Low Level Design

Analyzing Swiggy: Bangalore delivery outlet data

Author :Rutuja Jadhav

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INDEX

S.NO.	Title	Page No.
1	Problem Statement	3
2	Scope	3
3	Architecture	3 - 4
4	Data Description	5
5	Connect Data to Power BI	6

LOW LEVEL DESIGN

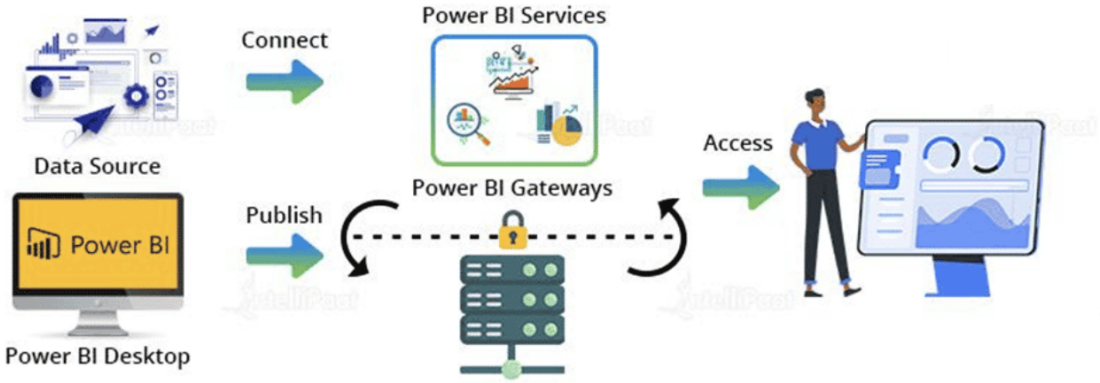
❖ Problem Statement:

The online food ordering market includes foods prepared by restaurants, prepared by independent people, and groceries being ordered online and then picked up or delivered. The first online food ordering service, World Wide Waiter (now known as Waiter.com), was founded in 1995. Online food ordering is the process of ordering food from a website or other application. The product can be either ready-to-eat food or food that has not been specially prepared for direct consumption.

❖ Scope:

Low-level design (LLD) is a component-level design process that follows a step-by step refinement process. This process can be used for designing data structures, required software architecture, source code and ultimately, performance algorithms. Overall, the data organization may be defined during requirement analysis and then refined during data design work. This study demonstrates how different analyses help out to make better business decisions and help analyze customer trends and satisfaction, which can lead to new and better products and services.

❖ Architecture:



LOW LEVEL DESIGN

- **Power Query:**
  Power Query is the data transformation and mash up the engine. It enables you to discover, connect, combine, and refine data sources to meet your analysis need. It can be downloaded as an add-in for Excel or can be used as part of the Power BI Desktop.

- **Power Pivot:**
  Power Pivot is a data modeling technique that lets you create data models, establish relationships, and create calculations. It uses Data Analysis Expression (DAX) language to model simple and complex data.

- **Power View:**
  Power View is a technology that is available in Excel, Sharepoint, SQL Server, and Power BI. It lets you create interactive charts, graphs, maps, and other visuals that bring your data to life. It can connect to data sources and filter data for each data visualization element or the entire report.

- **Power Map:**
  Microsoft's Power Map for Excel and Power BI is a 3-D data visualization tool that lets you map your data and plot more than a million rows of data visually on Bing maps in 3-D format from an Excel table or Data Model in Excel. Power Map works with Bing maps to get the best visualization based on latitude, longitude, or country, state, city, and street address information.

- **Power BI Desktop:**
  Power BI Desktop is a development tool for Power Query, Power Pivot, and Power View. With Power BI Desktop, you have everything under the same solution, and it is easier to develop BI and data analysis experience.

- **Power BI Service:**
  Power BI service is the Software as a Service (SaaS) part of Power BI. It is also known as Power BI Online. To access Power BI Service, you need to log in to Power BI service.

- **Power Q&A:**
  The Q&A feature in Power BI lets you explore your data in your own words. It is the fastest way to get an answer from your data using natural language. An example could be what was the total sales last year? Once you've built your data model and deployed that into the Power BI website, then you can ask questions and get answers quickly.

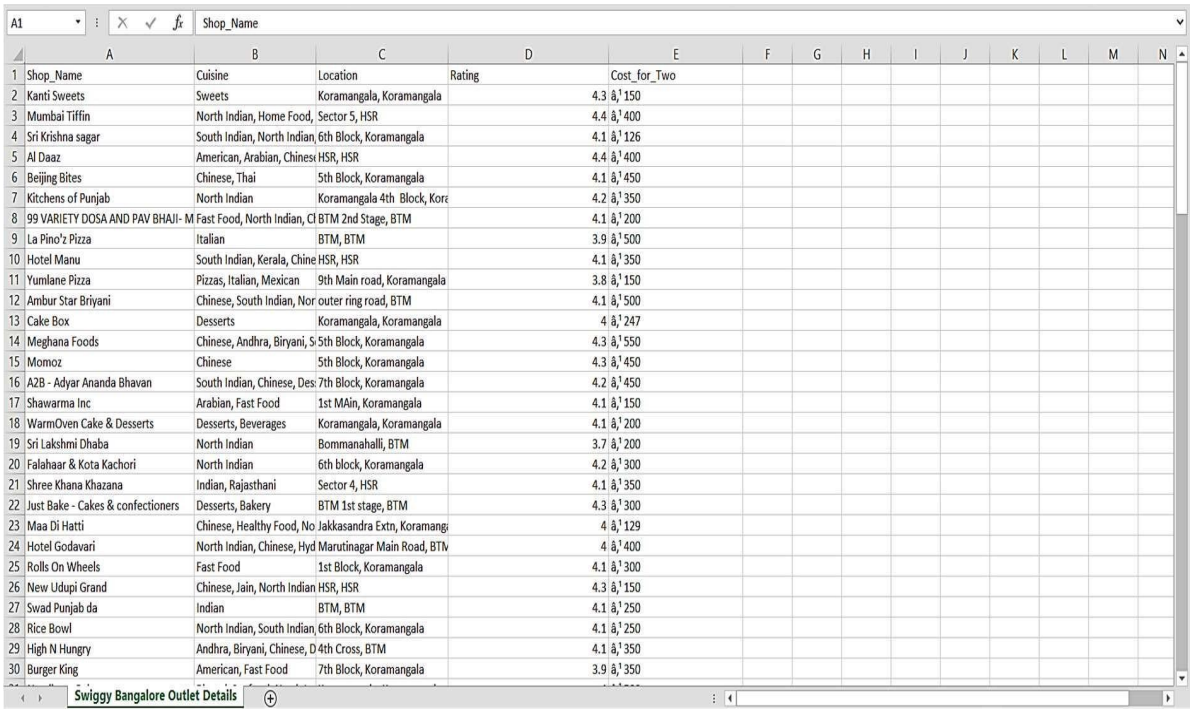
LOW LEVEL DESIGN

❖ Data Description:

As we have seen earlier, in our Swiggy dataset, we have around 118 records with 5 different features. Features are distributed as 2 Continuous features and 3 Categorical features. These datasets are given in the form of Comma Separated Value (.csv) format.

Features: -

1. **Shop_Name** = name of the shop and its data type is text
2. **Cuisine** = Food name which are available in shop and its data type is text
3. **Location** = Location where shops are located and its data type is text
4. **Rating =** It's a rating of shop and its data type is numeric
5. **Cost_of_two =** It is a cost of two Cuisine and its data type is numeric



A1 | Shop_Name

	A	B	C	D	E
1	Shop_Name	Cuisine	Location	Rating	Cost_for_Two
2	Kanti Sweets	Sweets	Koramangala, Koramangala	4.3	â‚¹150
3	Mumbai Tiffin	North Indian, Home Food,	Sector 5, HSR	4.4	â‚¹400
4	Sri Krishna sagar	South Indian, North Indian,	6th Block, Koramangala	4.1	â‚¹126
5	Al Daaz	American, Arabian, Chines	HSR, HSR	4.4	â‚¹400
6	Beijing Bites	Chinese, Thai	5th Block, Koramangala	4.1	â‚¹450
7	Kitchens of Punjab	North Indian	Koramangala 4th Block, Kora	4.2	â‚¹350
8	99 VARIETY DOSA AND PAV BHAJI- M	Fast Food, North Indian, Cl	BTM 2nd Stage, BTM	4.1	â‚¹200
9	La Pino'z Pizza	Italian	BTM, BTM	3.9	â‚¹500
10	Hotel Manu	South Indian, Kerala, Chine	HSR, HSR	4.1	â‚¹350
11	Yumlane Pizza	Pizzas, Italian, Mexican	9th Main road, Koramangala	3.8	â‚¹150
12	Ambur Star Briyani	Chinese, South Indian, Nor	outer ring road, BTM	4.1	â‚¹500
13	Cake Box	Desserts	Koramangala, Koramangala	4	â‚¹247
14	Meghana Foods	Chinese, Andhra, Biryani, S	5th Block, Koramangala	4.3	â‚¹550
15	Momoz	Chinese	5th Block, Koramangala	4.3	â‚¹450
16	A2B - Adyar Ananda Bhavan	South Indian, Chinese, Des	7th Block, Koramangala	4.2	â‚¹450
17	Shawarma Inc	Arabian, Fast Food	1st MAin, Koramangala	4.1	â‚¹150
18	WarmOven Cake & Desserts	Desserts, Beverages	Koramangala, Koramangala	4.1	â‚¹200
19	Sri Lakshmi Dhaba	North Indian	Bommanahalli, BTM	3.7	â‚¹200
20	Falahaar & Kota Kachori	North Indian	6th block, Koramangala	4.2	â‚¹300
21	Shree Khana Khazana	Indian, Rajasthani	Sector 4, HSR	4.1	â‚¹350
22	Just Bake - Cakes & confectioners	Desserts, Bakery	BTM 1st stage, BTM	4.3	â‚¹300
23	Maa Di Hatti	Chinese, Healthy Food, No	Jakkasandra Extn, Koramang	4	â‚¹129
24	Hotel Godavari	North Indian, Chinese, Hyd	Marutinagar Main Road, BTM	4	â‚¹400
25	Rolls On Wheels	Fast Food	1st Block, Koramangala	4.1	â‚¹300
26	New Udupi Grand	Chinese, Jain, North Indian	HSR, HSR	4.3	â‚¹150
27	Swad Punjab da	Indian	BTM, BTM	4.1	â‚¹250
28	Rice Bowl	North Indian, South Indian,	6th Block, Koramangala	4.1	â‚¹250
29	High N Hungry	Andhra, Biryani, Chinese, D	4th Cross, BTM	4.1	â‚¹350
30	Burger King	American, Fast Food	7th Block, Koramangala	3.9	â‚¹350

Swiggy Bangalore Outlet Details

❖ Connect Data to Power BI:

First of all, open Power BI Desktop in your desktop. At first screen there is a get data tab click on it then it show the list of sources then click on that source which you want to connect after connection browse the data then load into power BI desktop