

Low Level Design

Analysis Swiggy: Bangalore Delivery Outlet Data

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Version: 1.0

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➤ **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 direction consumption.

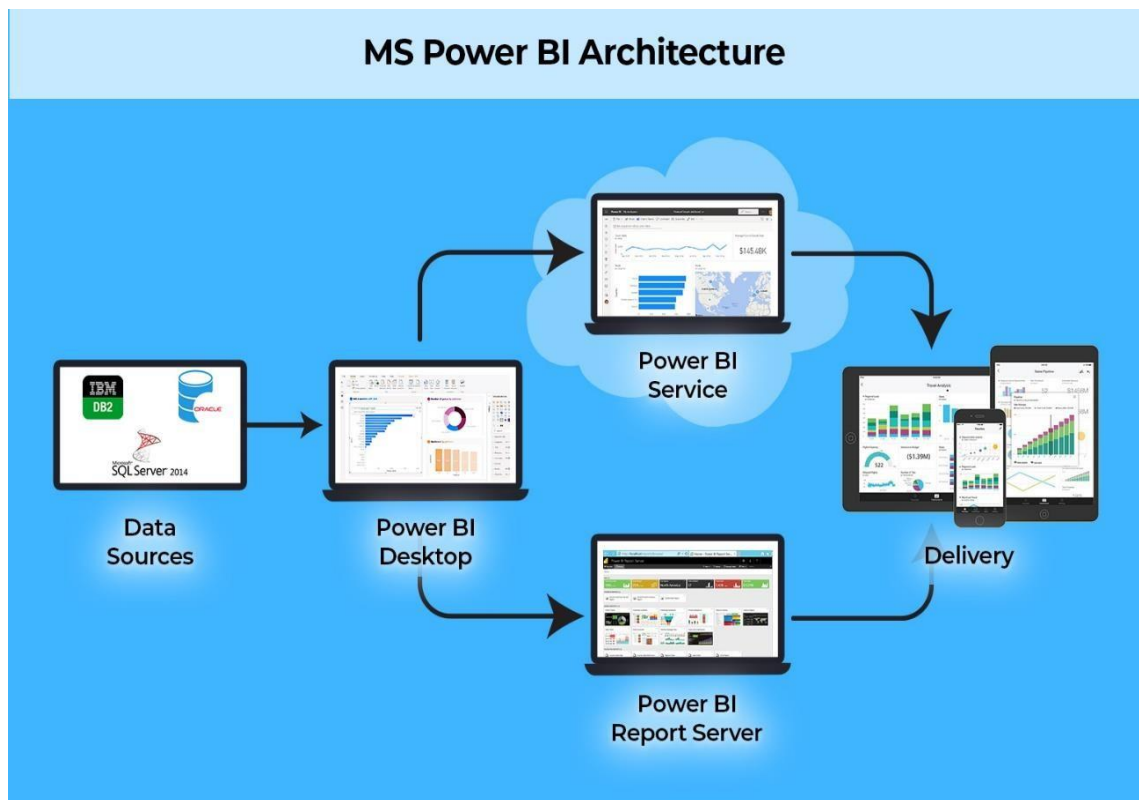
➤ **Tasks:**

- Do ETL: Extract-Transform-Load the dataset and find for me some information from this large data. This is form of data mining.
- What all information can be achieved by mining this data, would be explained in class by the trainer
- Find key metrics and factors and show the meaningful relationships between attributes.
- Do your own research and come up with your findings.

➤ **Scope:**

The aim of this project is to find out who is the best restaurants, highest rating, cost, cuisine cost, expensive restaurants with respective areas. There are four dashboards showing Shop name with rating, Cost of cuisines, Places in different professions. Dashboards show in which area the expensive restaurants are there, what is rating, what all items available, etc. so that each and every one can analyse which restaurant is the best according to cost and ratings.

➤ Architecture:



- **Power Query:**

Power Query is a data transformation and preparation engine. Power Query comes with a graphical interface for getting data from sources and a Power Query Editor for applying transformation.

- **Power Pivot:**

Power Pivot is used to model the data and perform more complex calculations than Excel can handle. Power Pivot is great when working with huge data sets.

- **Power View:**

Power View is a data visualization technology that create interactive charts, graphs, maps, and other visuals that bring data to life. Power View is available in Excel, SharePoint, SQL Server, and Power BI.

- **Power Map:**

Microsoft Power Map for Excel is a three-dimensional (3-D) data visualization tool that look at information in new ways. A power map discover insights might not see in traditional two-dimensional (2-D) tables and charts.

- **Power BI Desktop:**

Power BI Desktop is built for the analyst. It combines state-of-the-art interactive visualizations, with industry-leading data query and modelling built-in. Create and publish reports to Power BI. Power BI Desktop helps empower others with timely critical insights, anytime, anywhere.

- **Power BI Services:**

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

- **Power Q&A:**

The Power Q&A feature in Power BI explore data in your own words. The first part of this article shows how you use Q&A in dashboards in the power BI service. The second part shows what you can do with Q&A when creating reports in either the Power BI service or Power BI Desktop.

➤ 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 Values(.csv) format.

➤ Features Description:

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

	A	B	C	D	E
1	Shop_Name	Cuisine	Location	Rating	Cost_for_Two
2	Kanti Sweets	Sweets	Koramangala, Koramangala	4.3	150
3	Mumbai Tiffin	North Indian, Home Food, Thalys, Combo	Sector 5, HSR	4.4	400
4	Sri Krishna sagar	South Indian, North Indian, Fast Food, Bever	6th Block, Koramangala	4.1	126
5	Al Daaz	American, Arabian, Chinese, Desserts, Fast F	HSR, HSR	4.4	400
6	Beijing Bites	Chinese, Thai	5th Block, Koramangala	4.1	450
7	Kitchens of Punjab	North Indian	Koramangala 4th Block, Koramangala	4.2	350
8	99 VARIETY DOSA AND PAV BHAIJ- Mall	Fast Food, North Indian, Chinese	BTM 2nd Stage, BTM	4.1	200
9	La Pino'z Pizza	Italian	BTM, BTM	3.9	500
10	Hotel Manu	South Indian, Kerala, Chinese, North Indian	HSR, HSR	4.1	350
11	Yumlane Pizza	Pizzas, Italian, Mexican	9th Main road, Koramangala	3.8	150
12	Ambur Star Briyani	Chinese, South Indian, North Indian, Dessert	outer ring road, BTM	4.1	500
13	Cake Box	Desserts	Koramangala, Koramangala	4	247
14	Meghana Foods	Chinese, Andhra, Biryani, Seafood	5th Block, Koramangala	4.3	550
15	Momoz	Chinese	5th Block, Koramangala	4.3	450
16	A2B - Adyar Ananda Bhavan	South Indian, Chinese, Desserts, North India	7th Block, Koramangala	4.2	450
17	Shawarma Inc	Arabian, Fast Food	1st MAin, Koramangala	4.1	150
18	WarmOven Cake & Desserts	Desserts, Beverages	Koramangala, Koramangala	4.1	200
19	Sri Lakshmi Dhaba	North Indian	Bommanahalli, BTM	3.7	200
20	Falahaar & Kota Kachori	North Indian	6th block, Koramangala	4.2	300
21	Shree Khana Khazana	Indian, Rajasthani	Sector 4, HSR	4.1	350
22	Just Bake - Cakes & confectioners	Desserts, Bakery	BTM 1st stage, BTM	4.3	300
23	Maa Di Hatti	Chinese, Healthy Food, North Indian	Jakkasandra Extn. Koramangala	4	129

➤ Connect to Power BI:

