







TechSaksham

CaseStudyReport

DataAnalyticswithPowerBl

"360-**DEGREEBUSINESSANALYSISOF ONLINE DELIVERY APPS"**

"SAKTHIKAILASH WOMEN'S COLLEGE -DHARMAPURI"

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ABSTRACT

In the digital world, Online food ordering system is mainly designed primarily function for use in the food delivery industry. This

systemwillallowhotelsandrestaurantstoincreaseonlinefoodorderi ng such type of business. The customers can be selected food menu items just few minutes. In the modern food industries allows to quickly and easilydelivery on customer place. Restaurant employees then usethese orders through an easy to delivery on customer place easy find out navigate graphical interface for efficient processing.









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CHAPTER 1

INTRODUCTION

1.1 ProblemStatement:

Different food delivery applications often provide different offers or discounts. Users are also not satisfied with their delivery time and random cancellations.

Thecurrentfooddeliveryapplicationsprovidedifferentdiscountsonthesameit em butindifferentplatform. It is also seen that delivery time of an item is not same in all the applications. Adding all the discounts and estimated delivery time of different food joints under a single interface will be economical and less time consuming.

1.2 Proposed Solution:

The proposed solution is to develop a Power-BI dashboard that can analyze and visualize BusinessAnalysis of food deliveryApp. It's time to create solutions for theproblem. To understandtheir situation, I have thought of Bringing discounts and offers of different applications under a single interface. Comparing the delivery time of different applications under a single interface. Comparing the delivery time of different applications under a single interface.

together.Userswillgetanideaofthetimingsandtheycanchooseaccordingly.N o cancellation guarantee should be provided before placing an order maybe in form ofaniconwhichcanbe accessedbythe restaurant managerandconnected totheir website.

















- Real-Time Order Tracking: The dashboard will provide real-time order tracking of Hungry customers want their meals delivered fast.
- Customer Segmentation: It will segment customers based on perceptions about service quality, bargain hunter, impatient, interested in new innovations, etc.
- TrendAnalysis: Thedashboardwillidentifyanddisplaytrendsincustome r behavior.
- Predictive Analysis: It will use historical data to predict future customer behavior.

1.4 Advantages:

- **Timesaving**: Tosaveconsumers' timebyremovingtheneedtogoto restaurants in person or stand in queue for takeaway orders.
- PromotionsandDiscounts: Toprovideexclusiveoffers, discounts, and loyalty awards to draw in new clients and keep existing ones coming back.
- RevenueGeneration: Bringmoneythroughdeliveryfees, commissions from affiliated eateries, and prospective advertising opportunities.

1.5 Scope

Food delivery apps are third-party services that connect restaurants with customers, convenience stores, and more. Insucha technologicalera, people find it difficult to visit restaurants. Most often, they are unable to manage time for picking up their order. Therefore, most of them like to use the food delivery app. They allow customers to order food from restaurants, compare prices, and see estimated delivery times. Food delivery apps also help restaurants improve customersatisfactionbyreducingwaittimes and helpingemployees connect with customers.









CHAPTER2SERVICES

AND TOOLS REQUIRED

2.1 ServicesUsed:

Therearenumerous benefits of online food delivery service, such as

- Audiencescanmakeordersfromanywhereelse.
- · Theonlinedeliveryservices avestime from the customerside.
- Restaurantscancollectbettercustomerdata.
- Most restaurants offer online food delivery 24 hours. That's why customers can make late night food delivery orders.

2.2 ToolsandSoftwareusedTools:

- Power BI: The main tool for this project is Power BI, which will be used to create interactive dashboards for real-time data visualization.
- Power Query: This is a data connection technology that enables you to discover, connect, combine, and refine data across a wide variety of sources.

SoftwareRequirements:

- PowerBIDesktop: This is a Windows application that you can use to create reports and publish them to Power BI.
- Power BI Service: This is an onlineSaaS (Software as a Service) servicethatyouusetopublishreports, createnewdashboards, a nd share insights.
- PowerBIMobile: This is a mobile application that you can use to access your reports and dashboards on the go.

CHAPTER3



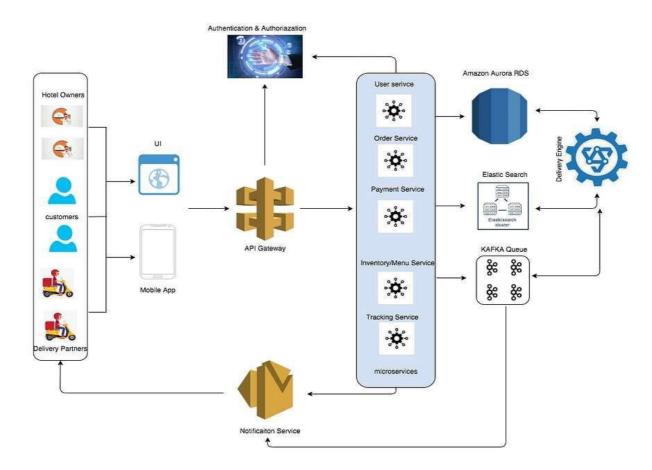






PROJECTARCHITECTURE

3.1 Architecture



Here's a high-level architecture for the project:









- 1. **DataStorage**:Fooddeliveryappsusedatabasestostoredataab out users, restaurants, orders, and more.
- 2. **DataProcessing**:Fooddeliveryappscanusedatatohelpimprov e customer satisfaction, build brand image, and increase sales.
- 3. Machine Learning: Food delivery apps use machine learning to improve their algorithms, which can help users get a more personalized experience. For example, Zomato uses machine learning to automate menu digitization, create personalized restaurant listings, and predict food preparation times.
- 4. **Data Visualization**: The processed data and the results from the predictive models are visualized in real-time using Power BI. Power BI allows you to create interactive dashboards that can provide valuable insights into the data.
- DataAccess: ThedashboardscreatedinPowerBlcanbeaccess ed through Power BIDesktop, Power BIService (online), and Power BI Mobile.

This architecture provides a comprehensive solution for realtime analysis of food delivery apps. However, it's important to









note that the specific architecture may vary depending on the food delivery

connection, specific requirements, and budget. It's also important to









ensurethat all tools and services comply with relevant dataprivacyand security regulations.

CHAPTER 4

MODELINGANDRESULT

Managerelationship

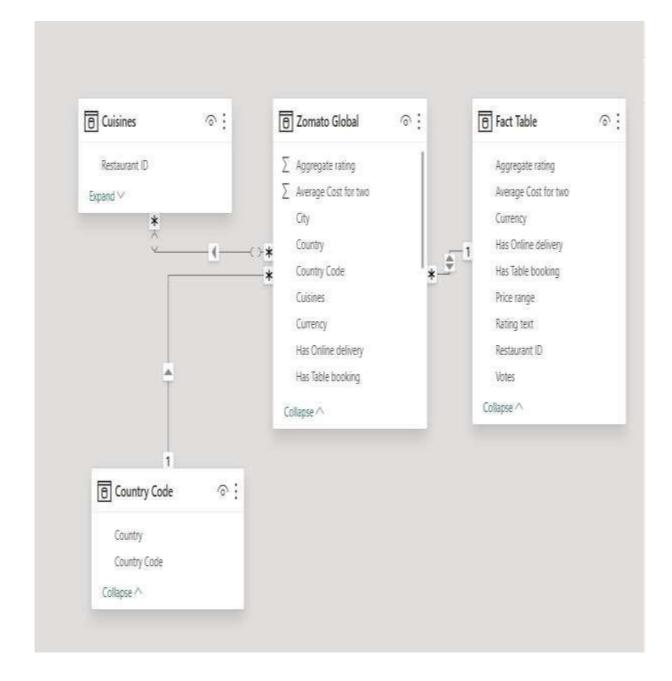
The "cuisines" filewill be used as the main connector as it contains most key identifier (Restaurant ID, Fact table and Zomato global) which can be uses to relates the 4 data files together. The "country code" file is use to link the client profile geographically with "Zomato global"











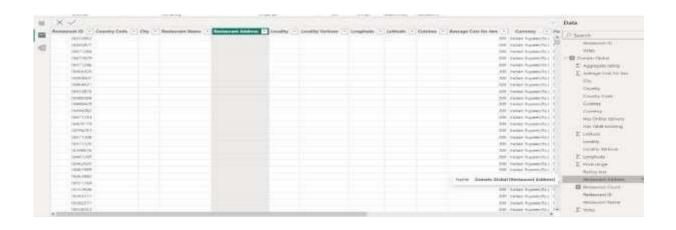
















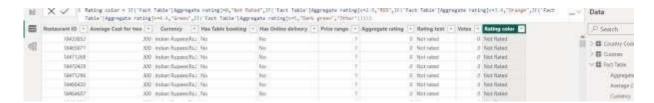






ModellingforGenderandAgedata

Notice that the Gender and age of the client are missing from the data. These can be formulated from the birth number YYMMDD where at months (the 3rd and 4th digits) greater than 50 means that client is a Female. We can create a column for Gender.



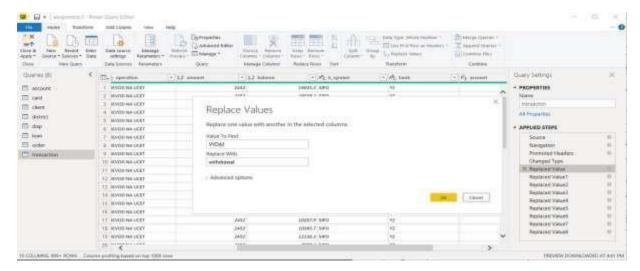
Forbirthday,weneedtoreducethebirthmonthofthefemaleby50andthenchange the date format to DD/MM/YYYY adding 1900 to the year.

ForAge, we shall assume it is year 1999 as explain previously and use it to minus from the birth year.



Replacingvalues

SetsomefieldstoEnglishforeasyunderstanding,wereplacevaluestoEnglishwith the Power Query Editor.













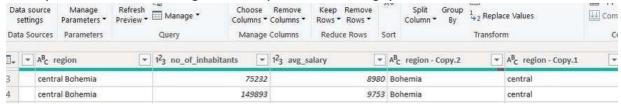




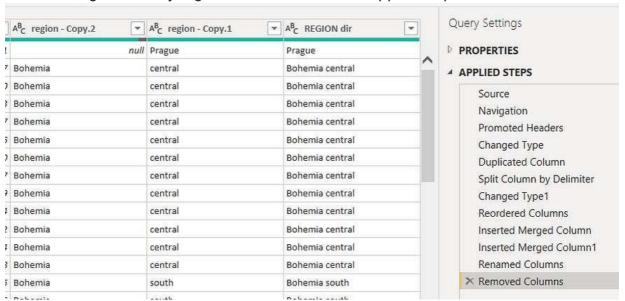


ChangingtheorderofRegionnameatPowerQuery

Duplicatethe "district/region" then split columnusing space as delimiter.



ThenmergecolumnbyRegionanddirection.Refertoappliedstepsfordetails.



Grouping ofagebyranges

Asthecustomers'agerangesfrom12to88,weshallgroupthemintodifferent generation age range for easier profiling, we will group the ages into 5 groups.

TheGenYare youths,

GenXareyoungworkingadults,somestartingtheirfamiliesBaby Boomer are working adults with families.

ThesilentGenerationssomeareworkingandretired,livingonpensions. The greatest Generation, retired elderly living on pensions.

Valuesofsuchas "accountId" have also been set as Text.

And District name have been categorized as place to be usefor the map to show the sum of the inhabitants in each region.

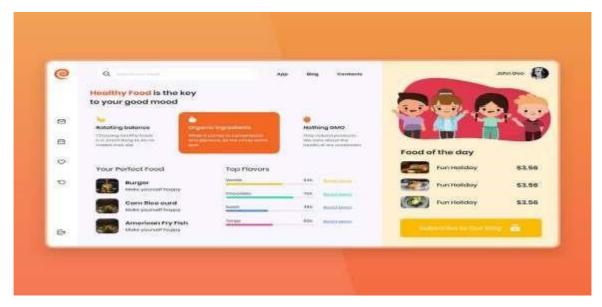


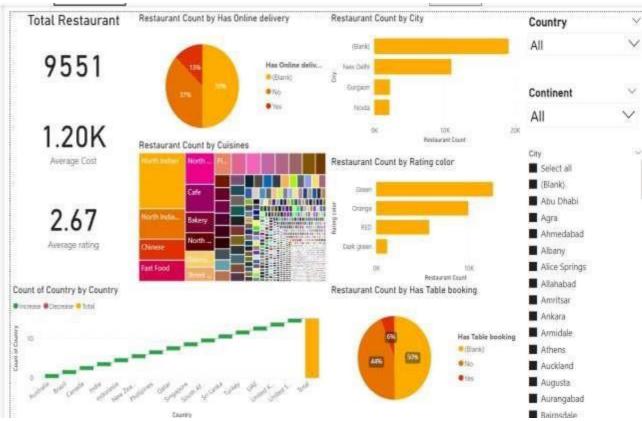






Dashboard













CONCLUSION

Nowadays, the traditional way of going to a restaurant and eating has

reducedconsiderably.It'sanewagewheretechnologydominateshumanlife.
With the software and technological devices, exceptions are reduced and even terminated. Also, people prefer easy, quick and safe access to everything. This project is designed to meet the requirements of a restaurant.

The Online Food OrderingSystemprovidesasimplewaytostoredetailsofthecustomer,foodite ms

availableandtogeneratethebill. It is an interface that allows the customer to ord er the desired food which he/she can relish within a span of forty-five minutes.

The project is designed is such a way that the user can modify the primary information required to manage their profile successfully such as the information about the deliver address and contact number. With this platform we developed, we are hoping to reduce time wasting, avoid misunder standings, provide easy data flow, customer pleasure, and less hard work. We believe that we have accomplished our goals and satisfied with the code we developed.









FUTURESCOPE









The future scope of this project is vast. With the advent of advanced analytics and machine learning,PowerBI canbeleveragedtopredictfuturetrends basedonhistoricaldata.Integrating thesepredictiveanalytics intotheprojectcouldenablethebank toanticipatecustomerneeds and proactively offer solutions. Furthermore, Power Bl's capability to integrate with various data sources open sup the possibility of incorporating more diverse datasets for a more holist and the contraction of the conic view of customers. As data privacy and security become increasingly important, future

iterationsofthisprojectshouldfocusonimplementingrobustdatagovernancestrategies. This would ensure the secure handling of sensitive customer data while complying with data protection regulations. Additionally, the project could explore the integration of real-timedata

stream stop rovide even more timely and relevant in sights. This could potentially transform the experimental experiments of the could be a significant of

waybanksinteractwiththeircustomers,leadingtoimprovedcustomersatisfactionandloyal ty.

REFERENCES









- 1. https://cuzegbu.medium.com/ux-case-study-food-delivery-app-design-2a001c78db96
- 2. https://bootcamp.uxdesign.cc/ux-case-study-online-food-delivery-aac10a67d2e









LINK

https://github.com/Abhitha22/360-degree-business-analysis-of-Food-Delivery-Apps