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Project Report

On

Zomato Restaurants Analysis

Submitted By:

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Section: 23MAM2 – A

Subject - Data Analytics (23CAH – 725)



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1. Introduction

The Zomato Restaurants Analysis project aims to provide a comprehensive analysis of restaurant data sourced from Zomato, a leading online platform for discovering and reviewing restaurants. This report presents a detailed overview of the project objectives, methodologies, analysis findings, implications, and conclusions.

2. About Zomato

Zomato is a popular online platform that provides information about restaurants, including location, ratings, reviews, menus, and photos. It operates in multiple countries and has a vast database of restaurants, making it a valuable resource for diners and restaurant owners alike.

3. Overview

The project involves in-depth analysis of Zomato restaurant data using various tools and techniques including Excel, SQL, Power BI, and Tableau. The objective is to gain insights into restaurant industry trends related to location, opening trends, ratings, and price ranges.

4. Objectives

The main objectives of the project are:

- Develop a comprehensive Country Map Table.
- Construct a Calendar Table utilizing the Column Datekey.
- Determine the Number of Restaurants based on City and Country.
- Calculate the Number of Restaurants opening based on Year, Quarter, and Month.
- Compute the Count of Restaurants based on Average Ratings.
- Generate buckets based on the Average Price and determine the quantity of restaurants falling into each bucket.
- Analyze the Percentage of Restaurants with table booking and online delivery.
- Develop Charts based on Cuisines, City, and Ratings.

5. Data Sources

The primary data source for this project is Zomato, which provides detailed information about restaurants, including location, ratings, price range, and amenities. Additional data sources may include public datasets or supplementary data collected from other sources.

6. Methodology

The methodology involves:

- Data extraction and cleaning using Excel and SQL.
- Analysis using advanced Excel functions and SQL queries.
- Visualization using Power BI and Tableau to create interactive dashboards and visualizations.



7. Analysis and Findings

Excel Analysis

- Utilized advanced Excel functions for data cleaning, manipulation, and visualization.
- Developed charts and graphs to visualize restaurant data by location, ratings, price range, and cuisine.
- Conducted statistical analysis to identify trends and patterns in the data.

Restaurant	Restaurant	Country	City	Address	Locality	Locality	Longitude	Latitude	Cuisines	Currency	Has_Table	Has_Online	Is_Deliver	Switch_to	Price_Ran	Notes	Average_Rating	Datekey_Opening	Cuisines 1	Cuisines 2	Cuisines 3	Cuisines 4	Cuisines 5	Cuisines 6	Cuisines 7	Cuisines 8
1.8E+07	Punjabi's	1	New Delhi	13/288	1	Geeta Coli	Geeta Coli	77.2768	28.6508	North Indian	Ru	No	No	No	1	0	300	1	2013_9_21	North Indian						
1.8E+07	Tasty Tamr	1	New Delhi	726/2	1	Jhe Geeta Coli	Geeta Coli	77.2751	28.6582	North Indian	Ru	No	No	No	1	0	200	1	2016_9_10	North Indian						
1.8E+07	Taste of Sj	1	New Delhi	C-222	1	Lajpat Naj	Lajpat Naj	77.2413	28.5783	North Indian	Ru	No	No	No	1	0	400	1	2018_9_25	North Indian						
1.8E+07	Kolkata B	1	New Delhi	Galli 7	1	Me Mahipal	Mahipal	77.1239	28.5436	North Indian	Ru	No	No	No	1	0	100	1	2018_9_6	North Indian						
1.8E+07	Sunil Punj	1	New Delhi	Galli 7	1	Main Vasi	Mahipal	77.1297	28.5414	North Indian	Ru	No	No	No	1	0	150	1	2013_9_17	North Indian						
1.8E+07	Bikaner R	1	New Delhi	Shop 264	1	Mukherjei	Mukherjei	77.2081	28.6996	North Indian	Ru	No	No	No	1	0	100	1	2018_9_3	North Indian						
312413	Just In	1	New Delhi	G-103	1	Va Mukherjei	Mukherjei	77.2191	28.7095	North Indian	Ru	No	No	No	1	0	200	1	2011_9_16	North Indian						
303497	Shri Shyar	1	New Delhi	Khairi	1	Me Najafgarh	Najafgarh	76.9749	28.6113	North Indian	Ru	No	No	No	1	0	150	1	2014_9_21	North Indian						
1.8E+07	Shree Bho	1	New Delhi	Sarai	1	Jule New Frien	New Frien	77.2728	28.5608	North Indian	Ru	No	No	No	1	0	100	1	2012_9_9	North Indian						
1.8E+07	Baba Ka C	1	New Delhi	WZ-425	1	N Palam	Palam	77.0903	28.5829	North Indian	Ru	No	No	No	1	0	200	1	2014_9_21	North Indian						
1.8E+07	Kaka Da C	1	New Delhi	R.K. Pura	1	R K Pura	R K Pura	77.1741	28.5772	North Indian	Ru	No	No	No	1	0	100	1	2012_9_24	North Indian						
1.8E+07	Famous P	1	New Delhi	44	1	Galli N Vasundha	Vasundha	77.3085	28.5894	North Indian	Ru	No	No	No	1	0	50	1	2014_9_20	North Indian						
1.8E+07	Garam M	1	New Delhi	1002	1	Gur Defence	Defence	77.2254	28.5729	North Indian	Ru	No	No	No	1	0	300	1	2013_8_10	North Indian						
1.8E+07	Zaika-E-Ci	1	New Delhi	Near Polli	1	Dilshad G	Dilshad G	77.3082	28.6779	North Indian	Ru	No	No	No	1	0	250	1	2010_8_20	North Indian						
1.8E+07	Tandoori	1	New Delhi	22	1	Samm Jangpura	Jangpura	77.2448	28.5832	North Indian	Ru	No	No	No	1	0	400	1	2017_8_24	North Indian						
1.8E+07	Tinker Kok	1	New Delhi	Jangpura	1	Jangpura	Jangpura	77.2475	28.584	North Indian	Ru	No	No	No	1	0	300	1	2013_8_15	North Indian						
7362	Vaishno C	1	New Delhi	Badam Sir	1	Mahipal	Mahipal	77.1123	28.5451	North Indian	Ru	No	No	No	1	0	200	1	2010_8_24	North Indian						
1.8E+07	Desi Thak	1	New Delhi	14/1	1	Indi Mukherjei	Mukherjei	77.2091	28.7147	North Indian	Ru	No	No	No	1	0	300	1	2015_8_13	North Indian						
1.8E+07	Haryana E	1	New Delhi	G 26	1	Varc Mukherjei	Mukherjei	77.2187	28.7092	North Indian	Ru	No	No	No	1	0	100	1	2011_8_24	North Indian						
1.8E+07	Karol Bag	1	New Delhi	Opposite	1	Najafgarh	Najafgarh	76.989	28.5996	North Indian	Ru	No	No	No	1	0	150	1	2017_8_21	North Indian						
1.8E+07	Bala Ji Ra	1	New Delhi	A-18	1	Nari Nanglo	Nanglo	77.0625	28.6758	North Indian	Ru	No	No	No	1	0	350	1	2012_8_9	North Indian						
1.8E+07	Best Chick	1	New Delhi	Main Roh	1	Nanglo	Nanglo	77.0689	28.6824	North Indian	Ru	No	No	No	2	0	650	1	2010_8_4	North Indian						
1.8E+07	Avatar Da	1	New Delhi	Ring Road	1	Naraina	Naraina	77.1365	28.6205	North Indian	Ru	No	No	No	1	0	200	1	2017_8_13	North Indian						
1.8E+07	Curry Ma	1	New Delhi	G-181	1	Na Naraina	Naraina	0	0	North Indian	Ru	No	No	No	1	0	200	1	2016_8_6	North Indian						
1.8E+07	Delicious	1	New Delhi	Shop 2 &	1	Nehru Pla	Nehru Pla	77.2511	28.5472	North Indian	Ru	No	No	No	1	0	400	1	2013_8_24	North Indian						
1.8E+07	Massi's K	1	New Delhi	494	1	Gane Pandav Ni	Pandav Ni	77.2858	28.6339	North Indian	Ru	No	No	No	1	0	200	1	2014_8_6	North Indian						
1.8E+07	Roll Junct	1	New Delhi	F 205 &	1	2/Pandav Ni	Pandav Ni	0	0	North Indian	Ru	No	No	No	1	0	150	1	2010_8_8	North Indian						
1.8E+07	Amritsari	1	New Delhi	QU-1	1	Pita Pitampuri	Pitampuri	77.1417	28.7122	North Indian	Ru	No	No	No	1	0	200	1	2016_8_3	North Indian						
1.8E+07	Parantha	1	New Delhi	Geeta Coli	1	Geeta Coli	Geeta Coli	0	0	North Indian	Ru	No	No	No	1	0	100	1	2018_7_26	North Indian						
1.8E+07	Satnam f	1	New Delhi	101 A	1	Pre Mayur Vii	Mayur Vii	0	0	North Indian	Ru	No	No	No	1	0	300	1	2011_7_18	North Indian						
1.8E+07	The Deshi	1	New Delhi	SFS Flats	1	Mayur Vii	Mayur Vii	77.3391	28.608	North Indian	Ru	No	No	No	2	0	500	1	2018_7_28	North Indian						
1.8E+07	Syall Kotli	1	New Delhi	A-201	1	Ne Moti Nagt	Moti Nagt	0	0	North Indian	Ru	No	No	No	2	0	500	1	2017_7_22	North Indian						
1.8E+07	Jyoti Dhat	1	New Delhi	Opposite	1	Mukherjei	Mukherjei	77.2187	28.71	North Indian	Ru	No	No	No	1	0	150	1	2011_7_4	North Indian						
304610	Sangeeta f	1	New Delhi	Plot 4	1	Na Najafgarh	Najafgarh	77.0077	28.6164	North Indian	Ru	No	No	No	1	0	300	1	2013_7_13	North Indian						
1.8E+07	Little Delh	1	New Delhi	Opposite	1	R K Pura	R K Pura	77.1762	28.566	North Indian	Ru	No	No	No	2	0	500	1	2011_7_13	North Indian						
1.8E+07	Ok Indian	1	New Delhi	Shop A R2	1	R K Pura	R K Pura	77.1004	28.6091	North Indian	Ru	No	No	No	1	0	200	1	2011_7_3	North Indian						
1.8E+07	Foodies	1	New Delhi	Shop 21	1	Sainik Far	Sainik Far	77.2047	28.5145	North Indian	Ru	No	No	No	1	0	350	1	2014_7_20	North Indian						
1.8E+07	Star Resta	1	New Delhi	Westend	1	Sainik Far	Sainik Far	77.1986	28.5178	North Indian	Ru	No	No	No	1	0	100	1	2014_7_2	North Indian						
1.8E+07	Punjabi F	1	New Delhi	5	1	Khaiba Civil Line	Civil Line	77.2212	28.692	North Indian	Ru	No	No	No	1	0	100	1	2014_6_16	North Indian						
1.8E+07	Anupam i	1	New Delhi	Ansari	1	No Daryagan	Daryagan	77.2436	28.6451	North Indian	Ru	No	No	No	1	0	200	1	2018_6_23	North Indian						
1.8E+07	Asia	1	New Delhi	Main Mar	1	Dilshad G	Dilshad G	77.3195	28.6804	North Indian	Ru	No	No	No	2	0	500	1	2010_6_20	North Indian						
1.8E+07	Peshawar	1	New Delhi	Shop 4	1	Pl Gujranwa	Gujranwa	77.1921	28.699	North Indian	Ru	No	No	No	1	0	400	1	2017_6_15	North Indian						
1.8E+07	All About	1	New Delhi	E 137	1	Ga Hauz Khat	Hauz Khat	77.2094	28.5605	North Indian	Ru	No	No	No	1	0	100	1	2015_6_5	North Indian						
1.8E+07	Breakfast	1	New Delhi	29	1	Satnam Krishna N	Krishna N	77.2822	28.6555	North Indian	Ru	No	No	No	1	0	200	1	2012_6_10	North Indian						
1.8E+07	Shri Ram i	1	New Delhi	Shop 18	1	Lajpat Naj	Lajpat Naj	77.2423	28.5755	North Indian	Ru	No	No	No	1	0	200	1	2015_6_18	North Indian						
1.8E+07	The Cellac	1	New Delhi	C-53/54	1	Lajpat Naj	Lajpat Naj	0	0	North Indian	Ru	No	No	No	2	0	500	1	2013_6_15	North Indian						
8033	Tip Top Ea	1	New Delhi	A 55 &	1	56 Mayur Vii	Mayur Vii	77.3093	28.5905	North Indian	Ru	No	No	No	1	0	100	1	2018_6_27	North Indian						
1.8E+07	K.D Corne	1	New Delhi	B-65	1	East Mayur Vii	Mayur Vii	77.3094	28.6237	North Indian	Ru	No	No	No	1	0	300	1	2018_6_25	North Indian						



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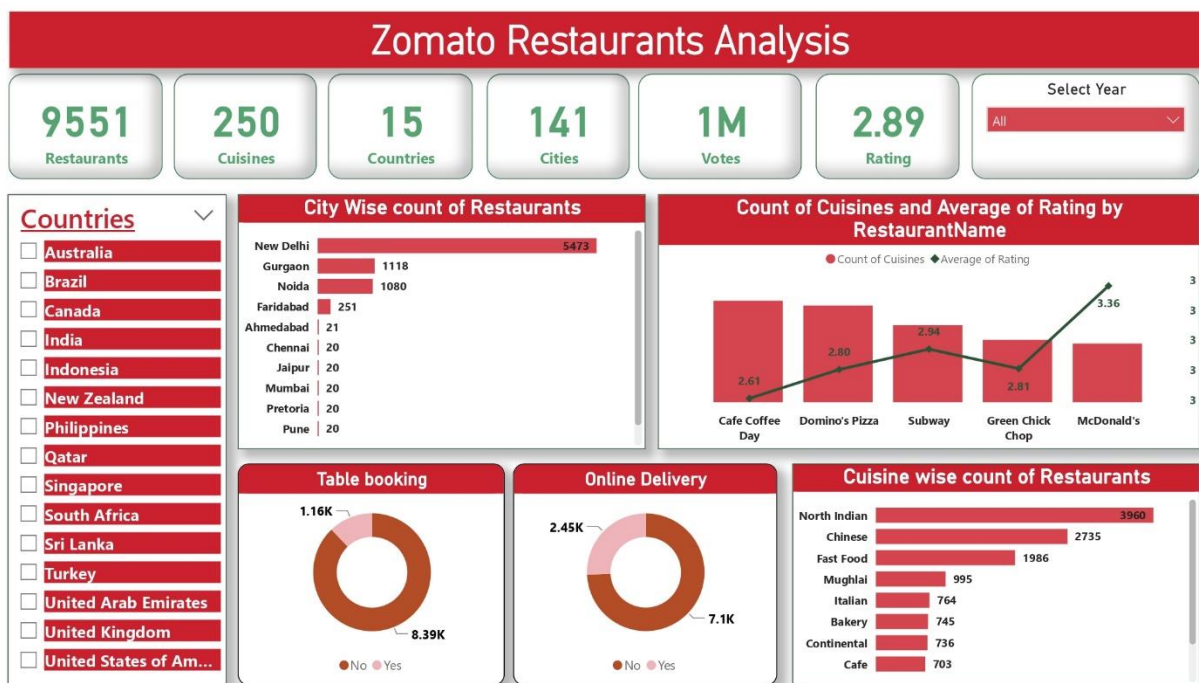
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Grand Total	9551

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94	Indonesia					
148	New Zealand					
162	Philippines					
166	Qatar					
184	Singapore					
189	South Africa					
191	Sri Lanka					
208	Turkey					
214	United Arab Emirates					
215	United Kingdom					
216	United States of America					

Power BI Report

- Created interactive dashboards in Power BI to visualize and analyze Zomato restaurant data.
- Developed visualizations to explore trends in restaurant location, ratings, price range, and cuisine.
- Implemented slicers, filters, and drill-down functionality for interactive exploration of the data.



8. Implications

The insights generated from this analysis have significant implications for stakeholders within the restaurant industry. These include:

- Identifying popular restaurant locations and cuisines.
- Understanding opening trends and seasonal variations.



- Analyzing customer preferences and satisfaction levels.
- Informing marketing strategies, menu planning, and business expansion decisions.

9. Conclusion

In conclusion, the Zomato Restaurants Analysis project provides valuable insights into the restaurant industry landscape. By leveraging advanced analytics techniques and visualization tools, we have gained valuable insights that can inform decision-making and strategy development within the industry. The detailed analysis and visualizations presented in this report offer a comprehensive understanding of restaurant trends and customer preferences, paving the way for data-driven decision-making in the restaurant industry.

10. Appendices

- Appendix A: Screenshots of Excel Analysis
- Appendix B: SQL Queries
- Appendix C: Power BI Dashboards
- Appendix D: Tableau Visualizations
- Appendix E: Raw Data Sets



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