Data-607 Week-2 Assignment

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-      GitHub Location for rmd file
-      GitHub Location for SQL script
-      GitHub Location for pdf file
-      RPubs location of published file

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Following are the pre-requisites for running this script

- Local installation of MySQL Server
- Local installation of MySQL Workbench
- MovieRatings.sql: Git Hub url is provided in the header section above
- R Packages RMySQL, htmlTable

Take following steps to execute the R script

- Download MovieRatings.sql file and run it against active schema on your MySQL server
- Make sure MovieRatings.sql script is executed successfully
- Open R mark up script in R Studio
- Change variables login.user, login.password and db.name variables to match your envronment
- Execute R mark up script

```
library(RMySQL)
```

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

```
library(htmlTable)
```

1] Configurable variables. Make sure to change the variables to match your environment

```
login.user = 'sachid'
login.password = 'DatabasePassword@1'
db.name = 'moviecatalogue'

mydb = dbConnect(MySQL(), user= login.user, password=login.password, dbname=db.name)
```

2] Read Movie Ratings data into R Data Frame

```
Movie.Ratings <- dbGetQuery(mydb, "select moviename, username, userrating from users join userratings
                on users.userid = userratings.userid join movies on userratings.movieid= movies.movie
```

3] Display movie ratings in data frame. Displayed in matrix format

```
x = matrix(Movie.Ratings$userrating,ncol=5,byrow=T, dimnames = list(unique(Movie.Ratings$moviename), uni
htmlTable(x, caption="Most populer movie ratings")
```

Most populer movie ratings

James

Seth

Anant

Vishal

Eric

Star Wars

1

2

4

3

4

Terminator

1

1

5

3

3

The Godfather

1

1

5

4

2

The Lion King

1

5

5

1

1

The Lord of the Rings

4

4

4

5

4

Titanic

1

1

5

2

1

4] Display movie ratings in data frame.

```
htmlTable(Movie.Ratings, caption="Most populer movie ratings",rnames=F)
```

Most populer movie ratings

moviename

username

userrating

Star Wars

James

1

Star Wars

Seth

2

Star Wars

Anant

4

Star Wars

Vishal

3

Star Wars

Eric

4

Terminator

James

1

Terminator

Seth

1

Terminator

Anant

5

Terminator

Vishal

3

Terminator

Eric

3

The Godfather

James

1

The Godfather

Seth

1

The Godfather

Anant

5

The Godfather

Vishal

4

The Godfather

Eric

2

The Lion King

James

1

The Lion King

Seth

5

The Lion King

Anant

5

The Lion King

Vishal

1

The Lion King

Eric

1

The Lord of the Rings

James

4

The Lord of the Rings

Seth

4

The Lord of the Rings

Anant

4

The Lord of the Rings

Vishal

5

The Lord of the Rings

Eric

4

Titanic

James

1

Titanic

Seth

1

Titanic

Anant

5

Titanic

Vishal

2

Titanic

Eric

1