

Product Analysis & & Improvising Strategy

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Product Introduction

"Food Ordering Platform: Transforming the Way We Dine"

- These platforms have seamlessly integrated technology with culinary experiences, reshaping the restaurant industry and consumer behaviour.
- Their convenience, variety, and efficiency have propelled them into the mainstream, creating a win-win situation for consumers and restaurants alike.

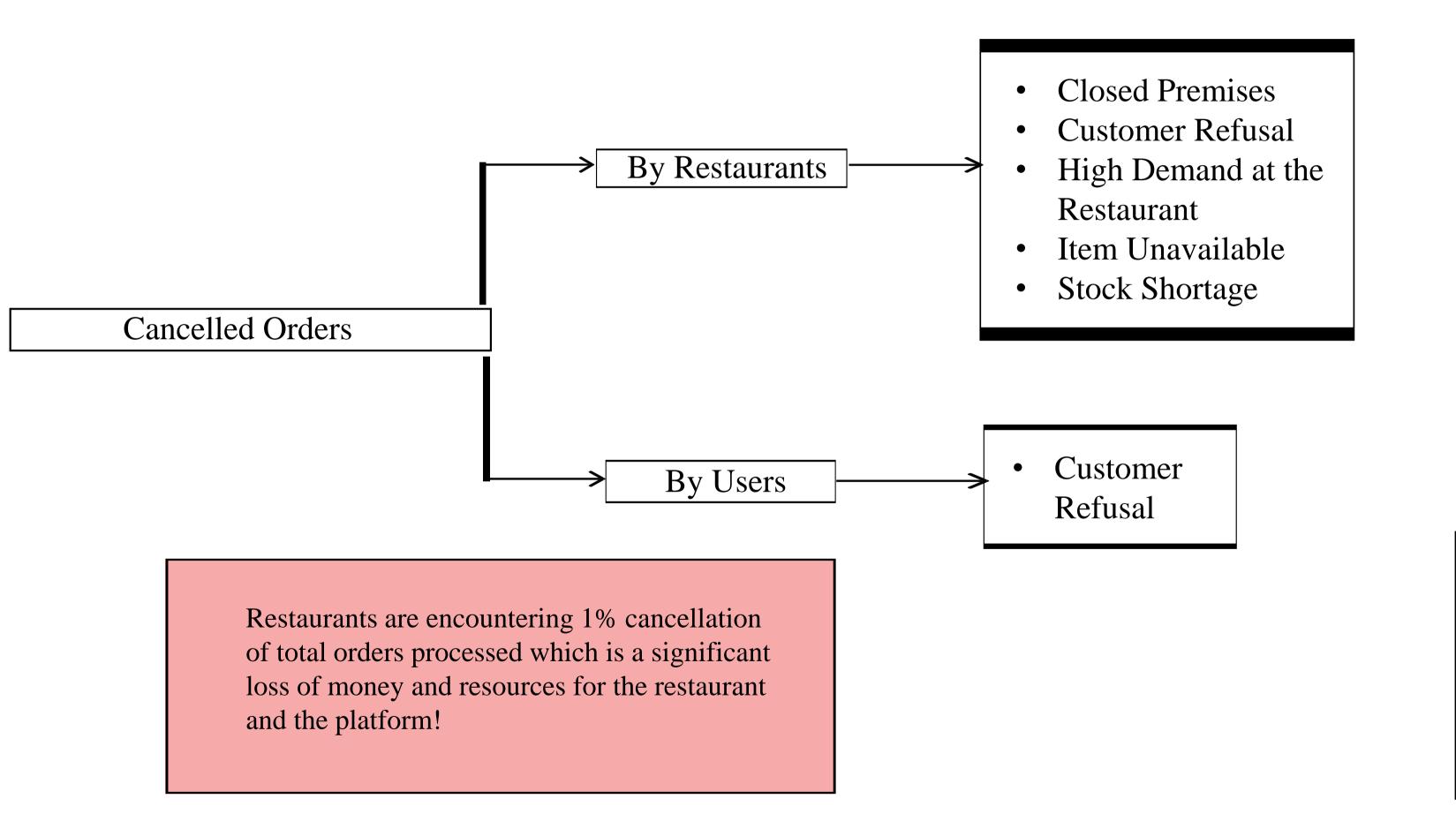
Goals

1. How can we minimize the order cancellation while ensuring the user satisfaction.

2. Suggesting actionable insights, areas of improvement and areas of opportunity.



Problem Identification



Items Category

- Packaged
- Buffet
- Non-MRP

Solution Mapping

Method used to reach the Solution

We are using the "CIRCLES Method" to make a thorough and thoughtful response.

- > Comprehending the situation (Identifying the goal)
- > Identifying the target user
- > Cut through prioritization
- ➤ Listing Solutions
- > Evaluating Tradeoff
- > Summarizing

Tools Used for Analysis

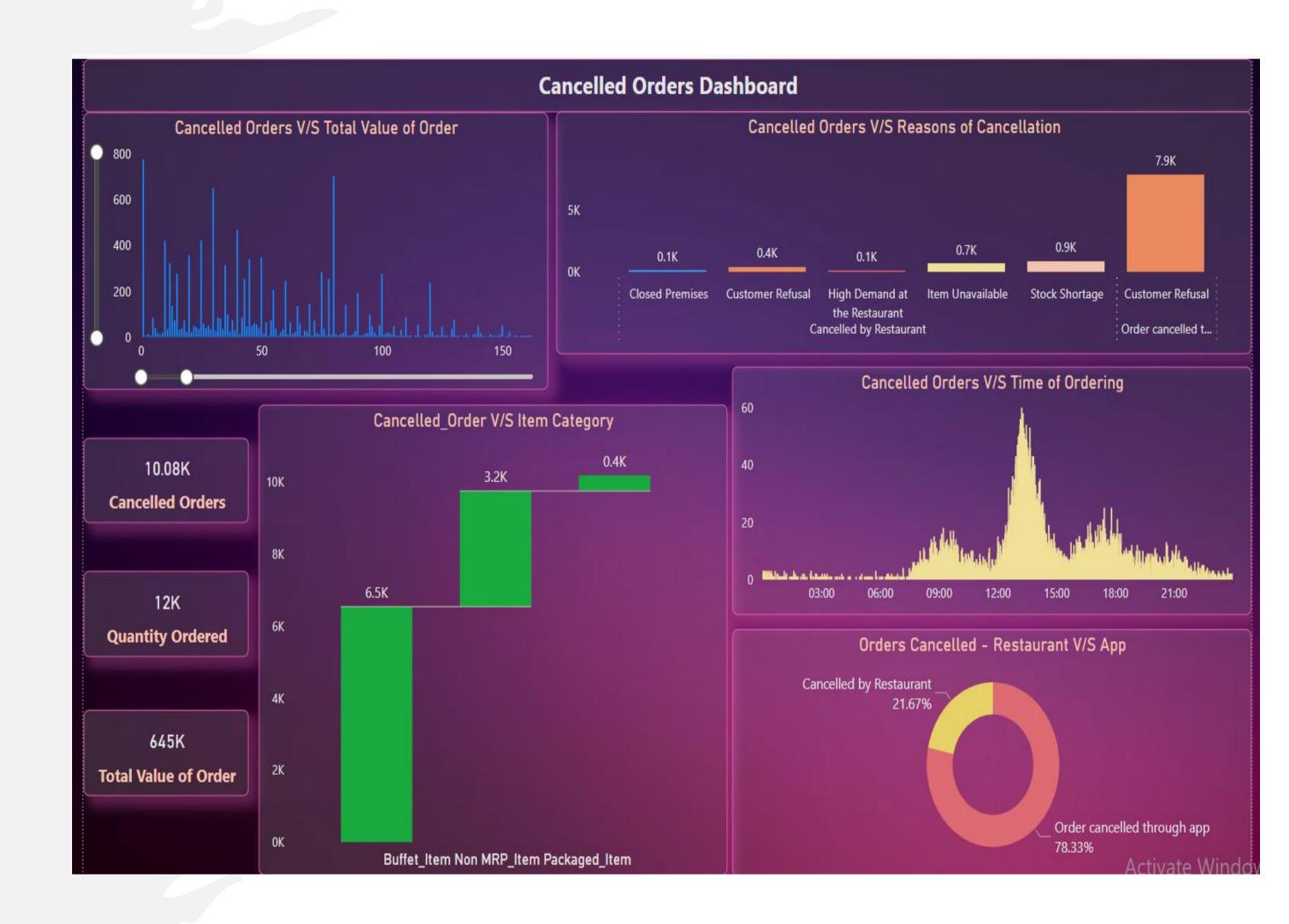
- MySQL: Used here to join the tables and draw meaningful insights by grouping the results based on various parameters.
- **Microsoft Power BI**: Used extensively here to visualize the data and to create interactive and dynamic dashboard containing visual inputs (Graphs) between various parameters.
- Microsoft Excel: Used mainly for the data cleaning and processing.

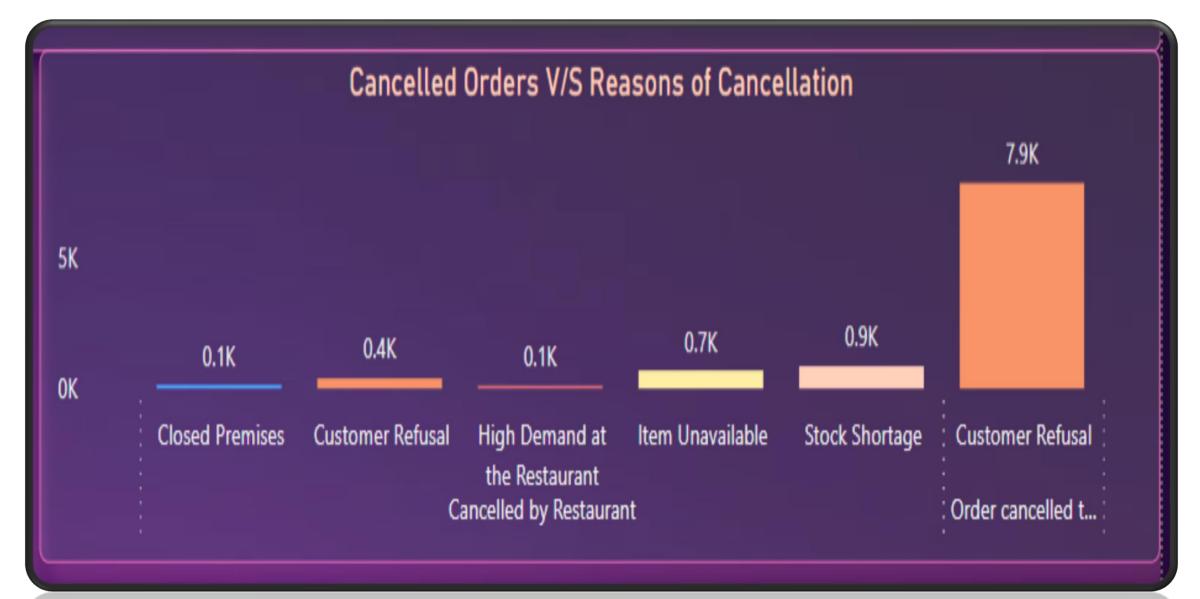


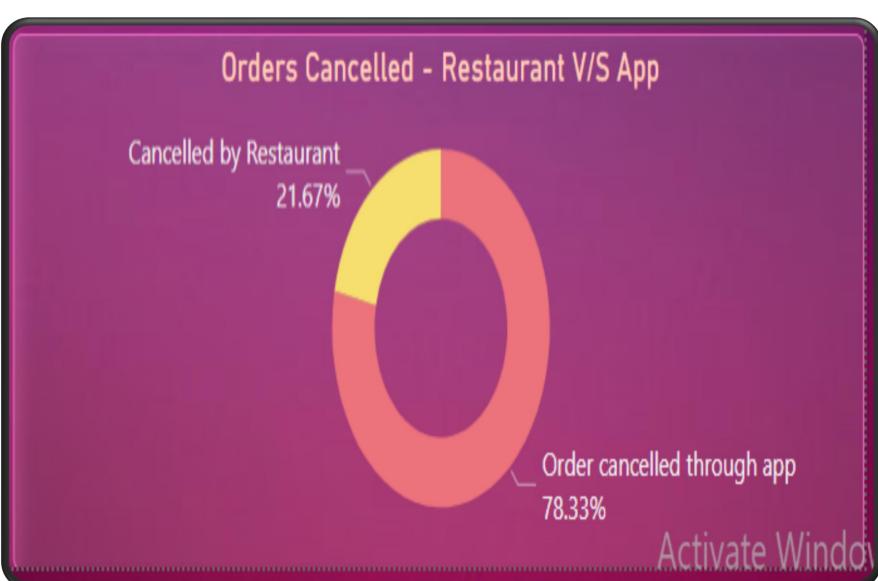
Dashboard

- Made "Fully Interactive Dashboard" by using "Power BI".
- Various types of plots used to effectively visualize the data.
- Use of cards to showcase more important information at first glance.
- Link:

https://github.com/Djain1105/Product_A nalysis/blob/main/HungerBox_Project.p bix







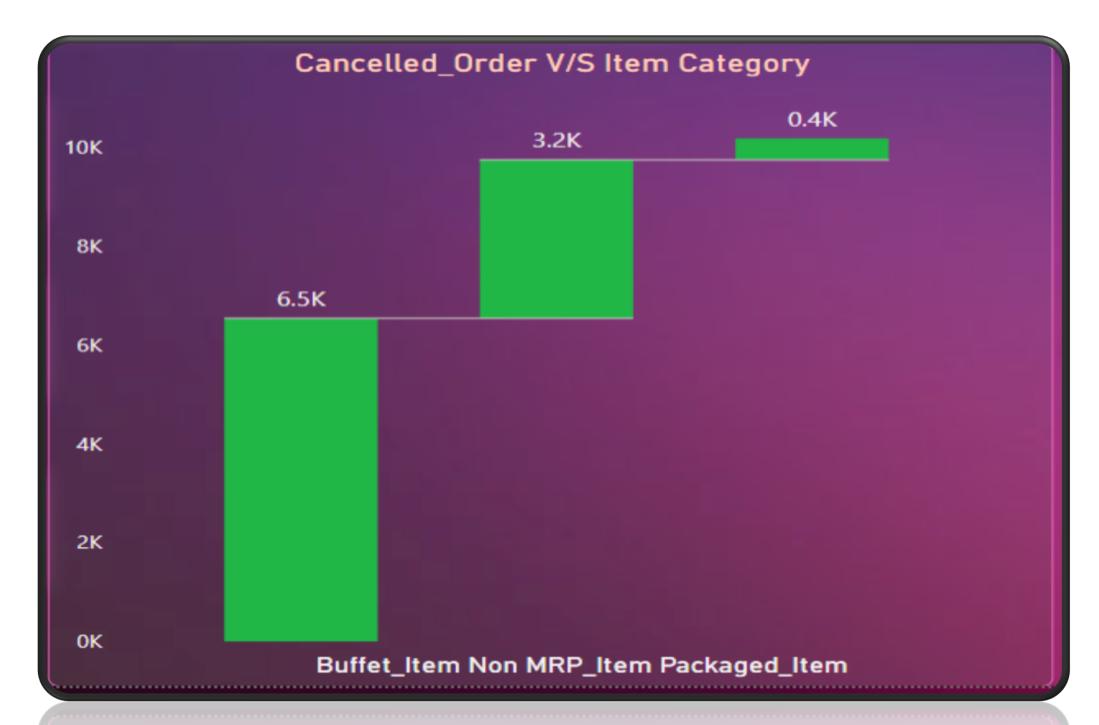
Takeaway Points

- Orders are cancelled more at the user end as compared to that by restaurant.
- Main Reason for cancellation at user end is "Customer Refusal"
- Main Reasons for cancellation at restaurant end are "Stock Shortage" and "Item Unavailable"

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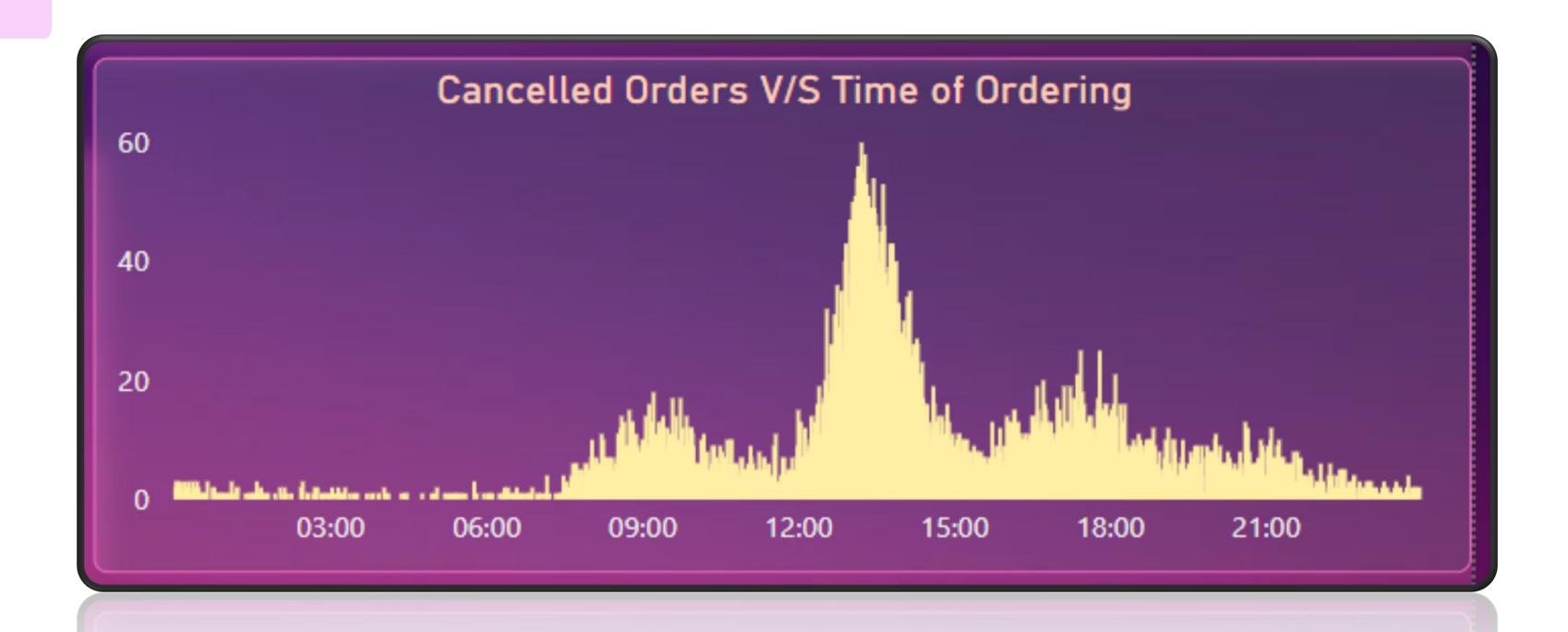
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Buffet_Item Non MRP_Item Packaged_Item

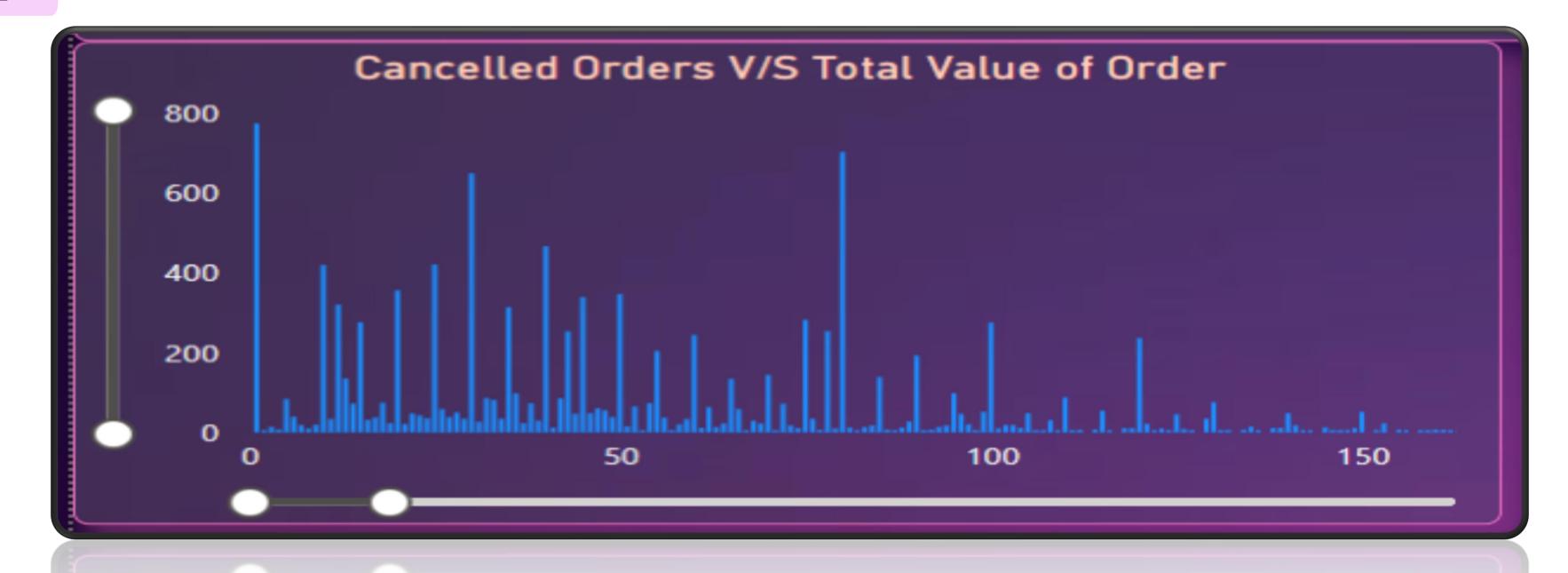
Takeaway Points

- "Buffet Items" are cancelled the most in all categories available
- "Packaged Items" are least cancelled in all categories available



Takeaway Points

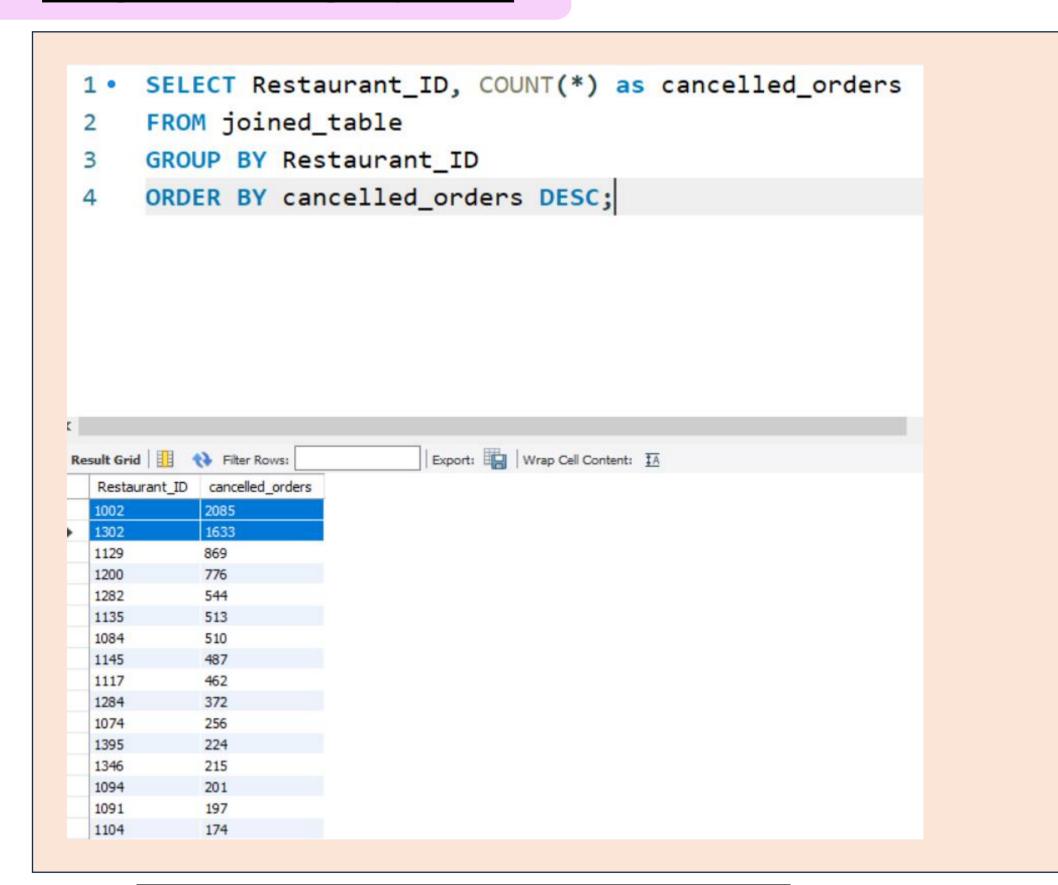
- "Maximum cancellation of orders" occurs between 12:00 PM to 3:00PM
- There is also a good number of orders cancelled between 4:00 PM to 7:00 PM
- "Least Orders are cancelled" in between 12:00 AM to 6:00 AM



Takeaway Points

- Orders with total value between 10 to 100 are the most to be cancelled with the peak occurring between 70 to 90.
- Some orders are also placed with 0 Value (Thus gets cancelled).

Insight 5 (Using MySQL)



SELECT Product_ID, Product_Name, COUNT(*) as cancelled_orders FROM joined_table GROUP BY Product_ID, Product_Name ORDER BY cancelled_orders DESC; Export: Wrap Cell Content: IA Result Grid Filter Rows: Product_ID Product_Name cancelled_orders Veg Lunch Breakfast Non-Veg Lunch 49 Breakfast 41 556725 Non Veg Lunch Lunch Combo 1 732377 639420 North Lunch (Veg) 650362 Foodie Friday 501484 Veg Lunch Combo (Limited Meals) 38 Avakaya Chicken Pul... 38 677227 Ginger Tea 501366 Breakfast 35 501406 Veg Lunch 715838 Ginger Masala Tea

Takeaway Points

• Restaurants with the ID's "1002" & "1302" are having the maximum cancelled orders.

Takeaway Points

• Products with ID's "501401", "732375" & "481258" are having maximum cancellation.

723029

Flex Dinner Veg

Actionable Insights & Improvising Strategies

- ➤ The Restaurants cancelling the orders because of "Stock Shortage" & "Item Unavailable" should be suggested to 'Increase and manage their inventories' effectively to serve as per the customer requirements.
- > The Buffet Items and Non-MRP items should be reviewed on a regular basis to ensure that there is quality is well maintained and these products should also be customized according to the customer needs.
- ➤ The Restaurants should double check the orders coming between 12:00 PM to 3:00 PM to maintain the quality up to the mark and not diminishing the quality because of large number of orders.
- > Restaurants should not compromise with the quality and service even if the total value of order is less. They should maintain their delivery standards to see positive outcomes.
- ➤ The Restaurants with ID's "1002" & "1302" should be treated specifically to resolve their problems and thereby decreasing their count of cancelled orders.
- ➤ All Restaurants should work more to improve the standards of the Products with ID's "501401", "732375" & "481258" according to the consumer's taste and requirements.
- For analysing the root cause of cancellation of orders at user end, more user-oriented data will be required like their age group, profession, gender, etc.

Summary

We analysed the data for a "Food Delivery Platform" using various tools like 'Power BI', 'SQL' & 'Excel'.

We generated a dashboard (using Power BI) that enabled us to compare the count of cancelled orders against various parameters like reason of cancellation, total value of order, time of order, etc.

Also, we used SQL to gain insights for the restaurants and products with maximum order cancellation.

Finally, using these insights we generated a report which will help the platform to find and eliminate the causes of such cancellation.

Project Link:

https://github.com/Djain1105/Product_Analysis