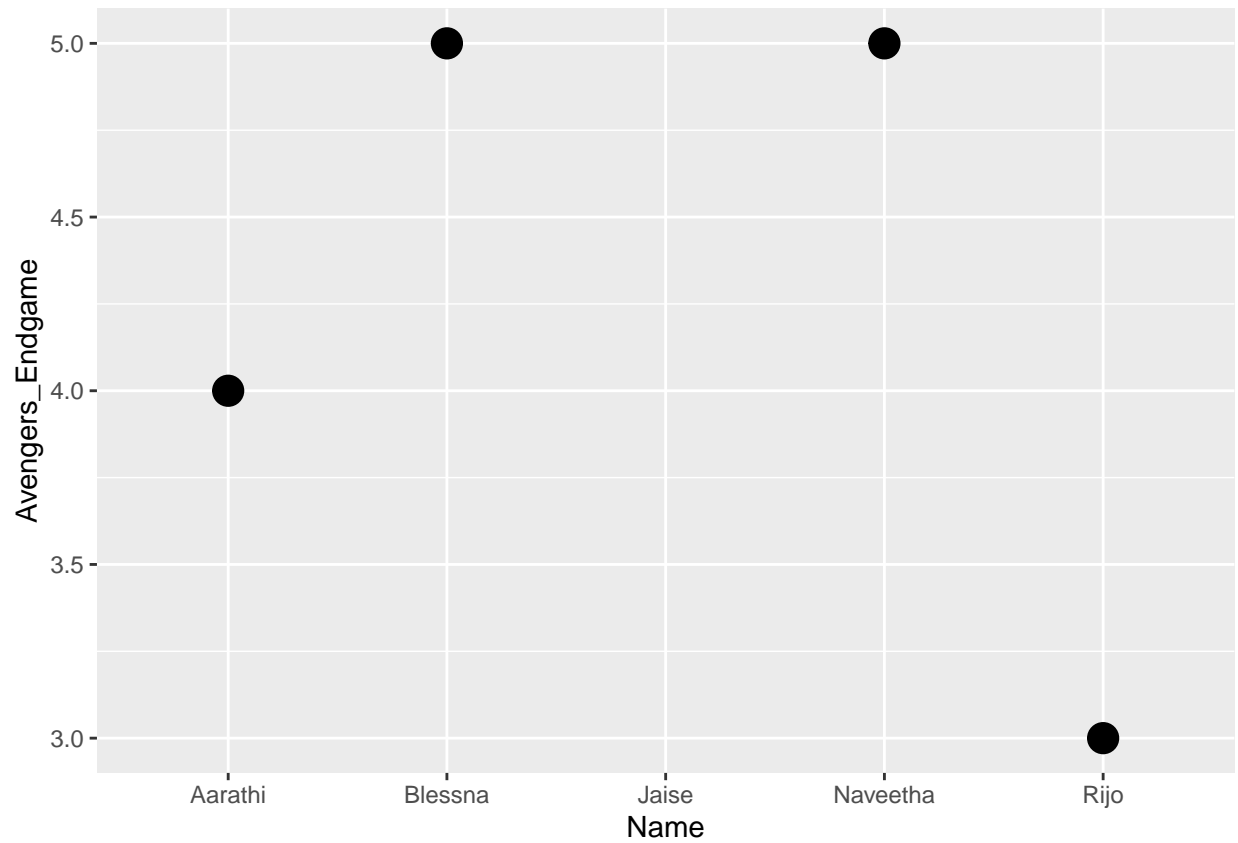
```
ggplot(data = SQLtoR, mapping = aes(x = Name, y = Joker)) +  
  geom_point(size = 5)
```

## Warning: Removed 2 rows containing missing values (geom\_point).



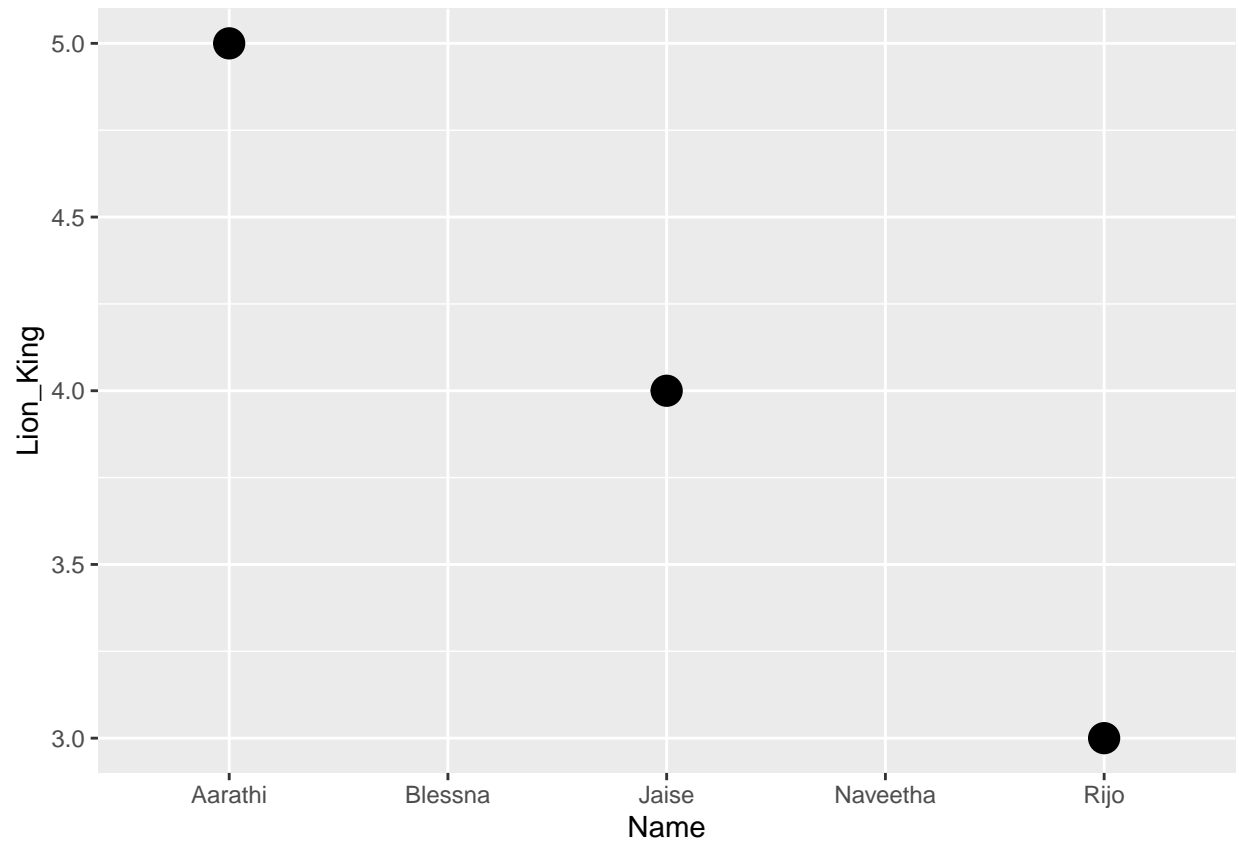
```
ggplot(data = SQLtoR, mapping = aes(x = Name, y = Avengers_Endgame)) +  
  geom_point(size = 5)
```

## Warning: Removed 1 rows containing missing values (geom\_point).



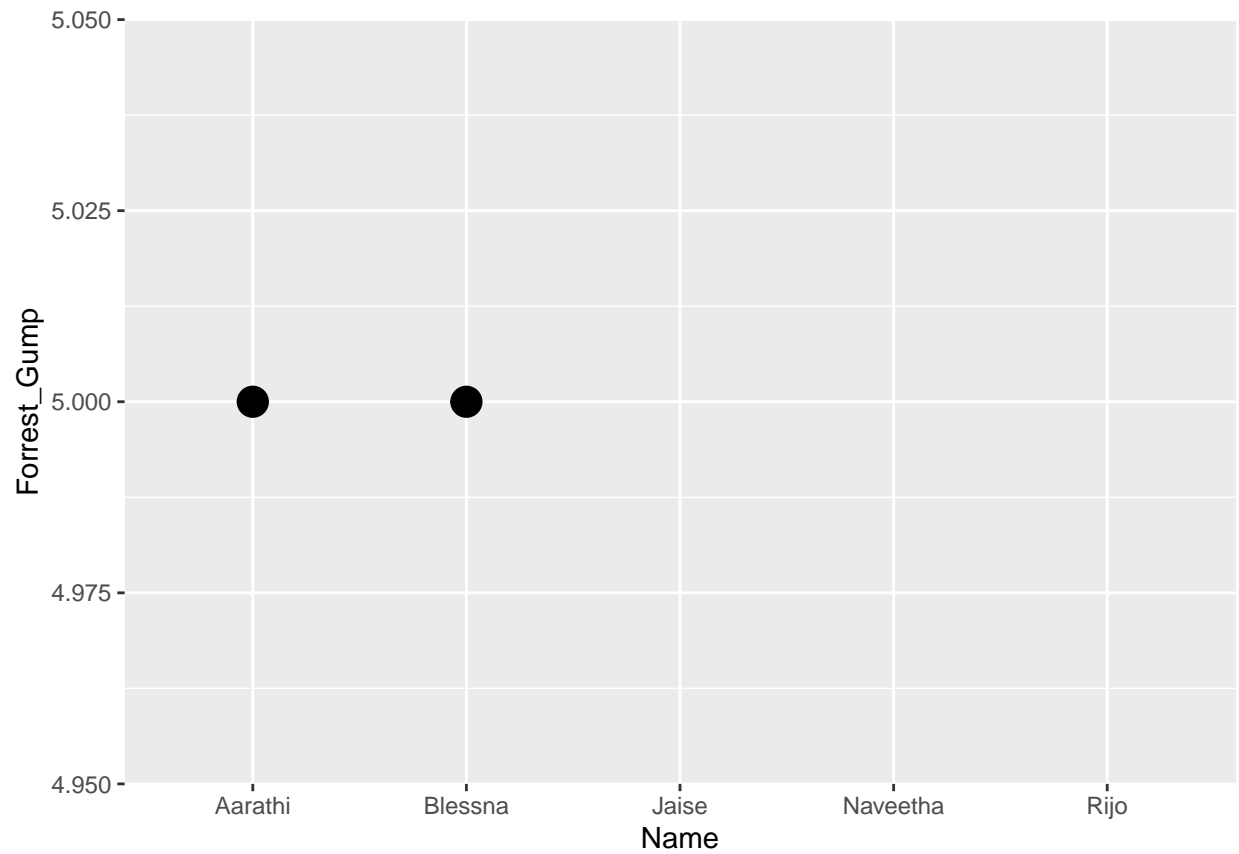
```
ggplot(data = SQLtoR, mapping = aes(x = Name, y = Lion_King)) +  
  geom_point(size = 5)
```

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



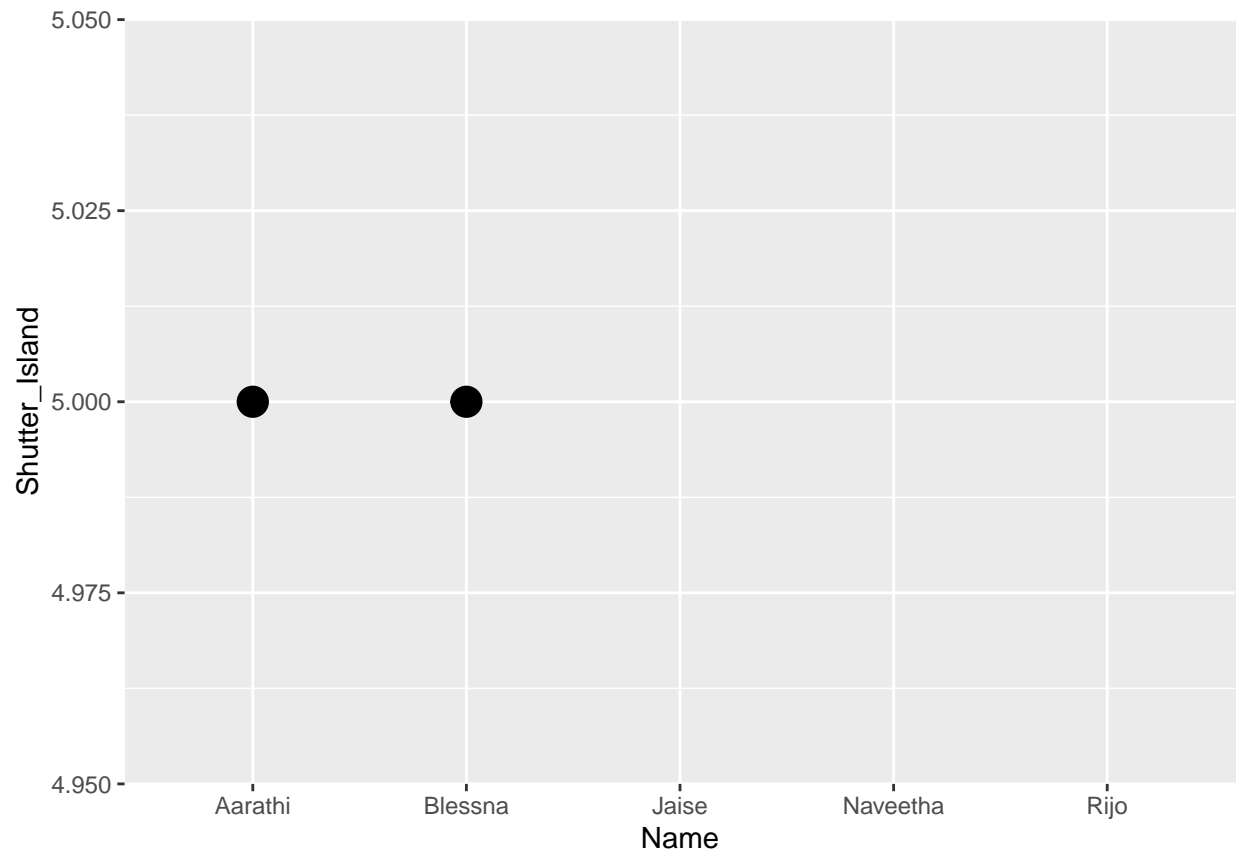
```
ggplot(data = SQLtoR, mapping = aes(x = Name, y = Forrest_Gump)) +  
  geom_point(size = 5)
```

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



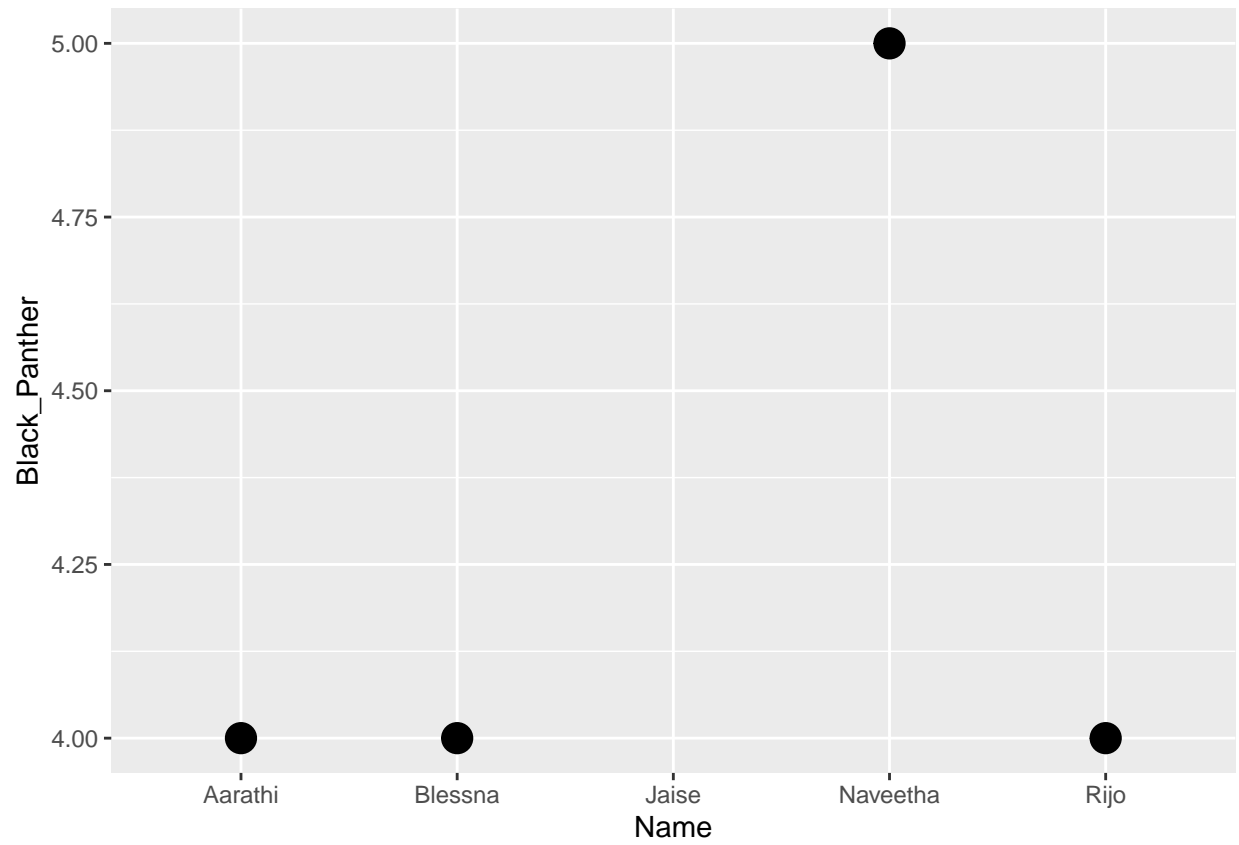
```
ggplot(data = SQLtoR, mapping = aes(x = Name, y = Shutter_Island)) +  
  geom_point(size = 5)
```

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



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

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



## Step 5: Handling missing values

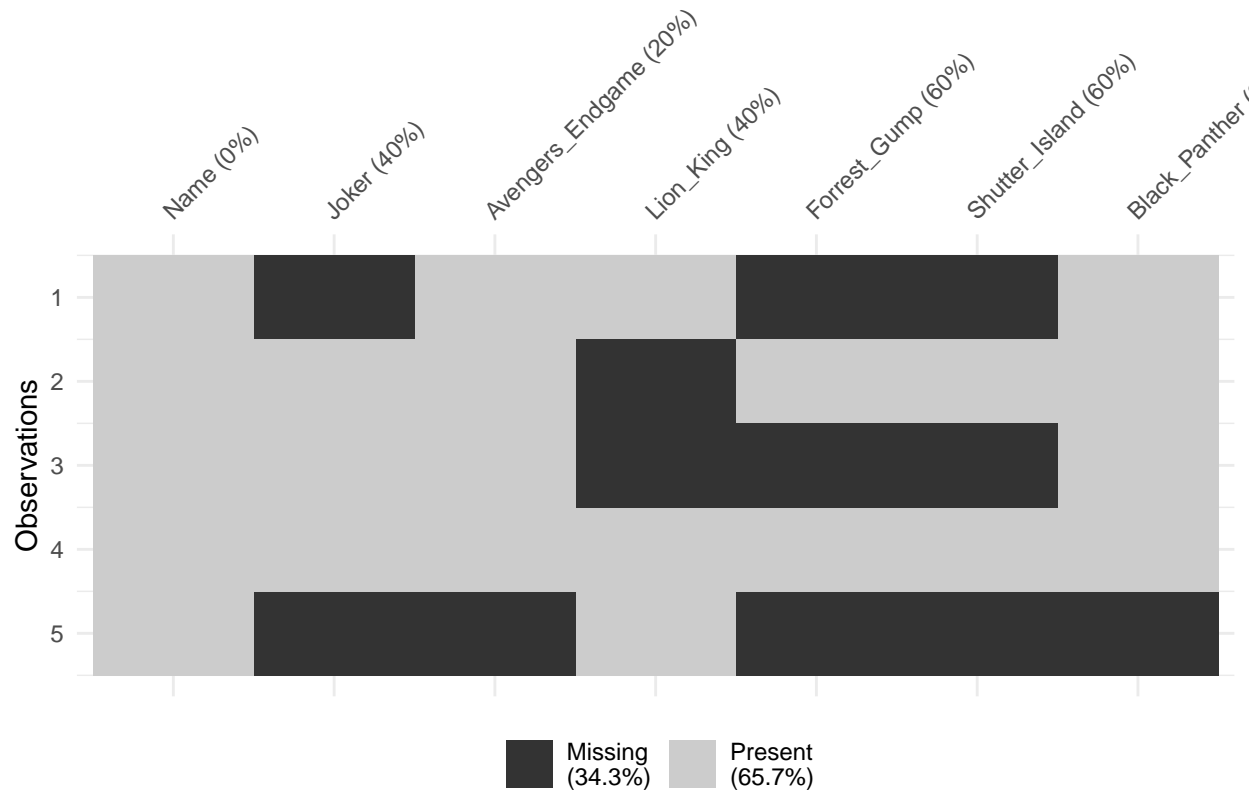
The 'naniar' package provides many functions to identify and deal with missing values.

```
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
```



```
gg_miss_case(SQLtoR) #will give a visual on the missing data at the row level
```



