607 -Assignment 2

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```r
library(RMySQL)
```

```
## Loading required package: DBI
```

```r
library(dbConnect)
```

```
## Loading required package: gWidgets
```

```r
library(gWidgets)

con =dbConnect(MySQL(), user ='root', password = DataScienceisAwesome, dbname = 'superhero_movies', hos
```

```r
dbListTables(con)
```

```
## [1] "superhero_movies"
```

```r
Movie_Query <- "select * from superhero_movies;"
movies_superhero <- dbGetQuery(con,Movie_Query)
```

```r
str(movies_superhero)
```

```
## 'data.frame':    22 obs. of  10 variables:
##  $ ID                     : int  1 2 3 4 5 6 7 8 9 10 ...
##  $ NAME                   : chr  "Andre" "John" "Suvda" "Melody" ...
##  $ Sex                    : chr  "m" "m" "f" "f" ...
##  $ Deadpool               : int  5 5 NA 5 5 5 5 5 5 5 ...
##  $ Logan                  : int  4 5 1 3 3 5 5 5 3 5 NA ...
##  $ Amazing_Spider_Man     : int  2 2 2 1 4 NA 2 NA 2 NA ...
##  $ Batman_vs_Superman     : int  1 1 3 2 2 2 1 3 2 NA ...
##  $ Gaurdians_of_the_Galaxy_2: int  NA 4 4 5 4 3 4 5 3 NA ...
##  $ Captain_America_Civil_War: int  5 4 3 4 3 4 4 5 3 NA ...
##  $ Spider_MAN_Home_Coming : int  5 NA NA NA NA NA NA NA NA NA ...
```

```r
summary(movies_superhero)
```

```
##        ID           NAME               Sex              Deadpool    
##  Min.   : 1.00   Length:22          Length:22          Min.   :3.000  
##  1st Qu.: 6.25   Class :character   Class :character   1st Qu.:5.000  
##  Median :11.00   Mode  :character   Mode  :character   Median :5.000  
##  Mean   :11.00                                         Mean   :4.684  
##  3rd Qu.:15.75                                         3rd Qu.:5.000  
##  Max.   :21.00                                         Max.   :5.000  
##                                                        NA's   :3      
##      Logan       Amazing_Spider_Man Batman_vs_Superman
##  Min.   :1.00   Min.   :1.0        Min.   :1.000  
##  1st Qu.:3.25   1st Qu.:2.0        1st Qu.:1.000  
##  Median :4.00   Median :3.0        Median :2.000  
##  Mean   :4.00   Mean   :2.8        Mean   :2.059  
##  3rd Qu.:5.00   3rd Qu.:3.0        3rd Qu.:3.000  
##  Max.   :5.00   Max.   :5.0        Max.   :4.000  
##  NA's   :4      NA's   :7          NA's   :5      
```
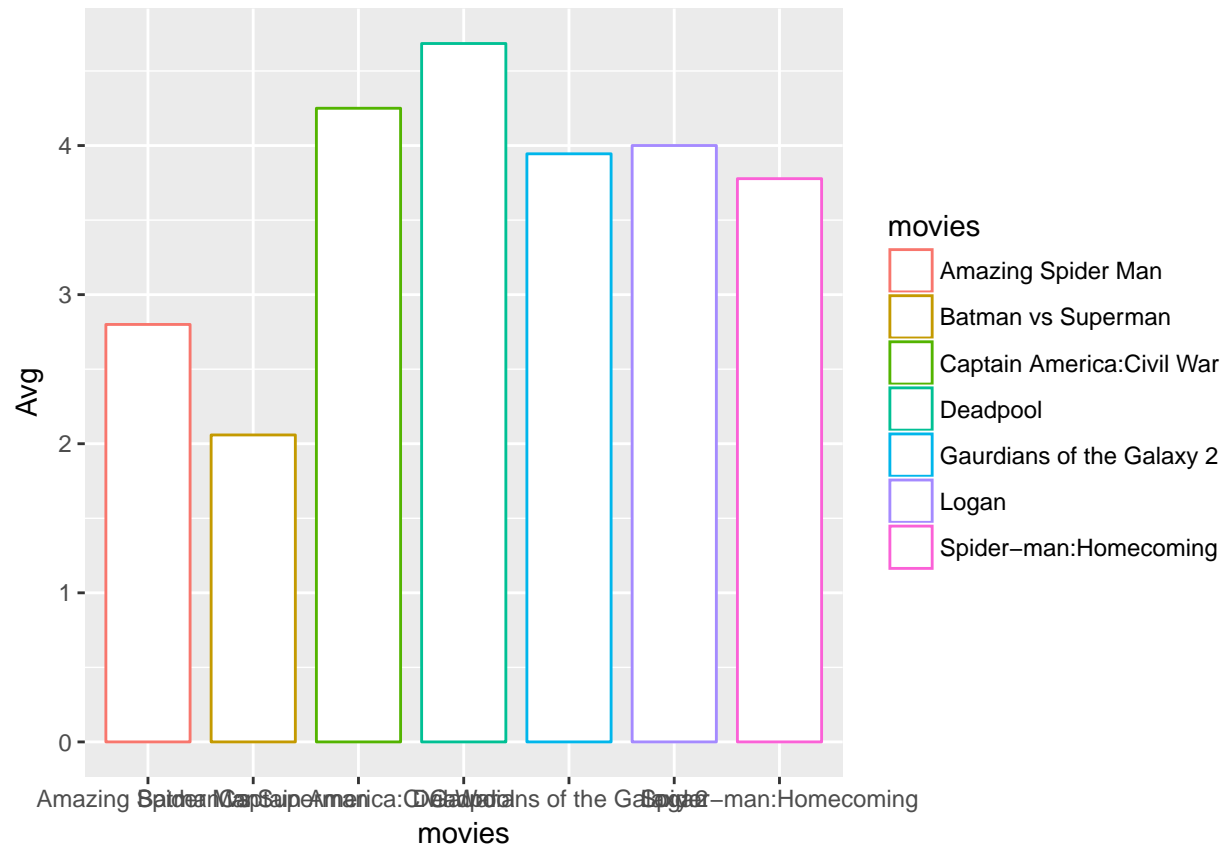
```
##  Gaurdians_of_the_Galaxy_2 Captain_America_Civil_War
##  Min.   :1.000            Min.   :3.00
##  1st Qu.:4.000            1st Qu.:4.00
##  Median :4.000            Median :4.00
##  Mean   :3.944            Mean   :4.25
##  3rd Qu.:5.000            3rd Qu.:5.00
##  Max.   :5.000            Max.   :5.00
##  NA's   :4                NA's   :2
##  Spider_MAN_Home_Coming
##  Min.   :1.000
##  1st Qu.:3.000
##  Median :4.000
##  Mean   :3.778
##  3rd Qu.:5.000
##  Max.   :5.000
##  NA's   :13
```

```r
Deadpool_avg <- mean(movies_superhero$Deadpool, na.rm = T)
Logan_avg <- mean(movies_superhero$Logan, na.rm = T)
Amazingspiderman_avg <- mean(movies_superhero$Amazing_Spider_Man, na.rm = T)
BvS_avg <- mean(movies_superhero$Batman_vs_Superman, na.rm = T)
GOTG2_avg <- mean(movies_superhero$Gaurdians_of_the_Galaxy_2, na.rm = T)
CA_CivilWar_avg <- mean(movies_superhero$Captain_America_Civil_War, na.rm = T)
Spider_man_homecoming <- mean(movies_superhero$Spider_MAN_Home_Coming, na.rm = T)

Averages <- data.frame(movies = c("Deadpool", "Logan", "Amazing Spider Man", "Batman vs Superman", "Gau
                       Avg =c(Deadpool_avg,Logan_avg,Amazingspiderman_avg,BvS_avg,GOTG2_avg,CA_CivilWar_a
```

```r
library(ggplot2)  #For plotting
```

```r
ggplot(data = Averages, aes(x =movies, y =Avg, color = movies)) +
        geom_bar(stat = "identity", width = .8, fill = "white")
```

Average Superhero Film Ratings

```
library(stringr)
Averages$wrapmovies <- str_wrap(Averages$movies, width = 7)

Movie_Avg_Barplot <- ggplot(data = Averages, aes(x = wrapmovies, y =Avg, color = movies)) +
        geom_bar(stat = "identity", width = .8, fill = "white") +
        labs(title = "Average Superhero Film Ratings ",
        x = "Film Title", y ="Average Rating")

  Movie_Avg_Barplot
```

Average Superhero Film Ratings