### **Final Project Report**

#### Data

- List of Data Sources
  - Yelp API
    - Data Available: Reviews about different restaurants that can be filtered down to different locations and types of restaurants using keywords
  - https://www.kaggle.com/datasets/uciml/restaurant-data-with-consumer-ratings?res
    ource=download&select=geoplaces2.csv
    - Data Available: CSV files that contain information that all corresponds back to a placeID. Information includes restaurant name, location, cuisine, service rating, etc.

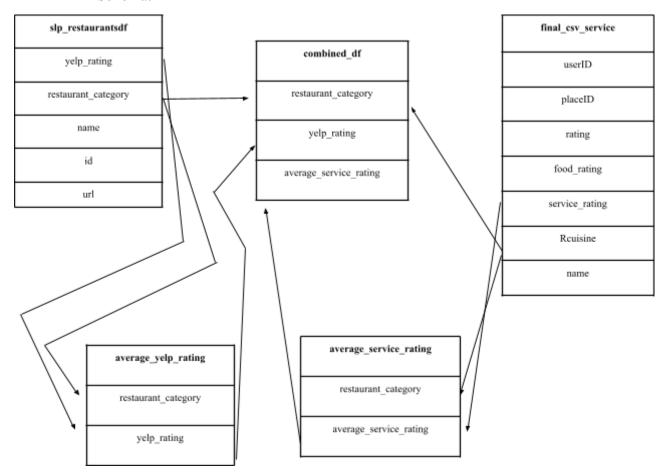
#### Data Used

- Yelp API: I used the reviews about different restaurants by using yelps'
  'search\_query' function to search restaurants in a specific location. I also used the 'keyword' argument to filter the restaurants by cuisine.
- CSV Data: I imported three different types of CSV files that all contained different information about restaurants. One contained information about the service reviews, another about the cuisine type, and another about the name of the restaurant. I combined all of the CSV files into one so that I could access all of the data from them with one ID.

#### Cleaning Challenges

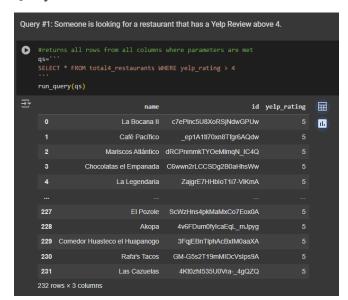
 I found that when I was using the Yelp 'search\_query', it had a limit on how many reviews it would return and it made it difficult for me to gather all the reviews for my data.

### • RDB Schema:



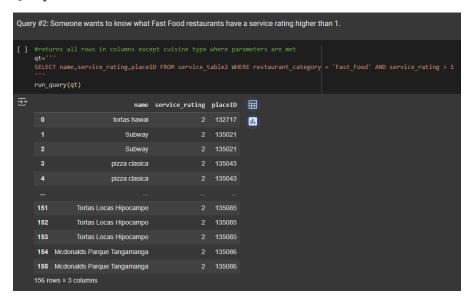
# • Queries:

Ouery Case #1:



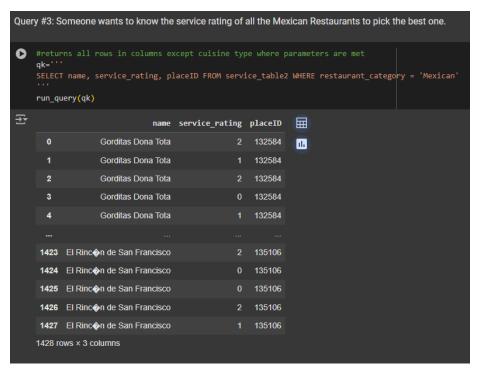
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• Query Case #2:



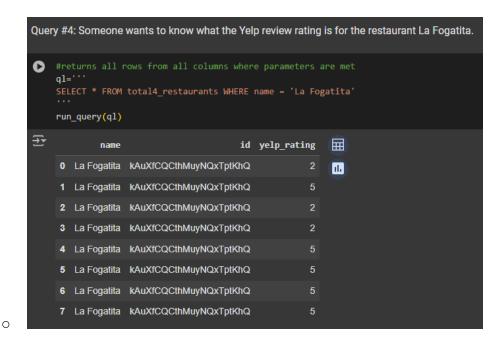
Ouery Case #3:

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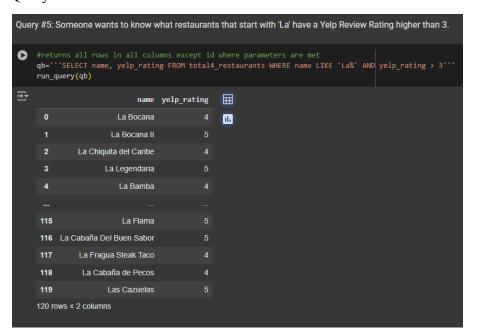


Query Case #4:

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Ouery Case #5:



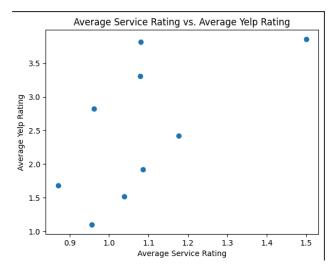
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# Plots

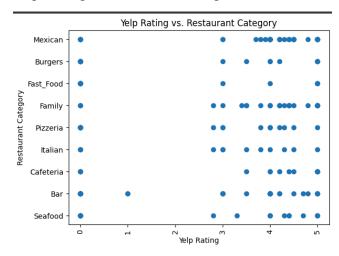
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Average Service Rating vs. Average Yelp Rating



Yelp Rating on Restaurant Categories



Service Rating on Restaurant Categories

