



RESTAURANT SCOPE ANALYSIS

Goal : Analyze data about restaurants in major cities of Canada providing insights to an investor in food industry before opening a new restaurant

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Processes:

Data Collection

- Collect data from multiple API's to have a comprehensive dataset to observe a trend. Here data was fetched from 'Yelp' using python.

Data Cleaning using Pandas Python Library

- Identify missing values
- Remove duplicate rows from the dataset
- Ensure that columns have the correct data types.
- Convert categorical variables into numerical values.
- Store relevant information in Dataframes further analysis.

Data visualization for EDA using matplotlib and seaborn

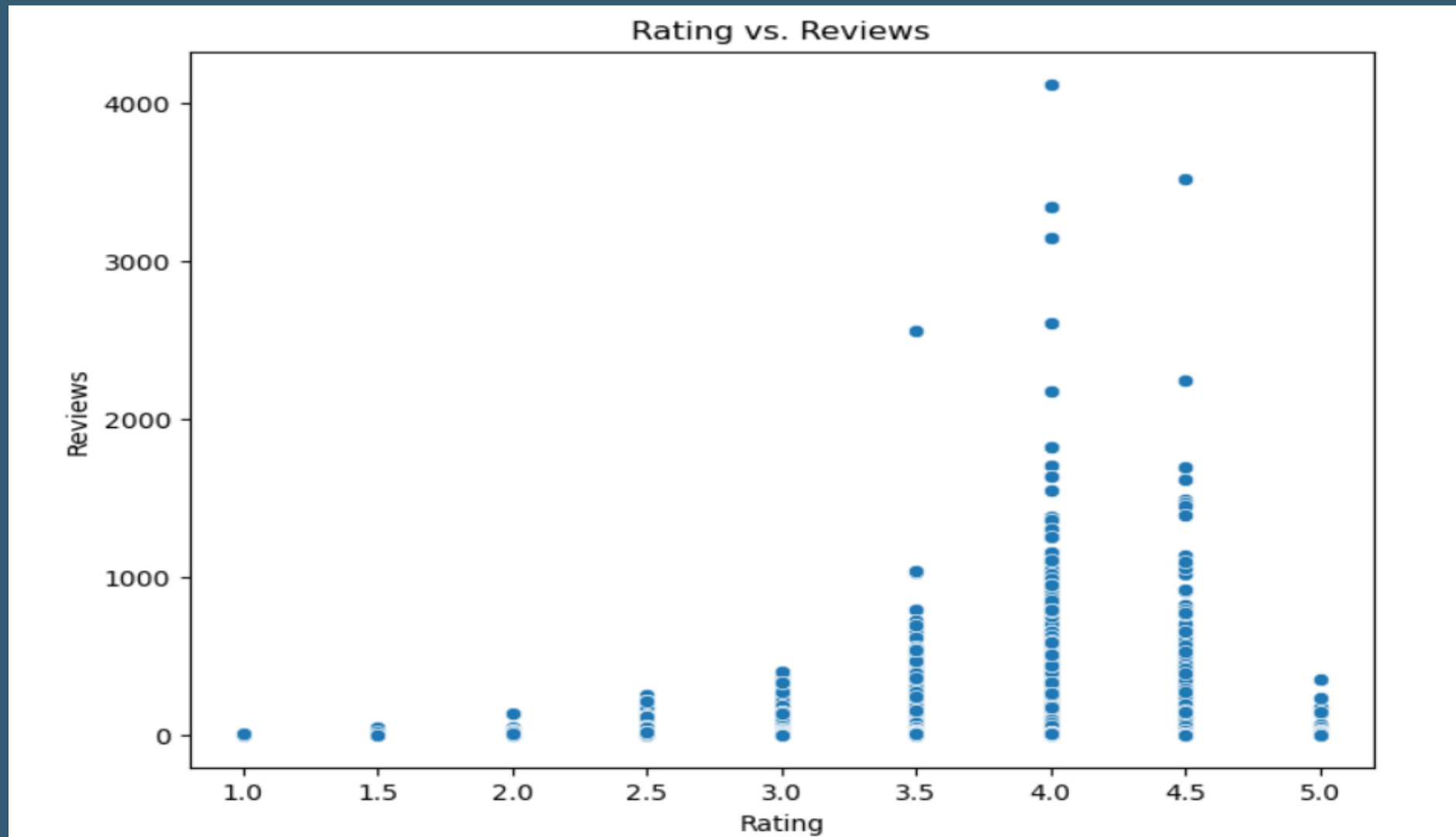
- Create plots to understand the data, discovering patterns and spotting anomalies.

Data visualization and Dashboard using Tableau

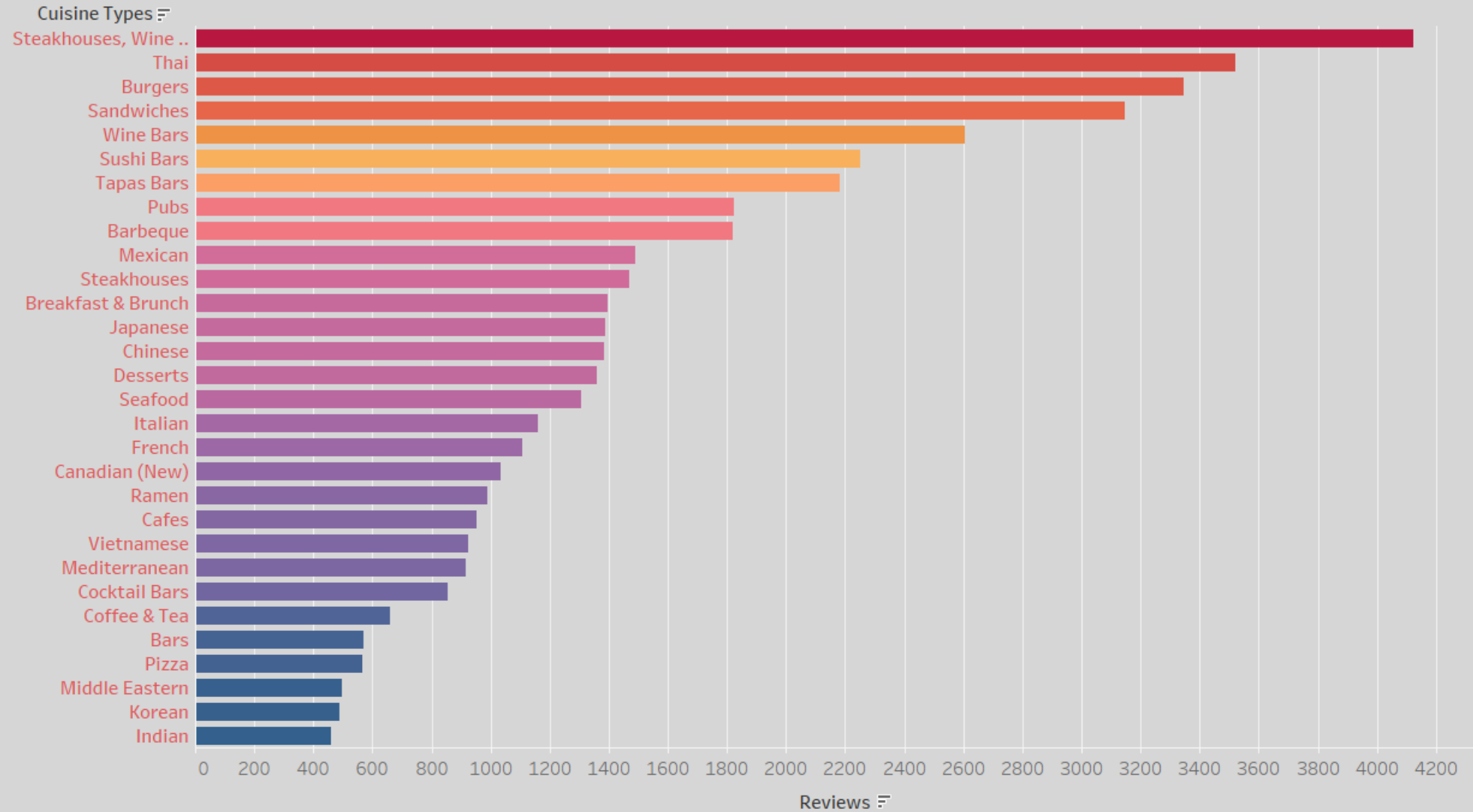
- Detect Meaningful key points and answer relevant questions observed from visualization

Create database in SQLite3 using VSCode

- Create separate tables for each city.



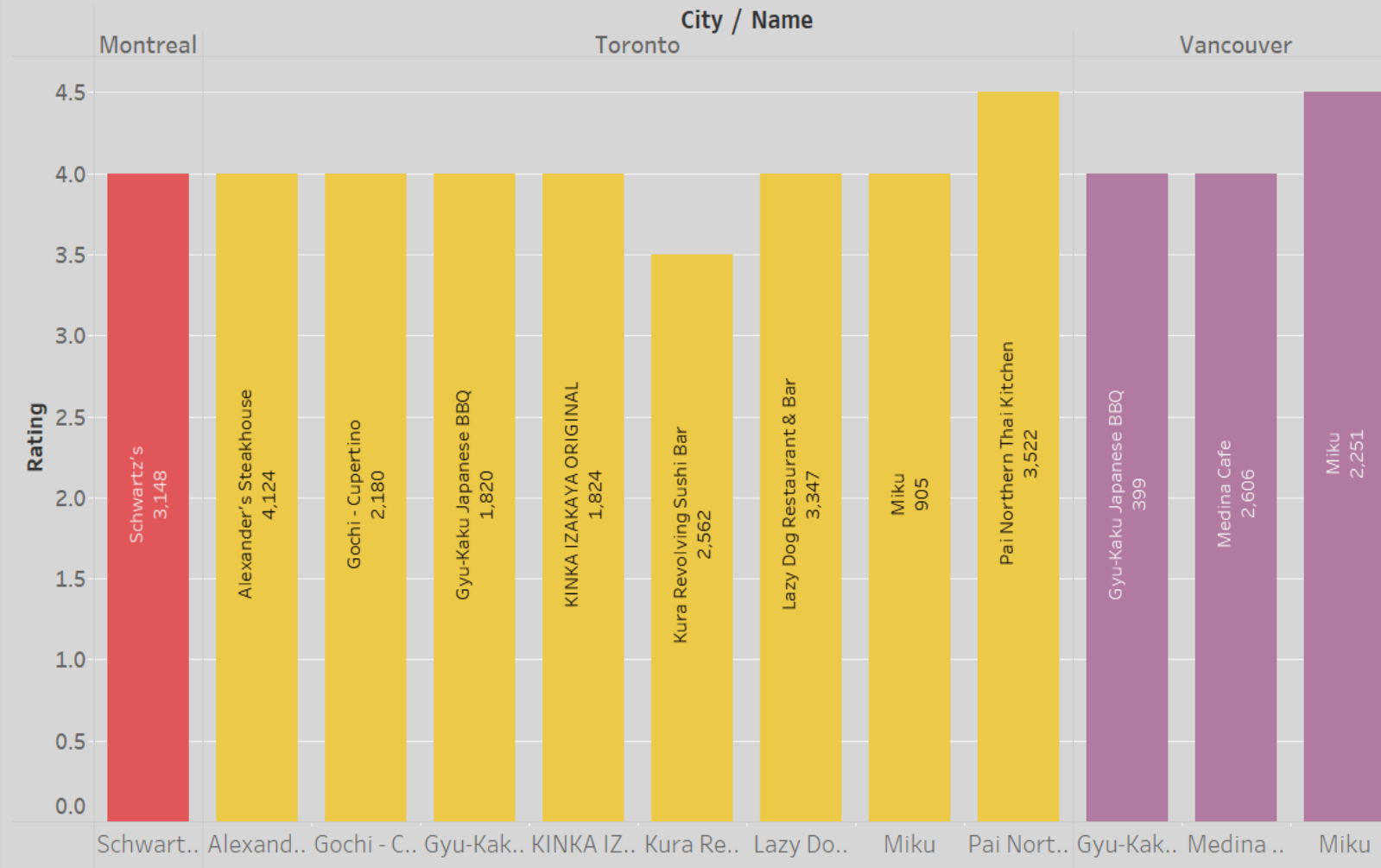
Top rated Cuisine



Cities/Cuisine Type

City	American	Canadian (New)	Chinese	Indian	Italian	Japanese	Korean	Mexican	Thai	Vietnamese
Winnipeg	17	33	43	15	22	21	7	18	10	13
Vancouver	15	38	54	24	47	87	18	12	15	47
Toronto	28	55	71	40	114	99	46	26	31	39
Quebec	6	28	1	4	31	8	2	4	10	5
Ottawa	22	40	27	30	38	10	5	20	15	14
Montreal	10	35	31	28	52	36	8	27	14	36
Edmonton	15	30	21	28	21	27	12	9	5	26
Calgary	15	37	28	31	23	15	12	13	12	35

Top Restaurants

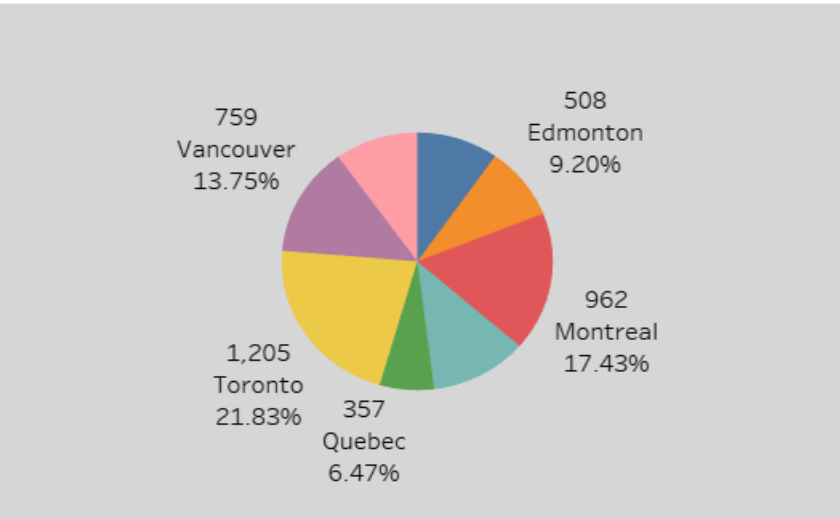


Restaurant Details

Top Restaurant in each city

City	Name	Cuisine Types	Price_Cat..	
Montreal	Schwartz's	Sandwiches	Costly	
Toronto	Alexander's St..	Steakhouses, Wine ..	Luxury	
	Gochi - Cuperti..	Tapas Bars	Costly	
	Gyu-Kaku Japa..	Barbeque	Costly	
	KINKA IZAKAY..	Pubs	Costly	
	Kura Revolvin..	Sushi Bars, Conveyo..	Costly	
	Lazy Dog Rest..	Burgers	Costly	
	Pai Northern T..	Thai	Costly	
Vancouver	Medina Cafe	Wine Bars	Costly	
	Miku	Sushi Bars	Expensive	

Restaurants in each city



City

- ☒ (All)
- ☒ Calgary
- ☒ Edmonton
- ☒ Montreal
- ☒ Ottawa
- ☒ Quebec
- ☒ Toronto
- ☒ Vancouver
- ☒ Winnipeg

Price_Category

- ☐ Affordable
- ☐ Costly
- ☐ Expensive
- ☐ Luxury

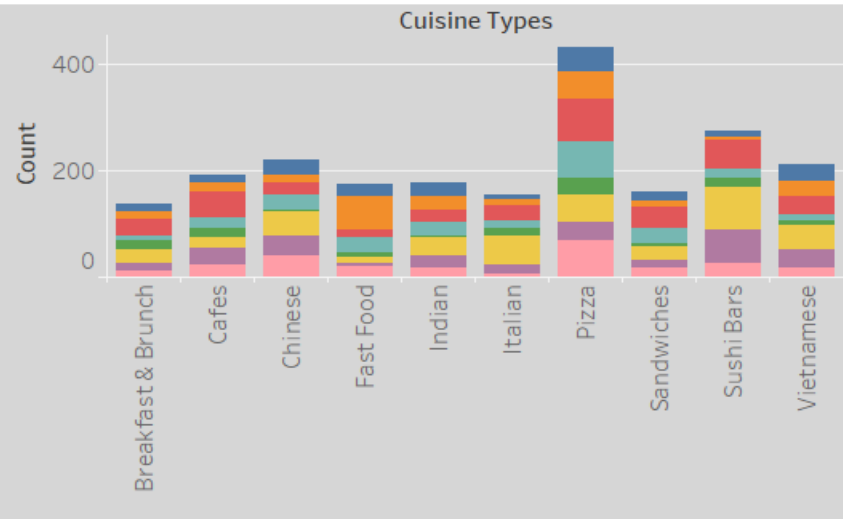
City

(All) ▼

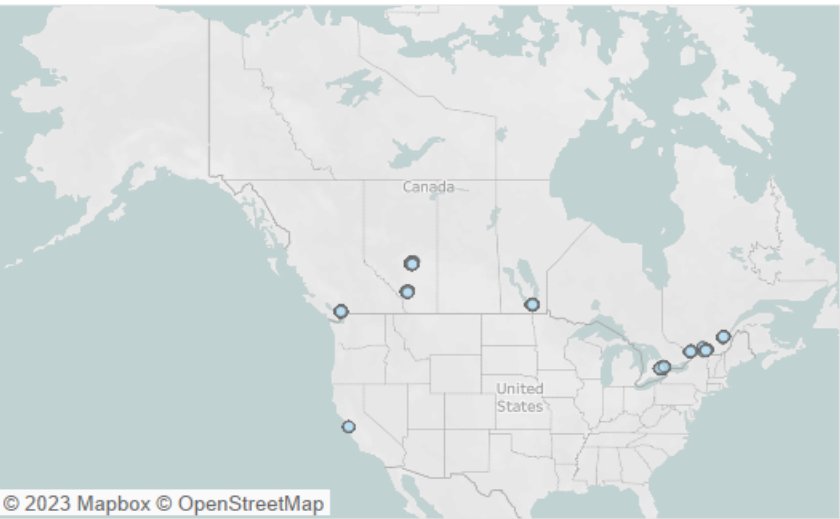
Top Restaurant

10 ▼

Categories/Cuisine Type



Map_Price_category



Results

- **Toronto and Vancouver** has the most popular restaurants based on reviews and rating.
- **Alexander's Steakhouse** is the most Popular restaurant in Canada with more than 4000 reviews and top rating.
- In total '**Pizza outlet**' **count is highest** in Canada following Sushi bars.
- Top categories in Toronto are Italian, Japanese and Chinese
- Majority of restaurants are in 'Affordable Category'

Conclusion:

If you want to open a restaurant in Canada, Toronto and Vancouver will be favorable cities. Pizza outlet with American cuisine type is safe venture to start with. One can start with a food truck or setting up stalls at public events can also help to understand customer response.

Future Goal:

It was high level analysis about all major cities in Canada, to completely understand the dynamics to establish a successful restaurant one would need deep analysis about each city, its population, economy, diversity , etc. This would be my future goal to dive deep about one city and further analyze other aspects of a city.



THANK YOU

