Allison Klippe and Julie Palmer - Christmas Party

Github repository: https://github.com/julpal/206final

The goals for your project (10 points)

- Original plan was to use the Letterboxd API and Spotify API to find movies and songs for a Christmas Party
 - Letterboxd API not public yet, so we changed to Yelp
- New plan was to use the Yelp and Spotify APIs to create a plan for where you're going to eat in Ann Arbor while listening to Christmas music
 - Compile and create a playlist of the most popular songs on Spotify
 - Compile a list of restaurants of different cuisines in Ann Arbor and sort them by rating

The goals that were achieved (10 points)

- We compiled the most popular Christmas songs into a table
- We compiled restaurants in Ann Arbor of many different cuisines to find a place to go depending on what you're in the mood for

The problems that you faced (10 points)

- The most difficult part of our project was figuring out which API's we wanted to use and what each API required. We tried a few movie and music API's that gave us difficulty before landing on Yelp and looking at restaurant data.
- It was hard to coordinate and combine our collaborated work into a single database.

Your file that contains the calculations from the data in the database (10 points)

File in zip, copied here:

Top

Name, Popularity, Tempo

All I Want for Christmas Is You,93,150

Santa Tell Me.90.191

Rockin' Around The Christmas Tree,88,67

It's the Most Wonderful Time of the Year,87,202

Mistletoe,87,161

It's Beginning to Look a Lot like Christmas,86,94

Last Christmas - Remastered, 85, 106

Have Yourself A Merry Little Christmas,84,75

White Christmas, 83, 130

The Christmas Song (Merry Christmas To You),83,78

Let It Snow! Let It Snow! Let It Snow!,83,134

Christmas (Baby Please Come Home),82,127

Holly Jolly Christmas, 82, 151

Do They Know It's Christmas? - 1984 Version,82,115

Blue Christmas,81,94

Like It's Christmas,81,146

Average Tempo for Top 15 Songs: 134.73333333333333

Bottom

Name, Popularity, Tempo

Mistletoe,0,161

Every Holiday, 56, 124

Mistletoe - Recorded at Electric Lady Studios NYC.,59,79

Roman Holiday, 60,74

Coldest Winter,61,83

Holiday,61,117

Dear Winter, 63,94

Winter Wonderland, 63, 145

Winter Blues, 63, 131

White Winter Hymnal,63,126

Holiday / Boulevard of Broken Dreams,63,167

Underneath The Mistletoe,63,123

Fa La La,64,94

A Winter's Ball,65,131

Angels We Have Heard on High,65,77

White Winter Hymnal, 66, 124

Average Tempo for Bottom 15 Songs: 123.3333333333333333

Ratings

Rating, Count

- 4.5,36
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- 4,51

Number of Reviews

Review Count, Review Amount

470, some reviews

51, not many reviews

203, some reviews

162, some reviews

182, some reviews

141, some reviews

57, not many reviews

77, not many reviews

253, some reviews

88, not many reviews

128, some reviews

63,not many reviews

162, some reviews

308, some reviews

319, some reviews

33,not many reviews

258, some reviews

177, some reviews

1681, many reviews

67, not many reviews

367, some reviews

707, many reviews

53,not many reviews

- 153, some reviews
- 251, some reviews
- 54, not many reviews
- 180, some reviews
- 11, not many reviews
- 57, not many reviews
- 429, some reviews
- 166, some reviews
- 163, some reviews
- 196, some reviews
- 358, some reviews
- 187, some reviews
- 120, some reviews
- 208, some reviews
- 52, not many reviews
- 114, some reviews
- 209, some reviews
- 760, many reviews
- 292, some reviews
- 191, some reviews
- 360, some reviews
- 327, some reviews
- 107, some reviews
- 112, some reviews
- 300, some reviews
- 259, some reviews
- 137, some reviews
- 212, some reviews
- 272, some reviews
- 148, some reviews
- 76, not many reviews
- 1076, many reviews
- 37, not many reviews
- 412, some reviews
- 48, not many reviews
- 97,not many reviews
- 424, some reviews
- 9,not many reviews
- 349, some reviews
- 219, some reviews
- 228, some reviews
- 392, some reviews
- 322, some reviews

72, not many reviews

730, many reviews

293, some reviews

1076, many reviews

2,not many reviews

162, some reviews

86, not many reviews

19, not many reviews

279, some reviews

334, some reviews

206, some reviews

30,not many reviews

78, not many reviews

202, some reviews

233, some reviews

60, not many reviews

10, not many reviews

226, some reviews

81,not many reviews

86, not many reviews

27,not many reviews

93,not many reviews

20, not many reviews

92, not many reviews

426, some reviews

153, some reviews

890, many reviews

219, some reviews

106, some reviews

77, not many reviews

1,not many reviews

107, some reviews

29,not many reviews

34, not many reviews

226, some reviews

162, some reviews

162, some reviews

5,not many reviews

106, some reviews

78, not many reviews

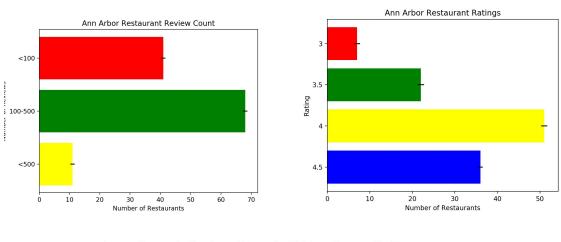
890, many reviews

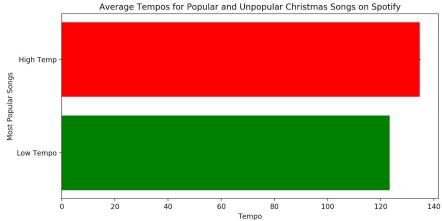
1076, many reviews

1149, many reviews

201, some reviews
34, not many reviews
470, some reviews
227, some reviews
117, some reviews
188, some reviews
77, not many reviews
1681, many reviews
241, some reviews
19, not many reviews
63, not many reviews

The visualization that you created (i.e. screenshot or image file) (10 points)





Instructions for running your code (10 points)

- For spotify_API.py and yelp.py, code is commented. After the first run of code, comment
 out the lines that create the tables in the database, and change the search parameters.
 There is a list of search queries in a comment above the API requests we made. Use a
 different one each time.
- Each other python file just needs to be run once.

Documentation for each function that you wrote. This includes the input and output for each function (20 points)

• Code is commented.

You must also clearly document all the resources you used. The documentation should be of

the following form (20 points)

Date: 12/2/2019

Issue Description: Issues figuring out authorization

Location of Resource: https://python.gotrained.com/yelp-fusion-api-tutorial/

Result (did it solve the issue): Yes

Date: 12/2/2019

Issue Description: Referenced to access spotify API authorization token.

Location of Resource:

https://stackoverflow.com/guestions/55927009/how-to-access-spotifys-web-api-with-client-id-an

d-secret

Result (did it solve the issue): Yes

Date: 12/8/2019

Issue Description: Issues creating database

Location of Resource:

https://www.reddit.com/r/learnpython/comments/2dauu3/sqlite3 error with python sqlite3interf

aceerror/

Result (did it solve the issue): Yes

Date: the whole project

Issue Description: Referenced for parameters, authorization, etc. (for Yelp! API) Location of Resource: https://www.yelp.com/developers/documentation/v3

Result (did it solve the issue): Yes

Date: the whole project

Issue Description: Referenced for parameters, authorization, etc. (for spotify API)

Location of Resource: https://spotipy.readthedocs.io/en/latest/

Result (did it solve the issue): Yes

Date: 12/11/19

Issue Description: Referenced for information on SELECT and JOIN in sqlite3 Location of Resource: https://www.tutorialspoint.com/sqlite/sqlite_python.htm

Result (did it solve the issue): Yes