







# Tech Saksham

Case Study Report

# Data Analytics with Power BI

# "360-Degree Business **Analysis of Online Delivery Apps Using Power BI"**

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# **ABSTRACT**

This abstract highlights the comprehensive nature of the 360 degree business analysis showcasing how Power BI can be leveraged to gain actionable insights and drive strategic initiatives in the competitive online delivery apps market. The development of interactive dashboards and automated reports in Power BI enables stakeholders to monitor key metrics and kpis facilitating data driven decision making strategic recommendations encompass areas for improvement, innovation revenue, growth and operational excellence within the online delivery ecosystem.









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#### INTRODUCTION

#### 1.1 Problem Statement

In today's highly competitive online delivery app market, business face challenges in understanding and optimizing various aspects of their operations to stay ahead. These challenges include analyzing customer behavior, optimizing delivery logistics managing inventory effectively and making data driver decisions to improve overall performance and profitability.

## 1.2 Proposed Solution

By implementing solutions using Power BI, business can gain a comprehensive understanding of their online delivery operations, optimize processes, improve customers satisfaction drive revenue growth and stay competitive in the rapidly evolving digital market place.









#### 1.3 Feature

- Data collection and integration: Gather data from various sources such as transactional databases, CRM systems website analytics and customer feedback platforms.
- Financial analysis: Analyze financial data including revenue, costs, profitably by product service, region, or customer segment.
- Collaboration and sharing: Publish dashboards and reports to Power BI service for sharing with stakeholders.
- Operational Analysis: Analyze operational metrics such as delivery times, order fulfillment rates, inventor, turnover and work force efficiency.

#### 1.4 Advantages

- Comprehensive data integration: Power BI can integrate data from various sources such as sales transactions, customer feedback delivery items, inventory levels and more.
- Real time monitoring: With power BI's real time monitoring capabilities, business can track key metrics like order volumes, delivery times, customer satisfaction sources and inventory levels in real time.
- Interactive dashboards: Power BI allows you to create interactive and visually appealing dashboards that can be customized based on specific kpis.









#### 1.5 Scope

Track sales performance over time. Analyze revenue streams from different products on services. Segment customers based on demographics behavior or purchasing patterns. By leveraging Power BI's capabilities for data visualization, data modeling and advanced analytics business can gain comprehensive insights in to their online delivery operations and make data driven decisions to improve performance, enhance customer satisfaction and drive business growth.









# SERVICES AND TOOLS REQUIRED

#### 2.1 Services Used

#### Data Collection:

Gather data from various sources such as transaction data bases, user feedback app analytics customer services, delivery metrics etc. Ensure data quality and compatibility for analysis in Power BI.

#### • Dashboard and reports creation:

Create interactive dashboards and reports in Power BI using the prepared data model. Use visualizations like charts, graphs, maps, and tables to present data insights effectively.

#### 2.2 Tools and Software used

#### Tools:

#### • ETL Tools:

Depending on the complexity and volume of data you may need extract, transform load tools like microsoft power query on the ETL Tools to clean and prepare the data for analysis.

#### SQL:

For more advanced data modeling requirements, you can leverage SSAS to creates tabular models and deploy them for use in Power BI.

#### **Software Requirements:**

#### PowerBI Desktop:

This is the primary tool for creating, designing and publishing Power BI reports and dashboards. It's available as a free download from the microsoft website.









#### PowerBI Service:

If you plan to share and collaborate on reports within your organization you will need Power BI pro licenses and access to the Power BI service for publishing reports creating dashboards and setting up data refresh schedules.

#### • Microsoft Excel:

Excel can be used along side Power BI for data preparation, especially if you take complex data transformations on calculation that are easier to perform in excel.









## PROJECT ARCHITECTURE

#### 3.1 Architecture

#### 1. Data Collection and Integration:

Use Power BI data connections to integrate and transforms the data into a suitable format for analysis.

#### 2. Data Modeling:

Define measures and calculated column to derive performance indicators relevant to online delivery apps.

#### 3. Dashboard and Report Creation:

Design interactive dashboards using Power BI visuals like charts, graphs, maps and tables to represent key business metrics.

#### 4. Key metrics and Analysis:

Perform trend analysis comparisons between different time periods or regions and identify patterns on anomalies in the data.

5. **Security and Governance:** Implement appropriate security measures to ensure data privacy and access control with in the Power BI environment.









## **MODELING AND RESULT**

# Manage relationship

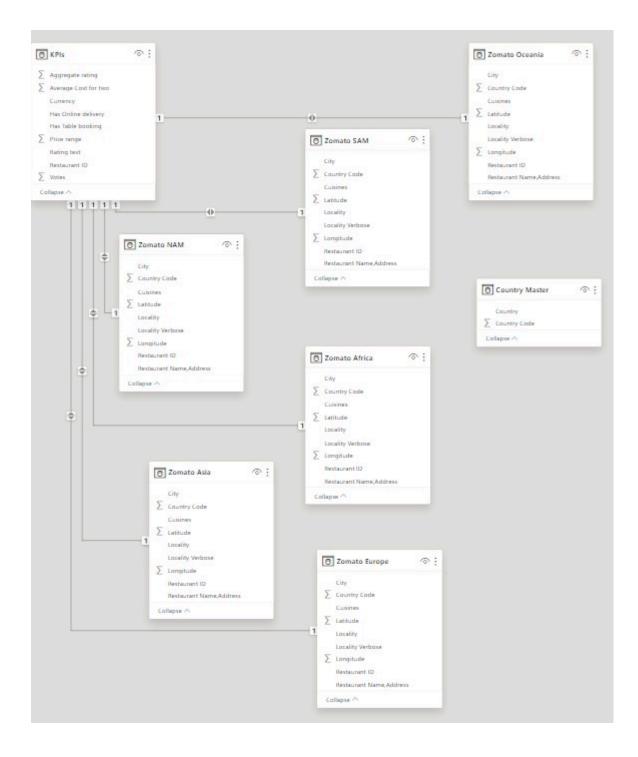
You can effectively manage relationship and create a robust analytical framework for conducting a 360 degree business analysis of online delivery apps using Power BI. Adjust the specifies according to your data sources, business requirements and analysis objectives.



















This is the manage relationship for the given data about business analysis of online delivery apps using Power BI.

# Manage relationships

Active	From: Table (Column)	To: Table (Column)	
~	Zomato Africa (Restaurant ID)	KPIs (Restaurant ID)	
~	Zomato Asia (Restaurant ID)	KPIs (Restaurant ID)	
~	Zomato Europe (Restaurant ID)	KPIs (Restaurant ID)	
~	Zomato NAM (Restaurant ID)	KPIs (Restaurant ID)	
~	Zomato Oceania (Restaurant ID)	KPIs (Restaurant ID)	
•	Zomato SAM (Restaurant ID)	KPIs (Restaurant ID)	









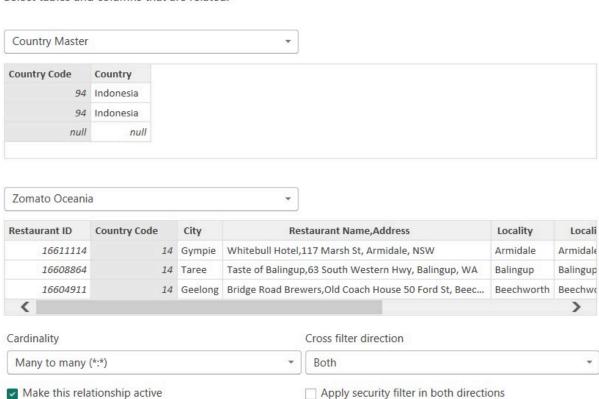
# Create relationship

we create relationship between Country Master and Zomato Oceania by using Restaurant ID, Country Code, City, Restaurant Name, Address, Locality and etc.

# Create relationship

Assume referential integrity

Select tables and columns that are related.



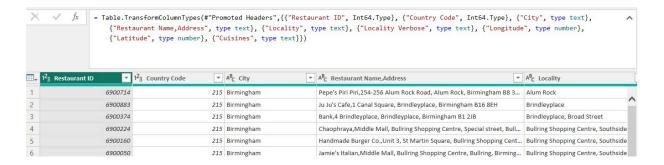








It is a table transform column types by promoted Headers, Restaurant ID, Country Code, City, Restaurant Name, Address, Locality, Locality Verbose, Longitude, Latitude, cuisines.



Here we removed columns and changed types for Restaurant ID, Country Code, City, Restaurant Name, Address.



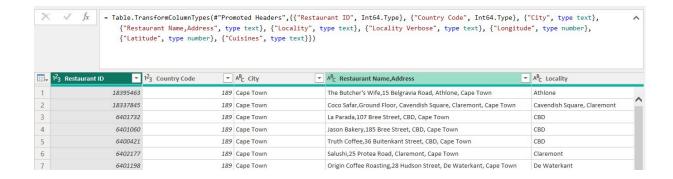




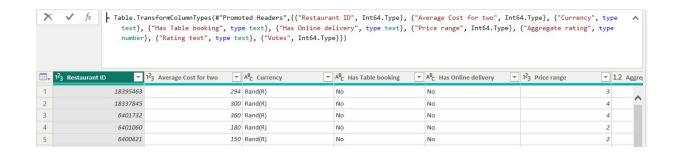




It is a table transform column types by promoted Headers, Restaurant ID, Country Code, City, Restaurant Name, Address, Locality, Locality Verbose, Longitude, Latitude, cuisines.



It is a table transform column types by Restaurant ID, Average cost for two currency, Has table booking, Has online delivery, Price Range, Aggregation Rating, Rting Text, Votes.





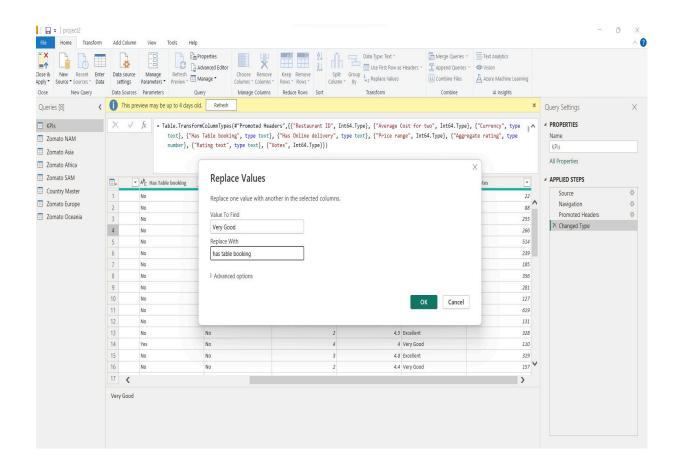






#### Replacing values

Here we replace values by replacing one value with another in the selected columns. Typing Very Good in values to find and has table booking in replace with boxes.



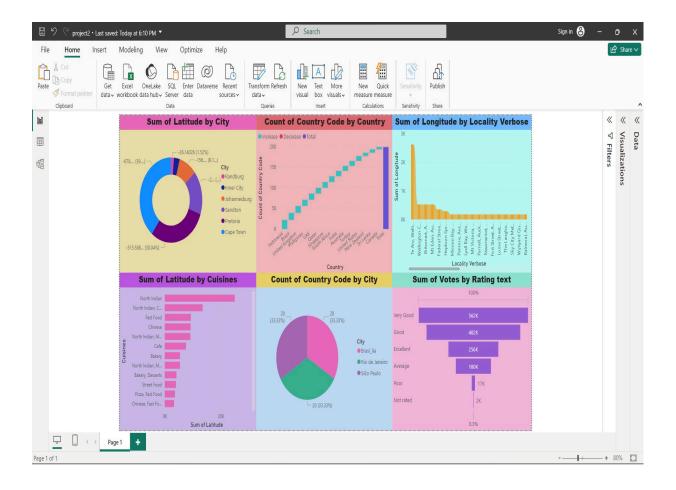








# **Dashboard**











### **CONCLUSION**

Using Power BI for a 360 degree analysis of online delivery apps provides actionable insights for strategic devision making. It helps in understanding customer behavior, optimizing operations improving marketing strategies and enhancing overall business performance. By leveraging data-driven-insights online delivery apps can stay competitive drive growth and enhance customer satisfaction in a dynamic market environment.









#### **FUTURE SCOPE**

The future of 360 degree business analysis for online delivery apps. Using Power BI lines in leveraging emerging technologies like AI, IOT, AR/VR and block chain to enhance division making, optimize operations and deliver exceptional customer experiences while adhering to ethical and regulatory standards continuous innovation and adoption to technological advancement will be lay drivers for success in the evolving online delivery industry.









# **REFERENCES**

https://powerbi.pl/en/ms-power-bi/360-degree-analytics









# LINK