DATA607_Assignment_2

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library(tidyverse)

Introduction

A database of a CSV file that established in MySQL Workbench was loaded into Rstudio. I collected six movies reviews from five of my friends. Through R, I did some rating analysis and data cleaning of this database.

```
Ratingsdata <- data.frame(read.csv("https://raw.githubusercontent.com/PMCformosa/DATA607_Assignment2/mahead(Ratingsdata)
```

##		Friends	FirstName	${ t MovieName}$	Ratings
##	1	1	Jenny	Avatar	4
##	2	1	Jenny	PLANE	NULL
##	3	1	Jenny	80 FOR BRADY	5
##	4	1	Jenny	A MAN CALLED OTOO	NULL
##	5	1	Jenny	MEGAN	5
##	6	1	Jenny	The Whale	3

Average rating of each movie from five of my friends

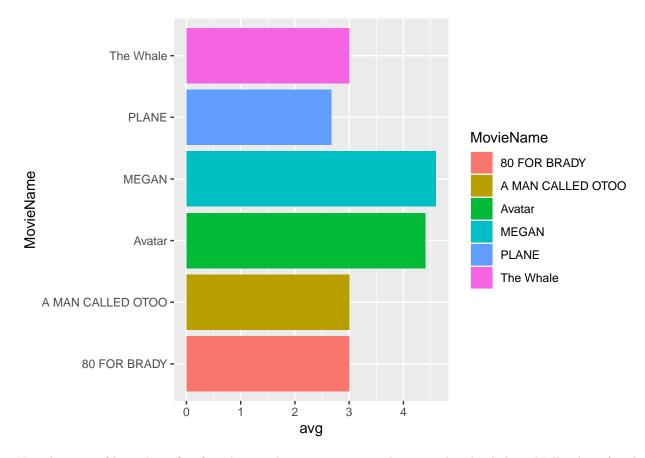
Null values were filtered out from Ratings

```
avgerage_Ratings <- Ratingsdata %>%
  group_by(MovieName) %>%
  filter(Ratings != "NULL") %>%
  summarise(avg= mean(as.integer(Ratings)))
avgerage_Ratings
```

```
## # A tibble: 6 x 2
##
     MovieName
                          avg
     <chr>>
##
                        <dbl>
## 1 80 FOR BRADY
                         3
## 2 A MAN CALLED OTOO
                         3
## 3 Avatar
                         4.4
## 4 MEGAN
                         4.6
## 5 PLANE
                         2.67
## 6 The Whale
                         3
```

From this bar plot we can easily tell that "MEGAN" has the highest rating among the six movies currently showing in theaters.

```
library(ggplot2)
ggplot(data=avgerage_Ratings, aes(x=avg, y=MovieName , fill=MovieName)) +
   geom_bar(stat="identity")
```



Visualization of how these five friends rate these six movies is shown in the plot below. Null value of each reviewer is replaced by rating= 0 in each plot.

```
library(ggplot2)
data_01 = Ratingsdata
data_01[,4][data_01[,4] == "NULL"] <- 0
ggplot(data=data_01, aes(x=MovieName, y = Ratings, fill = MovieName, label = Ratings))+
    geom_bar(stat="identity")+
    facet_wrap(~FirstName)+</pre>
```

Movie Ratings by each Friend

