Zomato Restaurant Data Visualization

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Author Note

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GOALS:

1. How many Zomato restaurants are there in each country?
2. Finding out count of Zomato restaurants in each Country with specific ratings?
3. Which Restaurant provides Indian Cuisine?
4. What are the restaurants that are present near to me with 5-star rating?
5. Which restaurant provides online delivery options near me with 5-star rating and minimum average cost per two?
6. Which city has best Chinese cuisine in India?
7. Check whether Barbeque nation has Table booking option or not?
8. To check if a restaurant has multiple branches in other countries?
9. Check the popularity of each restaurant branches in all countries or states?
10. What are the restaurants near me with table booking, online delivery options, order menu, having reasonable cost and having highest rating?

PIVOT TABLES & PIVOT CHARTS:

* A **pivot table** can be used to summarize data, and it is a potent tool that can be used in times of processing information.

**Applications**:

Pivot tables can be used to shorten the data, sorting out data, organize data, count the occurrences of particular details, total and average data stored in a database. It gives access to data fields to show them in rows or in columns based on the need of the user.

* A Pivot chart help in the representation of large amounts of unprocessed raw data, giving it a meaningful form. In Pivot charts, we can organize and summarize data containing thousands of records.

**Applications**:

It gives many applications like there is Field Name for choosing which data to be shown on pivot chart, and there are Filters, Legends, and Axis controls for choosing which values should be on the x-axis and values field to show the y-axis is. There are also 3D maps that can help in explaining the data that is relevant to the world.

ANSWERS TO GOALS:

1. How many Zomato restaurants are there in each country?

A screenshot of a computer

Description automatically generated

* Here I found Count of Zomato Restaurants that were present in each country after Data Cleaning. There were 9551 Restaurants out of which Maximum of 8652 restaurants were present only in “India” and Minimum of 4 Restaurants were present in Canada. I have used slicers and 3D map for better understanding of Pivot table and Pivot chart.

1. Finding out count of Zomato restaurants in each Country with specific ratings?

A screenshot of a social media post

Description automatically generated

* Here I wanted to find highest rated Zomato restaurants count in each country , and I found that India is leading the chart board with 116 restaurants having 5 star rating, which gives 1.34% of the total restaurants in India that is 8652 restaurants are best.

With the help of Zomato Restaurant Data I have made the below Entity Relationship Diagram.

A picture containing screenshot

Description automatically generated

Observations:

1. Each country can have one or more restaurants.
2. One or more restaurants are present in only one country.
3. Restaurants may have zero or only one rating in between 1 to 5.
4. Only one rating between 1 to 5 is given to each restaurant.
5. Every restaurant has one or more cuisines.
6. One or more cuisines may belong to one or more restaurants.
7. Restaurants may have one or more address as they may have branches in different localities.
8. Every restaurant address belongs to only one restaurant.

RapidMiner

Installing Rapid Miner into my Mac System was rather difficult. The steps provided by the professor was precise to the point and were easy to follow. The login link took me to the login page where I found the link to register. After registering I got a verification email to the email provided by me. After Verifying I was directed to the page that contained different functions. I went to downloads and choose Mac as I wanted to download dmg file. After Downloading, I started to install then run the program and copy the file icon into the Applications folder for easy access. Now, I can confidently tell that I have success fully installed Rapid miner into my System.

# Tutorial Videos Experience:

# In the tutorials I have learnt to use the operators, Repository, Process panels, Views, Global Search, functionality of parts, parameters and Help.

# Different areas in operators that I went through is:

# Data Access

# Blending

# Cleansing

# Modeling

# Scoring

# Validation

# Utility

# Extensions

# Learnt the use of dragging objects into the design.

# Parameters in order to select Titanic data set and running it using ports for connection.

# I created some repositories and used views and eventually had to use Default view as I got mixed up.

# Adding and removing extensions, working with Rapid miner Market place

# Importing Data

# Visualizing Data

# Connecting Databases.

# 

References:

* [RapidMiner.inc]. (Sep 21,2017). Getting started with Rapid Miner. Referenced From: <https://www.youtube.com/playlist?list=PLssWC2d9JhOZLbQNZ80uOxLypglgWqbJA>
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* [Microsoft]. Create a pivot table to analyze worksheet data. Referenced From: <https://support.office.com/en-us/article/create-a-pivottable-to-analyze-worksheet-data-a9a84538-bfe9-40a9-a8e9-f99134456576>
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