Zekun Zhao

ID: 01160883

Project code:

Github repo url: https://github.com/cooeoeooc/Zekun-Zhao-Final-Project

Data Sources:

I used two websites for collecting data sources. The first one is https://www.imdb.com/chart/top. I scraped IMDB top rated 250 movies from this website into json file and saved the information into local cache file. The second one is http://www.omdbapi.com/ (The documentation is also in the website) Through API search, I found more details about these 250 movies and save them into cache file. I found and save 250 movie records. From IMDB website, I collect fields as following:

- movie_name
- movie_year: the release year of the movie
- movie_rank: the rank of the movie among IMDB TOP 250 Movies
- movie_url: the IMDB url of the movie
- movie_imdb_id: the IMDB id of the movie

From the OMDB API, I collect fields as Following:

- Movie_Rate(R or PG)
- Movie Runtime
- Movie Director
- IMDB_Rating
- Rotten Tomatoes Rating
- Metascore: score of Metacritic website
- Movie_Production: The production company of the movie (i.e. Paramount Pictures, Universal Pictures)
- Movie_Genre: (i.e. Comedy, Drama, Action).

Evidence of Caching:

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DataBase:

DataBase Schema:

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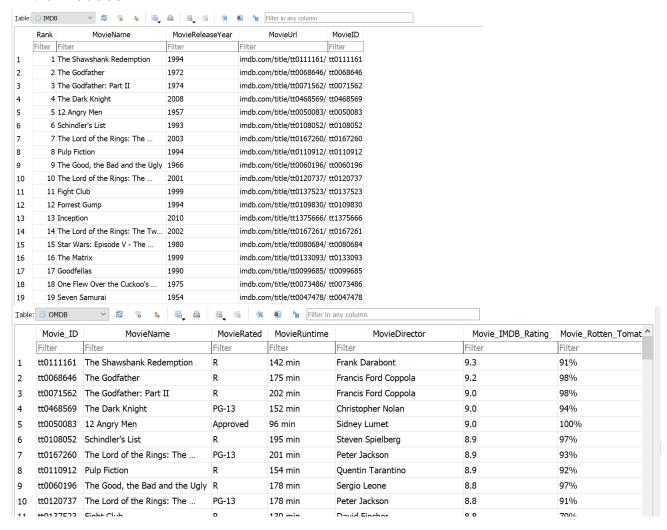
```
def create_omdb_database(omdb_list_of_tuple):
 generate imdb database using information from OMDB
parameter: list of tuple, which contains movies' information get from OMDB API
conn=sqlite3.connect('OMDB.sqlite')
c=conn.cursor()
c.execute('''DROP TABLE IF EXISTS "OMDB"''')
c.execute('''CREATE TABLE IF NOT EXISTS "OMDB"(
    Movie_IMDB_Rating text,
    Movie Rotten Tomatoes Rating text,
    Movie_Metascore text,
    Movie_prodcution text,
    Movie Genre text,
    Movie_Language text)''')
c.executemany('INSERT INTO OMDB VALUES(?,?,?,?,?,?,?,?,?,?)',omdb_list_of_tuple)
conn.commit()#Save changes
conn.close
```

The primary key of my IMDB database is rank, and the primary key of my OMDB database is Movie_ID (the IMDB movie id), which is also a foreign key linked my two tables.

Screenshots of my tables:

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Interaction and Presentation Plans:

For this part, users can input search key word to find movie's information. For example, if the user type the rank number of a movie, the movie's information should pop out like <movie_name> is a <release_year> movie, and directed by<movie_director>. If the user type one kind of language (i.e. French), then all French movies will form a list like:

- 1. <movie name> is a <genre> released in <movie_year>
- 2. ...
- 3. ...
- 4. ...

From this step, the user can also choose to type a number to get the details about the movie.

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Like language, if a user input a genre type (i.e. "Comedy"), then the program will form a list of comedy, as following:

1.<movie name> is a <genre>, language:<movie_language>, country:<movie_country>

2....

3....

4....

For next step, the user also can input the number of movie to get more details of the movie.

Moreover, I plan to use different criteria to group those movies and use plotly to show the number of different groups. For example, I can group by genre, group by language, group by country, and group by imdb_rating.