Homework Week 2

CUNY MSDA DATA 607

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Assignment - SQL a nd R

Choose six recent popular movies. Ask at least five people that you know (friends, family, classmates, imaginary friends) to rate each of these movie that they have seen on a scale of 1 to 5. Take the results (observations) and store them in a SQL database. Load the information into an R dataframe. Your deliverables should include your SQL scripts and your R Markdown code, posted to GitHub. This is by design a very open ended assignment. A variety of reasonable approaches are acceptable. You can (and should) blank out your SQL password if your solution requires it; otherwise, full credit requires that your code is "reproducible," with the assumption that I have the same database server and R software. You may work in a small group.

Solution

Need to type Local MySQL Root password

```
# Need to type root password for the local database
myLocalPassword <- 'pswrd'</pre>
```

Connect to database

```
# Connect to database
my.database = dbConnect(MySQL(), user='root', password = myLocalPassword, dbname='villalobos-movies', h
dbListTables(my.database)
## [1] "tblmovies" "tblreviews" "tblusers"
```

Display Users Table

```
user_id
##
               fname
## 1
           1
               Sarah
## 2
           2
               Maria
## 3
           3
               Elena
## 4
           4
               Diana
## 5
           5 Michael
## 6
               Heidy
```

Display Movies Table

```
# -- Table `movies`
my.movies <- dbSendQuery(my.database, "SELECT * FROM tblmovies;")
dbFetch(my.movies)
##
   movie_id
                     title lenght
## 1 1
                     Logan 60
                      Si3 120
## 2
         2
## 3
         3 Kung Fu Yoga 141
## 4 4 The Ghazi Attack 90
## 5 5 Space 121
     6
## 6
                     Raees 90
```

Display Reviews Table Raw info

Read data from MySQL all tables combined into one query

```
movie.data = dbSendQuery(my.database, "SELECT
M.title As 'Title',
M.lenght AS 'Lenght',
U.fname As 'User',
R.rating As 'Rating',
R.review AS 'Review'
FROM tblMovies AS M
JOIN tblReviews AS R
ON M.movie_id = R.movie_id
JOIN tblUsers AS U
ON U.user_id = R.user_id;")
dbFetch(movie.data)
```

```
## 5 Kung Fu Yoga 141 Elena NA Under rated
## 6 Kung Fu Yoga 141 Sarah 4 Really impressed
```

Only one user who gave reviews

```
movie.dataSingleUser = dbSendQuery(my.database, "SELECT
M.title As 'Title',
M.lenght AS 'Lenght',
U.fname As 'User',
R.rating As 'Rating',
R.review AS 'Review'
FROM tblMovies AS M
JOIN tblReviews AS R
ON M.movie_id = R.movie_id
JOIN tblUsers AS U
ON U.user_id = R.user_id
WHERE U.user_id = 1;")
dbFetch(movie.dataSingleUser)
```

```
## Title Lenght User Rating Review
## 1 Logan 60 Sarah 5 The Best
## 2 Kung Fu Yoga 141 Sarah 4 Really impressed
```

Only one Rating score

```
movie.dataRating = dbSendQuery(my.database, "SELECT
M.title As 'Title',
M.lenght AS 'Lenght',
U.fname As 'User',
R.rating As 'Rating',
R.review AS 'Review'
FROM tblMovies AS M
JOIN tblReviews AS R
ON M.movie_id = R.movie_id
JOIN tblUsers AS U
ON U.user_id = R.user_id
WHERE R.rating = 5;")
dbFetch(movie.dataRating)
```

```
## Title Lenght User Rating Review
## 1 Logan 60 Sarah 5 The Best
## 2 Logan 60 Michael 5 Hala
```

Database disconnect

```
### Disconnect
#dbGetQuery(my.database, "show processlist")
#dbGetQuery(my.database, "kill 14")
```