FINAL PROJECT README

For this project I chose option 2-Twitter & OMDB

The project has a set list of movies and analyzes tweets about the main actors within each one. It creates a database that contains tables for twitter users, tweets, and omdb movie entries.

The program has no inputs and is run by the command: python 206_data_access.py

Dependencies:

- import omdb
 - o pip install omdb
- from emoji import UNICODE_EMOJI
 - pip install emoji
- import tweepy
 - pip install tweepy

Necessary Files:

- twitter info.py
 - Contains a twitter consumer key, consumer secret, access token and access token secret.

Files Created:

- The program will create 2 files upon runtime
 - final cache.json
 - A file used to cache all data from API searches to speed up later searches
 - final.db
 - A database that contains the three tables mentioned above.
 - results.txt
 - A file stating the findings from the program

Classes:

The program only contains one class, a Movie class. One Movie instance represents a movie from the OMDB database. The class constructor takes an OMDB movie dictionary to create all the instance variables.

Class Methods:

- main_actor()
 - The method takes no input and does not alter any variables. It returns the first actor within the actors instance variable.
- str()___

- The method has no input nor does it alter anything. The method returns the movie in a legible string with title, director, and the year the movie was created.
 - "The Avengers by Josh Whedon made in 2012"

Databases + Tables:

- One Database is created called final.db which contains three tables: Users, Tweets, and Movies.
 - Tweets
 - tweet_id(INTEGER) the primary key
 - text(TEXT) the text of the tweet
 - user id(INTEGER) the ID of the user who made the tweet
 - time_posted(TIMESTAMP) The time at which the tweet was made
 - retweets(INTEGER) How many times
 - movie_id(INTEGER the ID of the movie it is referencing)
 - Users
 - user_id(TEXT) the ID of the twitter user
 - screen_name(TEXT) Screen name of the twitter user
 - num_favs(INTEGER) overall number of favorites the user has
 - Movies
 - movie_id(TEXT) the imdb ID of the movie
 - title(TEXT) Title of the movie
 - director(TEXT) Director of the movie
 - num_langs(INTEGER) Languages that the movie is in
 - imdb_rating(REAL) IMDB rating
 - actor(TEXT) Lead actor in the movie
 - year(INTEGER) year the movie was made

Why this project:

I chose this project because I wanted to get more comfortable with API calls. I'll be working with them at my summer internship and thought it would be a great opportunity to develop my skills. They also allow for a great amount of freedom and data manipulation, which is exciting.

Specifics:

- Data gathering functions start on line 88
- Class definition starts on line 42
- Databases are created at line 71
- Databases are loaded at lines 172, 186, and 200
- Data processing occurs at lines 208, 224, 237, 257, and 291

Code successfully running:

Without routing to external file:

MD00004100000-1114

The Avengers by Joss Whedon made in 2012 Date Night by Shawn Levy made in 2010 Inception by Christopher Nolan made in 2010

•Roughly 74.44% of all tweets contained a link (num links / num tweets)

•18 emojis are used which is 0.002312% of all characters

 ${ullet}$ The actor Steve Carell has the longest tweets with an average length of 111.4 characters

•The most popular tweet was "RT @filmagraphy: Leonardo DiCaprio photographed by Greg Gorman, 1994. https://t.co/2dDFDhFb1B" with 8306 retweets mentioning Leonardo DiCaprio who was in the movie Inception

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With routing to external file:

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[Connors-MacBook-Pro-2:Final_Project connorjohnston$ python 206_data_access.py [Connors-MacBook-Pro-2:Final_Project connorjohnston$ python 206_data_access.py [Connors-MacBook-Pro-2:Final_Project connorjohnston$ python 206_data_access.py Connors-MacBook-Pro-2:Final_Project connorjohnston$
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