Project -1

Project Title: Analysis and Visualization of Zomato Restaurant Data

Project Objective
This project delves into a comprehensive dataset from Zomato, covering restaurant chains globally. The primary objective is to conduct a thorough descriptive and statistical analysis to uncover trends, patterns, and insights related to the restaurant industry. By addressing specific analytical goals, this project aims to provide actionable insights for restaurateurs and food enthusiasts alike.

Dataset Overview
Sourced from Zomato and Kaggle, the dataset encompasses a wide array of information, including but not limited to the average cost for two, restaurant location, number of votes, aggregate ratings, cuisines offered, and the countries these restaurants are located in. Through meticulous analysis, this project explores various facets such as popular cuisines, pricing strategies of high-end restaurants, country-wise restaurant ratings, and much more.

Analytical Process

Data Preparation
Loading the Raw Data: Utilizing Python libraries such as Numpy and Pandas for efficient data handling.
Data Cleaning: Techniques employed include removing irrelevant columns, eliminating duplicate entries, and refining individual data points to ensure quality and relevance.

Analysis
The project aims to answer pivotal questions such as:
The total count of restaurants and cuisines offered globally.
Countries with the highest number of Zomato-listed restaurants.
Identifying "value for money" restaurants across Indian cities.
The top 10 cuisines in India by the number of votes.
Countries where restaurants provide online delivery services.
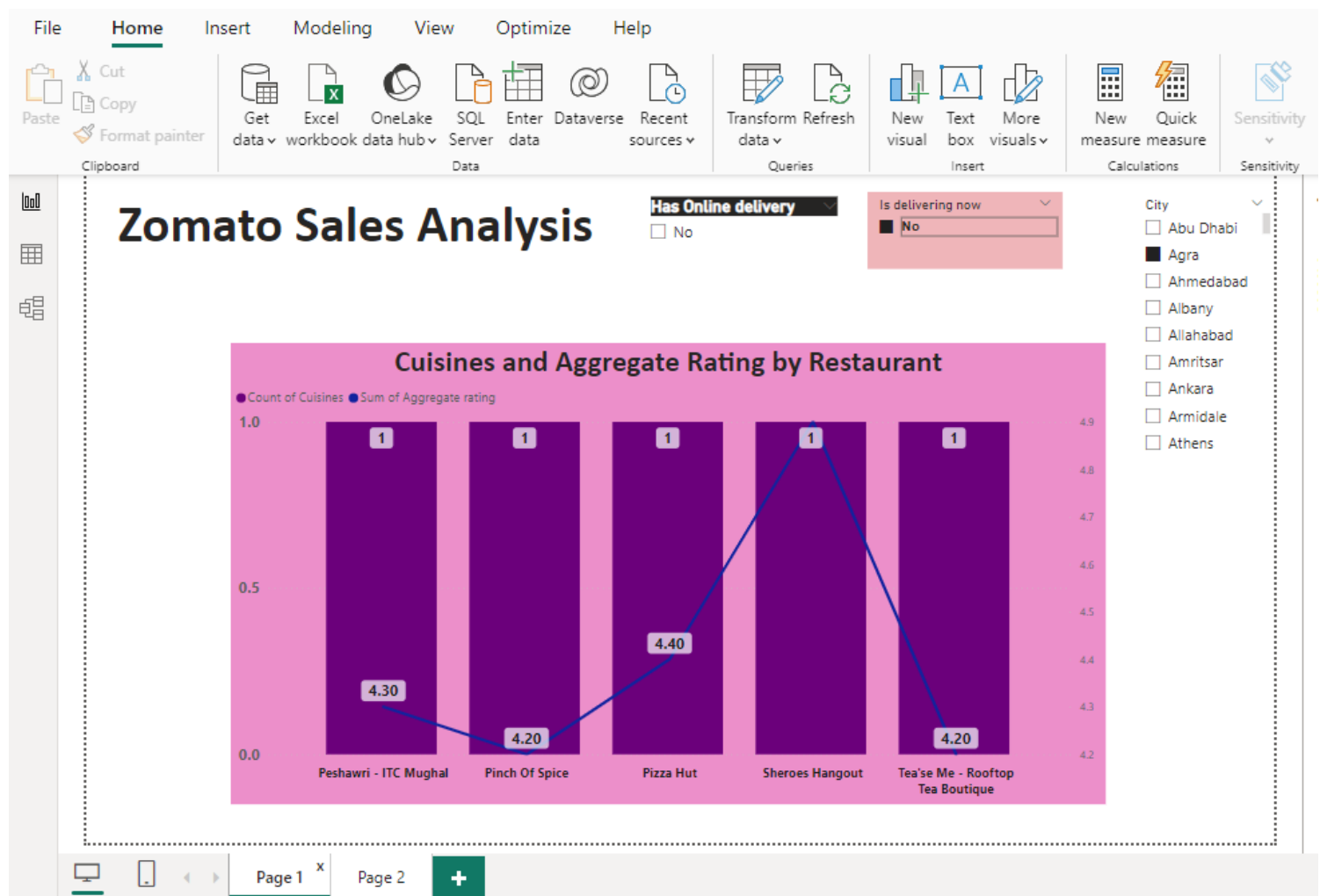Localities with the highest density of restaurants.
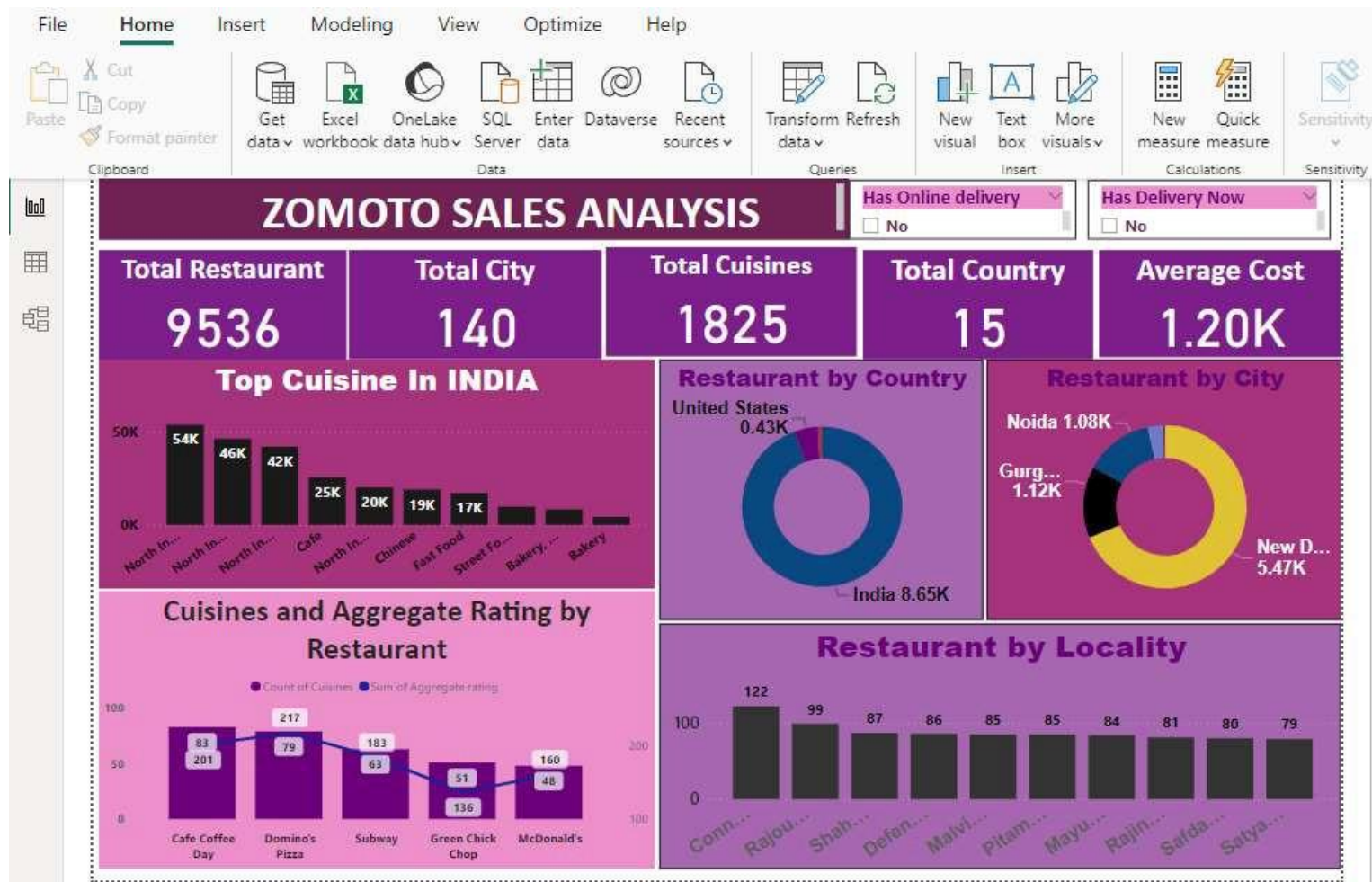
Conclusion and Insights

The analysis reveals key findings such as localities with a high concentration of restaurants, the popularity of online delivery services, and the average ratings across different countries. Recommendations for restaurant owners include enhancing quality, incorporating online delivery and table booking services, and diversifying cuisine offerings to attract a broader customer base. Additionally, the study provides valuable filters for consumers to make informed dining decisions based on cost, ratings, and cuisine preferences.

Key Takeaway

This project not only showcases the power of data analysis in understanding consumer preferences and industry trends but also demonstrates the effectiveness of interactive dashboards in making data-driven insights accessible to a wider audience.

Screenshots of the Project 1

ZOMOTO SALES ANALYSIS

Has Online delivery ☐ No
Has Delivery Now ☐ No

Total Restaurant	Total City	Total Cuisines	Total Country	Average Cost
9536	140	1825	15	1.20K

Top Cuisine In INDIA

54K · 46K · 42K · 25K · 20K · 19K · 17K
North In... · North In... · North In... · Cafe · North In... · Chinese · Fast Food · Street Fo... · Bakery,... · Bakery

Restaurant by Country

United States 0.43K
India 8.65K

Restaurant by City

Noida 1.08K
Gurg... 1.12K
New D... 5.47K

Cuisines and Aggregate Rating by Restaurant

● Count of Cuisines ● Sum of Aggregate rating

	Cafe Coffee Day	Domino's Pizza	Subway	Green Chick Chop	McDonald's
	217 / 83 / 201	79	183 / 63	51 / 136	160 / 48

Restaurant by Locality

122 · 99 · 87 · 86 · 85 · 85 · 84 · 81 · 80 · 79
Conn... · Rajou... · Shah... · Defen... · Malvi... · Pitam... · Mayu... · Rajin... · Safda... · Satya...

Column tools (table view)

Name: Has Table booking
Data type: Text
Format: Text
Summarization: Don't summarize
Data category: Uncategorized

Colu	Restaurant Nan	City	Address	Locality	Cuisines	Average Co	Currency	Has	Has Onlin	Is delive	Price	Aggreg	Rating color	Rating text	Votes	Coun
2620	Tandoori Kebab	New Delhi	356 Narmada, Alai	Alaknanda	North Indian	400	Indian Rupees(Rs.)	No	No	No	1	0	White	Not rated	0	Inc
2723	Puran Dhaba	New Delhi	Shop J-11/11, San;	Ashok Vihar Ph	North Indian	200	Indian Rupees(Rs.)	No	No	No	1	0	White	Not rated	0	Inc
2724	Rama Desi Ghee Me	New Delhi	IA, Block 10 C, Ash	Ashok Vihar Ph	North Indian	650	Indian Rupees(Rs.)	No	No	No	2	0	White	Not rated	0	Inc
2896	Punjabi Chicken	New Delhi	9, Babu Market, Fu	Chandni Chowi	North Indian	400	Indian Rupees(Rs.)	No	No	No	1	0	White	Not rated	0	Inc
2950	Baba Chicken Ludhi	New Delhi	K 1/38, EPDP Main	Chittaranjan Pa	North Indian	400	Indian Rupees(Rs.)	No	No	No	1	0	White	Not rated	0	Inc
2975	Punjabi Flavour	New Delhi	5, Khaibar Pass, Ci	Civil Lines	North Indian	100	Indian Rupees(Rs.)	No	No	No	1	0	White	Not rated	0	Inc
3161	Anupam Jalpan	New Delhi	Ansari Road, Darye	Daryaganj	North Indian	200	Indian Rupees(Rs.)	No	No	No	1	0	White	Not rated	0	Inc
3162	Aunty's Kitchen	New Delhi	Shop 7 & 8, Golch	Daryaganj	North Indian	100	Indian Rupees(Rs.)	No	No	No	1	0	White	Not rated	0	Inc
3164	Delhi 6 Foods	New Delhi	3787, Netaji Subha	Daryaganj	North Indian	300	Indian Rupees(Rs.)	No	No	No	1	0	White	Not rated	0	Inc
3165	Fry Centre	New Delhi	5035, Netaji Subha	Daryaganj	North Indian	200	Indian Rupees(Rs.)	No	No	No	1	0	White	Not rated	0	Inc
3169	Kaushal Dhaba	New Delhi	Opposite Delite Ci	Daryaganj	North Indian	150	Indian Rupees(Rs.)	No	No	No	1	0	White	Not rated	0	Inc
3172	Negi Restaurant	New Delhi	3454, Near Mothe	Daryaganj	North Indian	150	Indian Rupees(Rs.)	No	No	No	1	0	White	Not rated	0	Inc
3176	Rajdhani Restaurant	New Delhi	Netaji Subhash Ma	Daryaganj	North Indian	400	Indian Rupees(Rs.)	No	No	No	1	0	White	Not rated	0	Inc