

**"360 DEGREE BUSINESS ANALYSIS OF ONLINE
DELIVERY APP"**

"ST JOHNS COLLEGE"



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ABSTRACT

In a country like India, the advent of technology has magnified e- businesses. A person or a consumer who is hungry or craving food or lazy to cook or may not have time to go out and eat may now have food ordered online by getting a quick door delivery. Consumers continue to eat

out, but they find ordering food online immensely convenient because it banishes the need to visit restaurants physically. The fundamental goal of the current study was to assess the consumer preferences and perceptions of online food ordering amenities. Objectives: To probe customers' insights on online food delivery amenities and to recognize the several components that influence the end-user decisions. Another objective is to avail oneself of online food delivery amenities. Consumer's preferred online food delivery amenities portal was investigated. This study also intended to determine the elements that impact the consumer's decision to order food online. Due to the analysis of this study, it is helpful to understand better customer perceptions and preferences for online food ordering amenities. Design/Methodology/Approach: The survey was conducted as an approach to obtain information about customer preferences on online food delivery amenities. Along with this multiple online sources such as journal Papers, websites and blogs that guide and review online food delivery were used to conduct this company analysis. Open questions were asked to people in general on ordering food online using different apps. Findings/Result: The survey results were used better to understand people's insights on online food amenities. The study was based on Empirical Analysis. It demonstrates the swiftness in the consumers to discover the best restaurants or select their favorite dish from the menu as per their want with the feel of dining at home, with hot food on the Table with quick delivery at the door. Hence tools like NPS, Multidimensional scaling and factor analysis were engaged coupled with ABCD analysis. Originality/Value: The survey found that many respondents utilize Swiggy or Zomato to order food online, using both primary and secondary data. The study helped to find out the preferred app for online food delivery wherein it found that a smaller percentage of respondents preferred to use Swiggy and Zomato..

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CHAPTER 1

INTRODUCTION

- **Problem Statement**

The online delivery industry is experiencing rapid growth, but faces challenges in maintaining profitability, ensuring customer satisfaction, and optimizing logistics. How can online delivery businesses improve efficiency, reduce costs, and enhance the customer experience to achieve sustainable growth?

- **Proposed Solution**

Business Analysis of Online Delivery

The online delivery market is booming, fueled by convenience-seeking consumers and the rise of smartphones. Here's a breakdown to analyze this business opportunity:

Market Analysis:

Market size and growth: The online delivery market is massive and expected to keep growing at a significant CAGR (Compound Annual Growth Rate) [4]. This indicates a strong potential for new entrants.

Segmentation: Delivery services cater to various needs - food, groceries, retail items, etc.

Analyze which segment interests you most [3].

Competition: Identify major players and their strengths/weaknesses. Look for niches or gaps in the market where you can offer a differentiated service [2].

Customer Analysis:

Target audience: Who are your ideal customers? Busy professionals, families, or a specific demographic? Understanding their needs is crucial

Customer pain points: What problems do customers face with existing services? Is it long delivery times, high fees, or limited selection? Focus on solving these pain points.

Customer value proposition: How will your service be better? Faster deliveries, wider selection, or loyalty programs can attract customers.

Business Model Analysis:

Revenue streams: Delivery fees, commissions from restaurants/stores, or subscription models are common options.

Cost structure: Delivery logistics (drivers, vehicles), marketing, and platform maintenance are key cost factors.

Profitability: Analyze how you'll achieve profitability. Optimizing delivery routes, negotiating commission rates, and managing costs effectively are essential.

- **Feature**

Market Analysis

Market size and growth

Segmentation (e.g., food, groceries, retail)

Competition

Customer Analysis

Target audience

Customer pain points (e.g., long delivery times, high fees)

Customer value proposition (e.g., faster deliveries, wider selection)

Business Model Analysis

Revenue streams (e.g., delivery fees, commissions)

Cost structure (e.g., delivery logistics, marketing)

Profitability

Operational Analysis

Delivery network (in-house drivers, partnerships)

Technology platform (user-friendly app, order management)

Logistics and efficiency (delivery routes, peak periods, food quality)

- **Advantages**

Increased Efficiency and Profitability

Identify cost-saving opportunities: By analyzing your delivery routes, logistics, and operations, you can identify areas to streamline processes and reduce costs. This could involve negotiating better rates with suppliers, optimizing delivery routes to minimize travel time, or implementing technology to automate tasks.

Optimize delivery routes and logistics: A business analysis can help you design efficient delivery routes that take into account factors like traffic patterns, order volume, and driver availability. This can significantly reduce delivery times and improve customer satisfaction.

Improve operational decision-making: Data-driven insights from your business analysis can inform better decision-making on various aspects of your operation. For instance, you can identify peak ordering times to schedule additional drivers or optimize your menu offerings based on customer preferences.

Enhanced Customer Satisfaction

Understand customer needs and pain points: A business analysis can help you understand what your customers value most and what frustrations they experience with current delivery services. This could involve surveys, focus groups, or analyzing customer reviews. By understanding these pain points, you can tailor your service offerings to better meet their needs.

Develop targeted marketing strategies: With a clear understanding of your target audience and their needs, you can develop targeted marketing campaigns that resonate with them. This can help you acquire new customers and retain existing ones.

Improve delivery speed and food quality: By optimizing your delivery routes and logistics, you can ensure faster delivery times, which is a major factor for customer satisfaction in food delivery. Additionally, the analysis can help you identify areas for improvement in packaging to maintain food quality during transport.

- **Scope**

The scope of this project extends to all banking institutions that aim to leverage data for decision-making and customer engagement. The project can be further extended to incorporate more data sources and advanced analytics techniques, such as machine learning and artificial intelligence, to provide more sophisticated insights into customer behavior. The project also has the potential to be adapted for other sectors, such as retail, healthcare, and telecommunications, where understanding customer behavior is crucial. Furthermore, the project contributes to the broader goal of digital transformation in the banking sector, promoting efficiency, innovation, and customer-centricity.

CHAPTER 2

SERVICES AND TOOLS REQUIRED

2.1 Services Used

- **Data Collection and Storage Services:** Banks need to collect and store customer data in real-time. This could be achieved through services like Azure Data Factory, Azure Event Hubs, or AWS Kinesis for real-time data collection, and Azure SQL Database or AWS RDS for data storage.
- **Data Processing Services:** Services like Azure Stream Analytics or AWS Kinesis Data Analytics can be used to process the real-time data.
- **Machine Learning Services:** Azure Machine Learning or AWS SageMaker can be used to build predictive models based on historical data.

2.2 Tools and Software used

Tools:

- **PowerBI:** The main tool for this project is PowerBI, 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.

Software Requirements:

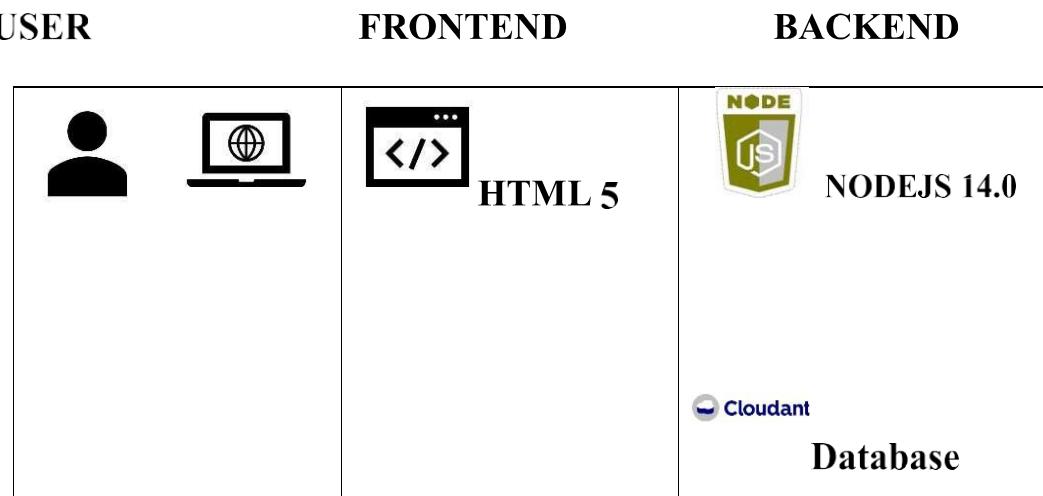
- **PowerBI Desktop:** This is a Windows application that you can use to create reports and publish them to PowerBI.

- **PowerBI Service:** This is an online SaaS (Software as a Service) service that you use to publish reports, create new dashboards, and share insights.
- **PowerBI Mobile:** This is a mobile application that you can use to access your reports and dashboards on the go.

CHAPTER 3

PROJECT ARCHITECTURE

3.1 Architecture



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

- **Data Collection:** Real-time customer data is collected from various sources like bank transactions, customer interactions, etc. This could be achieved using services like Azure Event Hubs or AWS Kinesis.
- **Data Storage:** The collected data is stored in a database for processing. Azure SQL Database or AWS RDS can be used for this purpose.

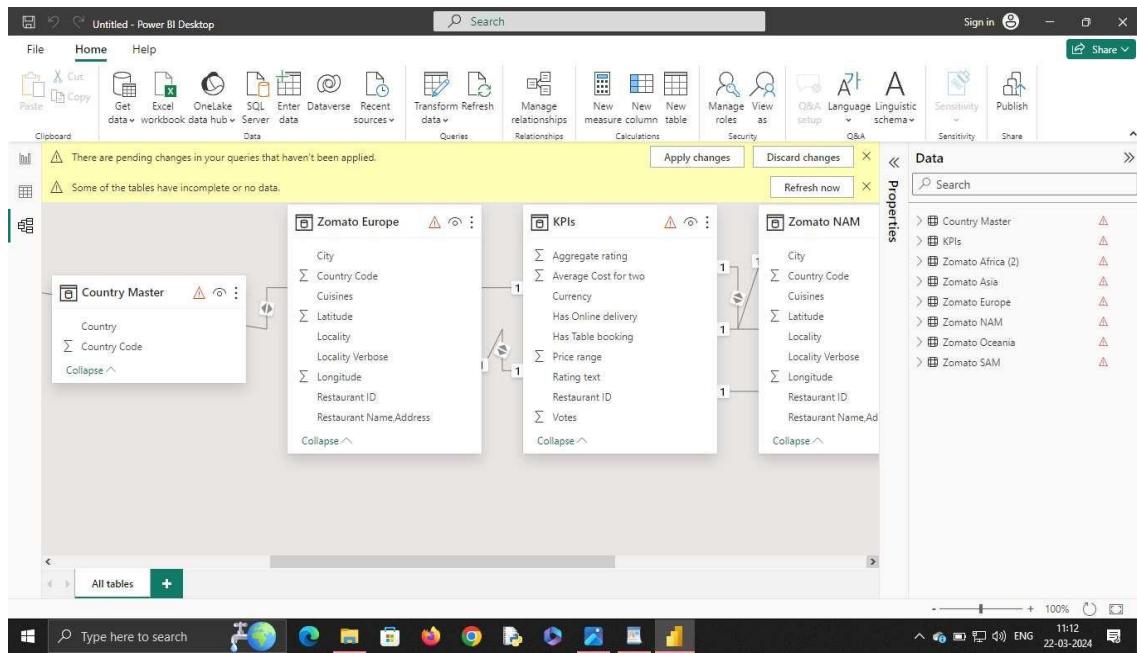
- **Data Processing:** The stored data is processed in real-time using services like Azure Stream Analytics or AWS Kinesis Data Analytics.
- **Machine Learning:** Predictive models are built based on processed data using Azure Machine Learning or AWS SageMaker. These models can help in predicting customer behavior, detecting fraud, etc.
- **Data Visualization:** The processed data and the results from the predictive models are visualized in real-time using PowerBI. PowerBI allows you to create interactive dashboards that can provide valuable insights into the data.
- **Data Access:** The dashboards created in PowerBI can be accessed through PowerBI Desktop, PowerBI Service (online), and PowerBI Mobile.

This architecture provides a comprehensive solution for real-time analysis of bank customers. However, it's important to note that the specific architecture may vary depending on the bank's existing infrastructure, specific requirements, and budget. It's also important to ensure that all tools and services comply with relevant data privacy and security regulations.

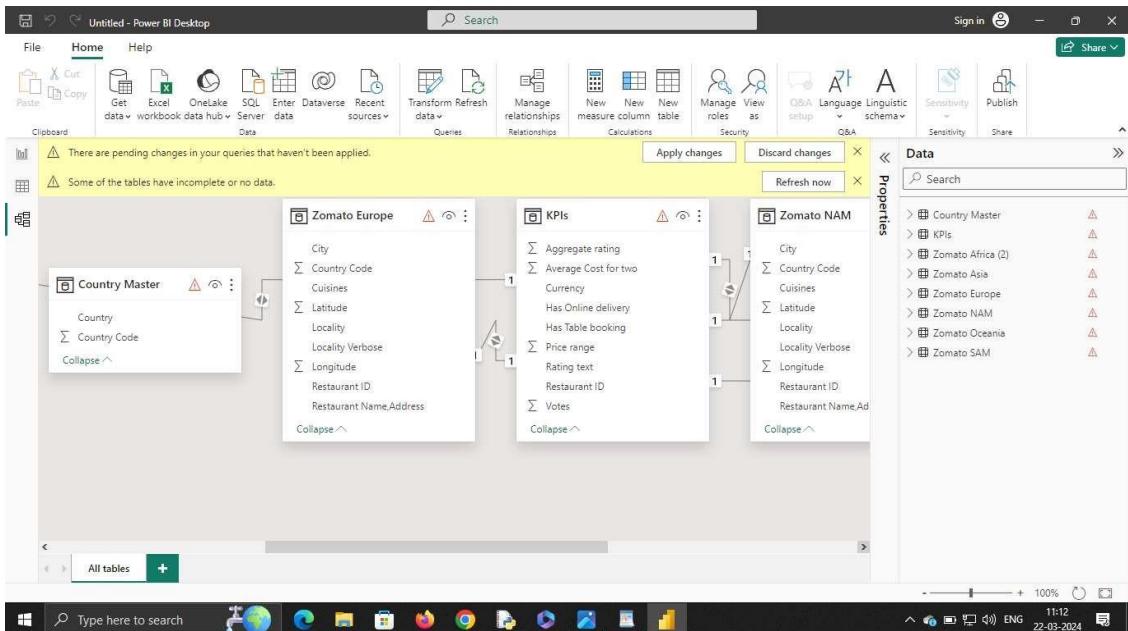
CHAPTER 4

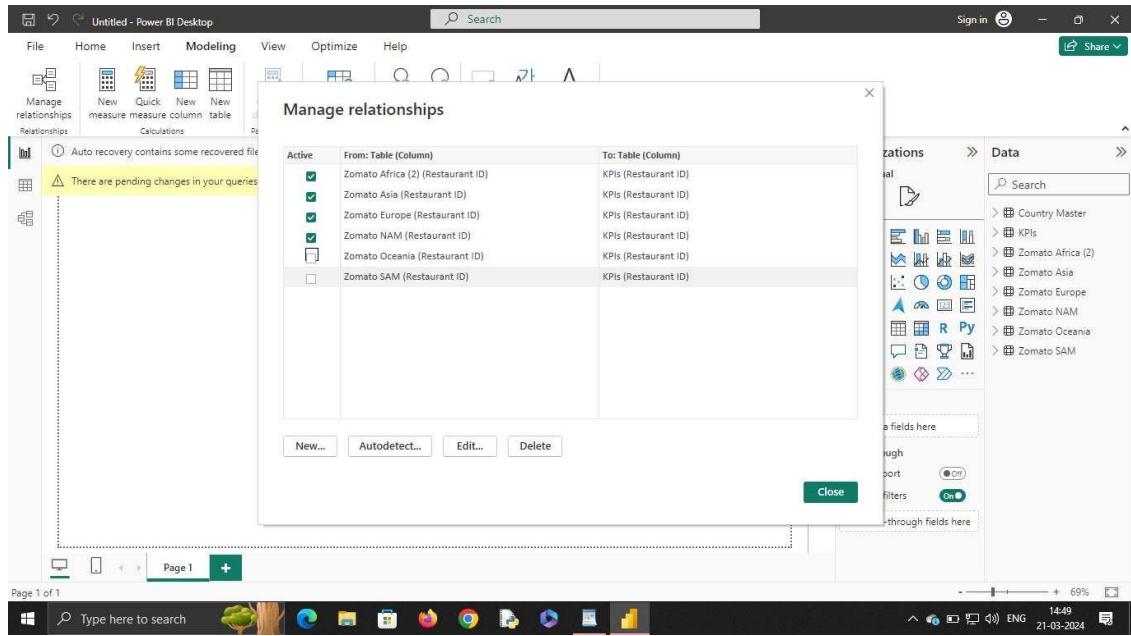
MODELING AND RESULT

Manage relationship



MANAGE RELATIONSHIP





EDIT RELATIONSHIP

Edit relationship

Select tables and columns that are related.

Zomato SAM

Restaurant ID	Country Code	City	Restaurant Name,Address	Locality	Locality %
6600681	30	Brasília	Chez Michou,SCLN, 208, Bloco A, Loja 30, Asa Norte, Br...	Asa Norte	Asa Norte
6601005	30	Brasília	Café Daniel Briand,SCLN 104, Bloco A, Loja 26, Asa No...	Asa Norte	Asa Norte
6600292	30	Brasília	Casa do Biscoito Mineiro,SCLN 210, Bloco D, Loja 36/48...	Asa Norte	Asa Norte

KPIs

Restaurant ID	Average Cost for two	Currency	Has Table booking	Has Online delivery	Price range
18433852	300	Indian Rupees(Rs.)	No	No	1
18465871	300	Indian Rupees(Rs.)	No	No	1
18471268	300	Indian Rupees(Rs.)	No	No	1

Cardinality

One to one (1:1)

Cross filter direction

Both

Make this relationship active

Assume referential integrity

OK **Cancel**

MODDELING for COUNTRY AND RESTAURANT

The screenshot shows the Power Query Editor interface with the following details:

- File, Home, Transform, Add Column, View, Tools, Help** menu bar.
- Queries [10]** list on the left: Zomato Africa, Table, Zomato Africa (2), Zomato Asia, Zomato Master, Zomato Europe, KPIs, Zomato NAM, Zomato Oceania, Zomato SAM.
- Source** pane: Zomato Europe, Kind: Sheet, Data.
- Properties** pane: Name: Zomato Europe, All Properties.
- Applied Steps** pane: Source, Navigation, Promoted Headers, Changed Type.
- Transform** ribbon: Close & Apply, New Source, Recent Sources, Enter Data, Data source settings, Data Sources, Manage Parameters, Refresh, Advanced Editor, Properties, Preview, Query, Choose Columns, Remove Columns, Keep Rows, Remove Rows, Split Column, Group By, Replace Values, Data Type: Any, Use First Row as Headers, Merge Queries, Append Queries, Vision, Combine Files, Combine, All Insights.
- Table View** (Zomato Europe data):

	Column1	Column2	Column3	Column4
1	Restaurant ID	Country Code	City	Restaurant Name,Address
2	6900714	215	Birmingham	Pope's Piri Piri,1254-256 Alum Rock Road, Alum Rock, Birmingham B8 3...
3	6900883	215	Birmingham	Ju 't Cafe,1 Canal Square, Brindleyplace, Birmingham B16 8EH
4	6900374	215	Birmingham	Bank,4 Brindleyplace, Brindleyplace, Birmingham B1 2JB
5	6900224	215	Birmingham	Chopharrya, Middle Mill, Bullring Shopping Centre, Special street, Bull...
6	6900160	215	Birmingham	Handmade Burger Co,Unit 3, St Martin Square, Bullring Shopping Cent...
7	6900050	215	Birmingham	Jamie's Italian,Middle Mill, Bullring Shopping Centre, Bullring, Birming...
8	6900724	215	Birmingham	Bodega,12 Bennetts Hill, City Centre, Birmingham B2 5RS
9	6901081	215	Birmingham	San Carlo,55 Cornwall Street, City Centre, Birmingham B2 5BN
10	6900674	215	Birmingham	Purnell's,55 Cornwall Street, Colmore Business District, Birmingham B...
11	6901062	215	Birmingham	The Warehouse Cafe,54-57 Allison Street, Digbeth, Birmingham B5 5TH
12	6900669	215	Birmingham	Fiesta del Asado,228 Hagley Road, Edgbaston, Birmingham B16 9RP
13	6900811	215	Birmingham	Istanbul Restaurant,2 Stockwell Road, Handsworth, Birmingham B21 9RU
14	6901051	215	Birmingham	The Plough,21 High Street, Harborne, Birmingham B17 9NT
15	6900388	215	Birmingham	Lasan Restaurant,3-4 Dakota Buildings, James Street, Saint Paul's Squ...
16	18273002	215	Birmingham	Damascena Coffee House,133 Alcester Road, Moseley, Birmingham
17	6901231	215	Birmingham	Tipu Sultan,43 Alcester Road, Moseley, Birmingham B13 8AA
18	6901394	215	Birmingham	Jamjar,418 Coventry Road, Small Heath, Birmingham B10 0TH
19	6900843	215	Birmingham	Chennai Dosa,445-447, Dudley Road, Smetwick, Birming...
20				Sme
- Bottom Status Bar**: 9 COLUMNS, 81 ROWS - Column profiling based on top 1000 rows.

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Transpose Data Type Text Replace Values Unpivot Columns

Group Use First Row By as Headers Count Rows Rename Pivot Column Convert to List

Move Split Column Format Text Column Number Column

10² Trigonometry Statistics Standard Scientific Information

Date Time Duration Run R Run Python script

Queries

Table Any Column Text Column Number Column Date & Time Column Scripts

Query Settings

PROPERTIES Name: Zomato SAM

APPLIED STEPS Source, Navigation, Promoted Headers, Changed Type

5 COLUMNS, 2 ROWS Column profiling based on top 1000 rows

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Replacing values

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Close & Apply New Source Recent Data source settings Manage Parameters Refresh Advanced Editor Properties Choose Columns Remove Columns Keep Rows Remove Rows Split Column Group By Data Type: Whole Number Use First Row as Headers Transform

Queries [10]

Zomato Africa Table Zomato Africa (2) Zomato Asia Country Master Zomato Europe KPIs Zomato NAM Zomato Oceania Zomato SAM

Table.TransformColumnTypes(#"Promoted Headers",{{"Restaurant ID", Int64.Type}, {"Average Cost for two", Int64.Type}, {"Currency", type text}, {"Has Table booking", type text}, {"Has Online delivery", type text}, {"Price range", Int64.Type}, {"Aggregate rating", type number}, {"Rating text", type text}, {"Votes", Int64.Type}})

Restaurant ID Average Cost for two Currency Has Table booking Has Online delivery Price range

1	18395463	294 Rand(R)	No	No	
2	18337845	300 Rand(R)	No	No	
3	6401732	360 Rand(R)	No	No	
4	6401060	180 Rand(R)	No	No	
5	6400421	150 Rand(R)	No	No	
6	6402177	250 Rand(R)	No	No	
7	6401198	200 Rand(R)	No	No	
8	6401054	350 Rand(R)	No	No	
9	6403281	250 Rand(R)	No	No	
10	6403499	250 Rand(R)	No	No	
11	6400191	500 Rand(R)	No	No	
12	6404082	250 Rand(R)	No	No	
13	6401485	110 Rand(R)	No	No	
14	6400621	535 Rand(R)	Yes	No	
15	6403544	230 Rand(R)	No	No	
16	6403452	125 Rand(R)	No	No	
17	6402163	450 Rand(R)	No	No	
18	6401789	320 Rand(R)	No	No	
19	6400235	270 Rand(R)	No	No	
20					

9 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

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22-03-2024 12:09

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Close & Apply Source Recent Sources Enter Data Data source settings Manage Parameters Refresh Preview Advanced Editor Properties Choose Columns+ Remove Columns Keep Rows+ Remove Rows+ Split Column Group By Replace Values Data Type: Whole Number Use First Row as Headers Merge Queries Append Queries Combine Files Text Analytics Use Vision Combine Files Azure Machine Learning AI Insights

Queries [10]

Zomato Africa Table Zomato Africa (2) Zomato Asia Country Master Zomato Europe KPIs Zomato NAM Zomato Oceania Zomato SAM

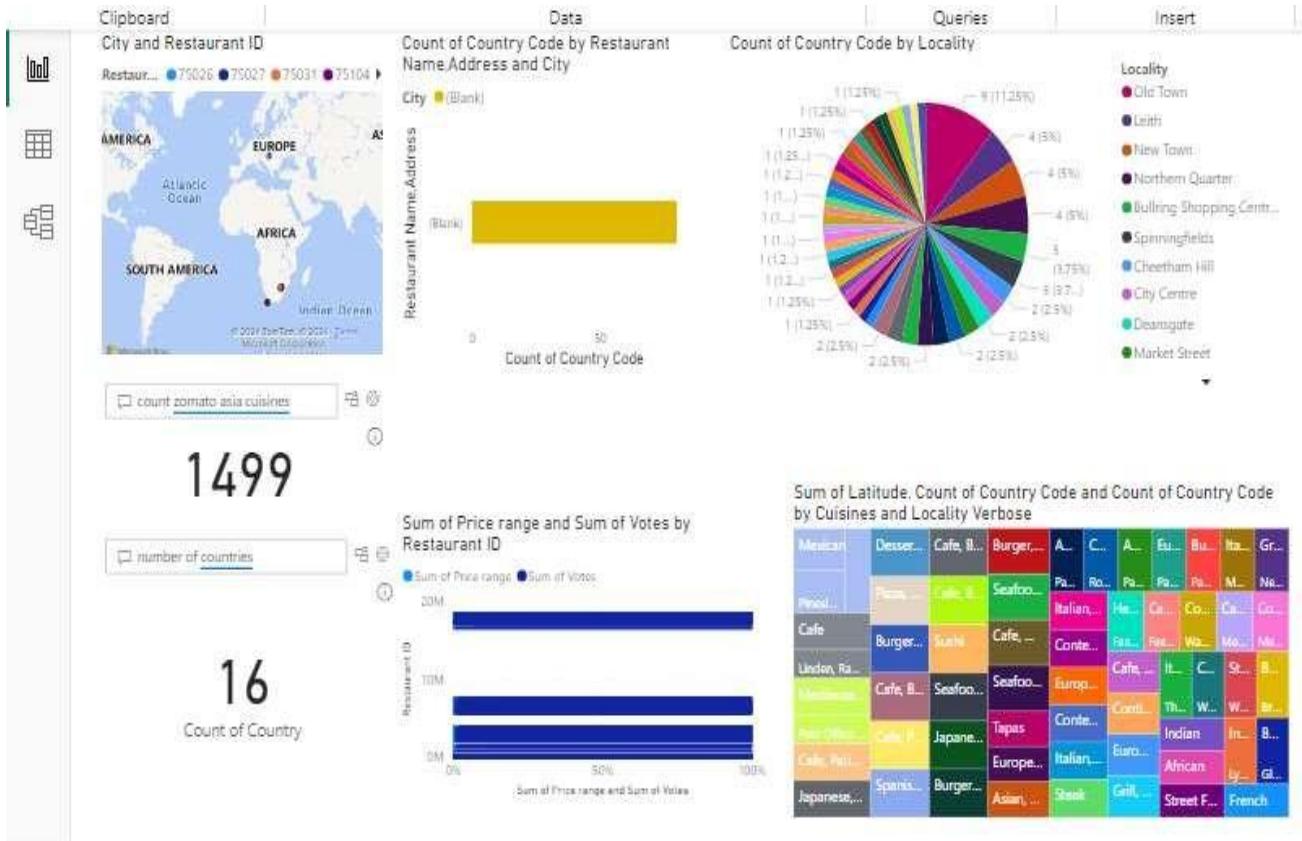
Restaurant ID Country Code City Restaurant Name Address Loc

	Restaurant ID	Country Code	City	Restaurant Name Address	Loc
1	17284404	216	Albany	Austin's BBQ and Oyster Bar,2820 Meredyth Dr, Albany, GA 31707	Alba
2	17284203	216	Albany	BJ's Country Buffet,2401 Dawson Rd, Albany, GA 31707	Alba
3	17284105	216	Albany	Cooke Shoppe,115 N Jackson St, Albany, GA 31701	Alba
4	17284302	216	Albany	El Vaqueo Mexican Restaurant,2700 Dawson Rd, Albany, GA 31707	Alba
5	17284397	216	Albany	Elements Coffee Co - Northwest,2726 Ledo Rd Ste 10, Albany, GA 31707	Alba
6	17284211	216	Albany	Pearly's Famous Country Cooking,814 N Slappey Blvd, Albany, GA 31701	Alba
7	17284094	216	Albany	Chick-fil-A,2703 Dawson Rd, Albany, GA 31707	Alba
8	17284409	216	Albany	Guang Zhou Chinese Restaurant,1214 N Westover Blvd, Albany, GA 31707	Alba
9	17284139	216	Albany	Harvest Moon,2347 Dawson Road, Albany, GA 31707	Alba
10	17284403	216	Albany	Henry Campbell's Steakhouse,629 N. Westover Blvd, Albany, GA 31707	Alba
11	17284145	216	Albany	Hong Kong Cafe,2700 Dawson Rd, Albany, GA 31707	Alba
12	17284150	216	Albany	House of China Restaurant II,2526 Dawson Rd Ste A, Albany, GA 31707	Alba
13	17284158	216	Albany	Jimmie's Hot Dogs,204 S Jackson St, Albany, GA 31701	Alba
14	17284175	216	Albany	Locos Grill & Pub,547 N Westover Blvd, Albany, GA 31707	Alba
15	17284179	216	Albany	Longhorn Steakhouse,2733 Dawson Rd, Albany, GA 31707	Alba
16	17284197	216	Albany	Mikata Japanese Steakhouse,2610 Dawson Rd, Albany, GA 31707	Alba
17	17284241	216	Albany	Shogun Japanese Steak House,629 N Westover Blvd, Albany, GA 31707	Alba
18	17284390	216	Albany	The Catch Seafood Room & Oyster Bar,2332 Whispering Pines Road, Albany, GA 31701	Alba
19	17284279	216	Albany	Villa Gargano,1604 N Slappey Blvd, Albany, GA 31701	Alba
20					

9 COLUMNS, 438 ROWS Column profiling based on top 1000 rows

Type here to search PREVIEW DOWNLOADED ON THURSDAY 12:09 22-03-2024

Dashboard



CONCLUSION

The 360-degree analysis of your online delivery app paints a comprehensive picture, highlighting its strengths in convenience, market demand, and potential for growth. However, the competitive landscape and operational challenges require careful consideration.

High Demand: Consumers increasingly value convenience, making online delivery a thriving sector.

Stiff Competition: The market is saturated with established players, demanding a strong value proposition.

Operational Efficiency: Streamlining logistics, delivery times, and driver management are crucial for success.

Profitability: Finding the right balance between commissions, fees, and user incentives is essential.

Technological Innovation: Embracing automation, real-time tracking, and AI can enhance user experience.

Looking Forward:

The online delivery app market offers immense potential, but success hinges on a well-defined strategy. Here are some concluding thoughts:

Niche Differentiation: Focus on a specific market segment (e.g., groceries, premium meals) or cater to underserved demographics.

Building Loyalty: Implement loyalty programs, offer subscriptions, and prioritize customer service to retain users.

Sustainability: Explore eco-friendly packaging and delivery options to attract environmentally conscious users.

Partnerships: Collaborate with local businesses and restaurants to expand your offerings and reach.

Data-Driven Decisions: Leverage user data to optimize pricing, delivery routes, and marketing campaigns.

By addressing these points and continuously adapting to the evolving marketplace, your online delivery app can carve out a sustainable and profitable niche within the competitive landscape. Remember, a focus on user experience, operational efficiency, and strategic differentiation will be key to your success.

FUTURE SCOPE

High Demand: Consumers increasingly value convenience, making online delivery a thriving sector.

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profile picture

Future scope (business analysis of online delivery app)

Show drafts

FUTURE SCOPE

The online delivery app industry is a dynamic space constantly evolving to meet consumer demands and technological advancements. Here's a glimpse into the future scope of this business:

Expanding Delivery Horizons:

Beyond Food: Look for growth in grocery delivery, medicine delivery, and even same-day delivery for a wider range of retail goods.

Hyperlocal Focus: Expect a rise in micro-delivery apps catering to specific neighborhoods, offering faster deliveries and supporting local businesses.

Drone Deliveries: Autonomous drone deliveries could revolutionize the industry, offering faster turnaround times and potentially reaching remote areas.

Innovation and Personalization:

AI-Powered Recommendations: Leveraging artificial intelligence to curate personalized recommendations for users based on their preferences and past orders.

Smart Kitchens and Automation: Integration with smart kitchen appliances and automation tools to streamline order processing and preparation.

Real-Time Tracking and Transparency: Enhanced visibility into order status, driver location, and estimated delivery times with real-time tracking updates.

Sustainability and Social Impact:

Eco-Friendly Packaging: A shift towards sustainable packaging solutions to minimize environmental impact.

Optimizing Delivery Routes: Utilizing AI to optimize delivery routes, reducing fuel consumption and emissions.

Supporting Local Businesses: Providing platforms for local businesses to reach a wider audience and promote community-driven commerce.

link

<https://github.com/SubithaKumar/SubithaKumar-.git>