CSE 305 Final Project Phase Report

A. Group Members
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B. Environmental Information
    a. **Database**- Amazon Relational Database Service (RDS). More specifically we used *RDS for mySQL Server* which allows for simple development and deployment in the cloud.
    b. **Front-end**- The front-end was created using HTML templates. We implemented the Bootstrap framework to assist with retrieving values from the back-end as well.
    c. **Web platform**- We did not deploy our website remotely, however Flask was used to run the application locally on our respective machines.
    d. **Language**- Python was used to connect the front and back-ends. Python application files were set up to connect with the database (RDS) and then route information based on actions to a specific URL. The PyMySQL module was used to implement the query statements within the python files.

C. Transactions Description
    1. Display movies that are now playing in theaters.

Now Playing Movies
Ralph Breaks the Internet
Creed II
Venom
Widows
Bohemian Rhapsody

Query:
"SELECT MovieID, Name FROM Movie WHERE `Now Playing` = 1"

2. Display the theaters that a specific movie is playing at.

Theaters for selected movie
Regal Cinemas Deer Park 16
Regal Cinemas Ronkonkoma 9
Islip Cinemas
Farmingdale Multiplex Cinemas
AMC Loews Stony Brook 17
Island 16 Cinema De Lux

Query:
"SELECT Name FROM Theater,Movie_has_Theater WHERE Theater.ID = Theater_ID and Movie_MovieID = %s"

3. Display all movies alphabetically.

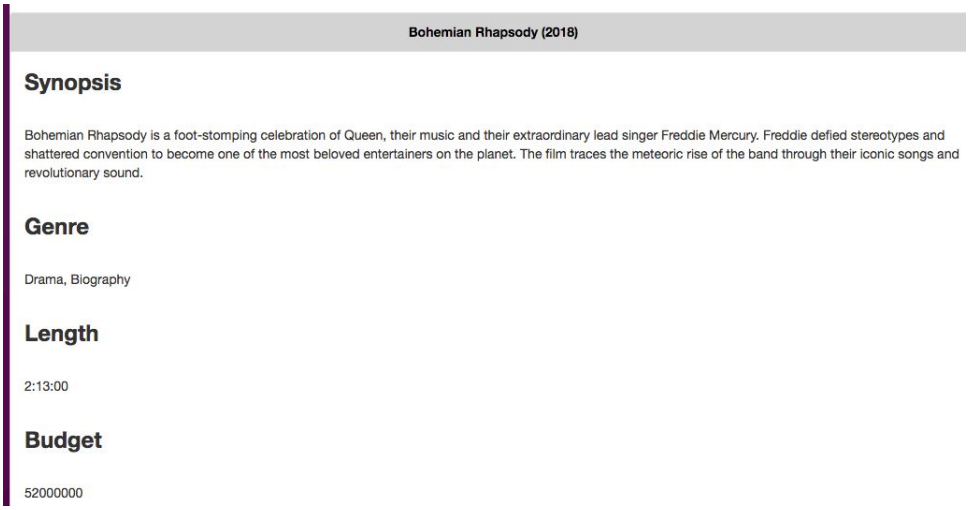
Movies A-Z
Bohemian Rhapsody
Creed II
Jurassic Park
Ralph Breaks the Internet
Valentine's Day
Venom
Waiting For Forever
Waitress
WALL-E

Query:
"SELECT MovieID, Name FROM Movie ORDER BY Name"

Actors A-Z
Ahmed, Riz
B. Jordan, Michael
Bernthal, Jon
Boynton, Lucy
Burtt, Ben
Davis, Viola
Debicki, Elizabeth
Garlin, Jeff

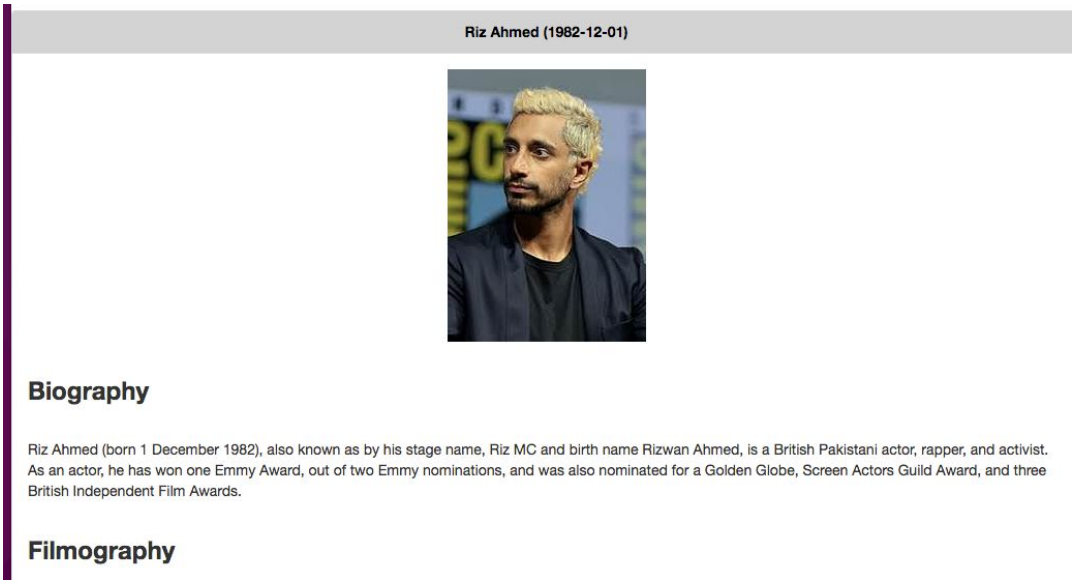
4. Display all actors and actresses alphabetically.
   Query:
   "SELECT ID, LastName, FirstName FROM Person, Actor WHERE Person.ID = Actor.Person_ID ORDER BY LastName"

5. Display more information about a movie. *(Some information not shown in screenshot)*



   Query:
   "SELECT * FROM Movie WHERE Movie.MovieID = %s"

6. Display more information about an actor/actress. *(Some information not shown in screenshot)*



Query:
"SELECT * FROM Person WHERE ID = %s"

7. Display the top 5 rated movies.

Top 5 Rated Movies (Rotten Tomatoes)
WALL-E (96/100)
Widows (91/100)
Jurassic Park (91/100)
Waitress (89/100)
Ralph Breaks the Internet (87/100)

Query:
"SELECT MovieID, Name, RottenTomatoeScore FROM Movie ORDER BY Movie.RottenTomatoeScore desc LIMIT 5"