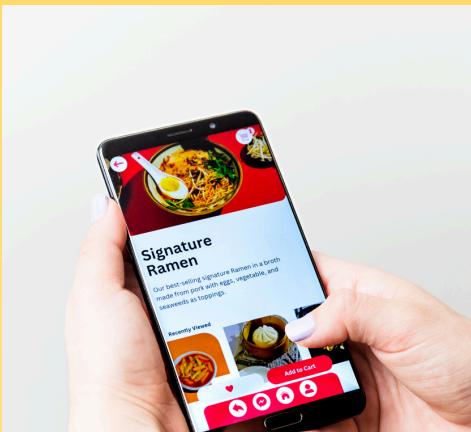


Online Food Delivery SQL Project

DOMAIN: E-COMMERCE

Amar Adagale
amaradagale93@gmail.com



August,2025

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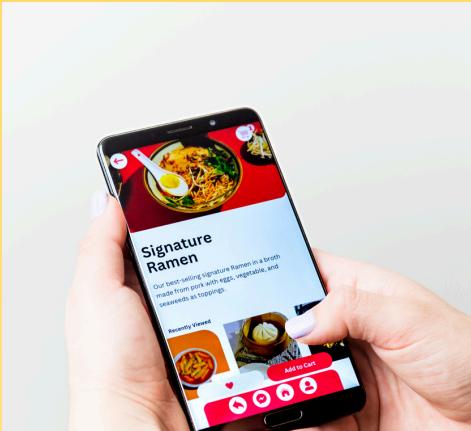
3. E-R Diagram PK , FK keys and relationship

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Objective

This project aims to analyze a real-world dataset using SQL. It focuses on uncovering insights using various SQL queries, including summary statistics, relational operations, and data filtering. The insights are further visualized to support decision-making.



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Dataset Description

Name: Online Food Delivery Dataset

Number of Tables: 5

Total Rows: Approx. 500

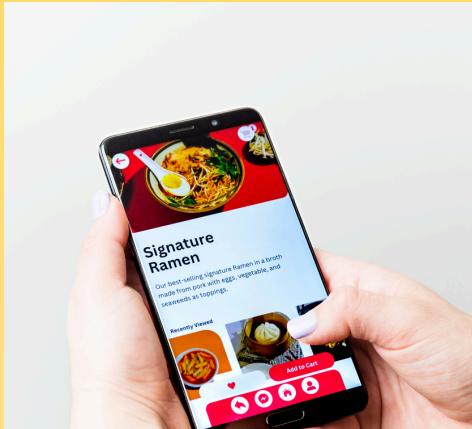
Table Name	Description
menu_item	information of items available in resturant
customers	Customer details like ID, name, city email_id , signup-date
orders	Order-level details like orders_id, customer_id , resturant_id order_date
order_details	Line-item data for each order
resturants	resturant data like name, city , id , register_date



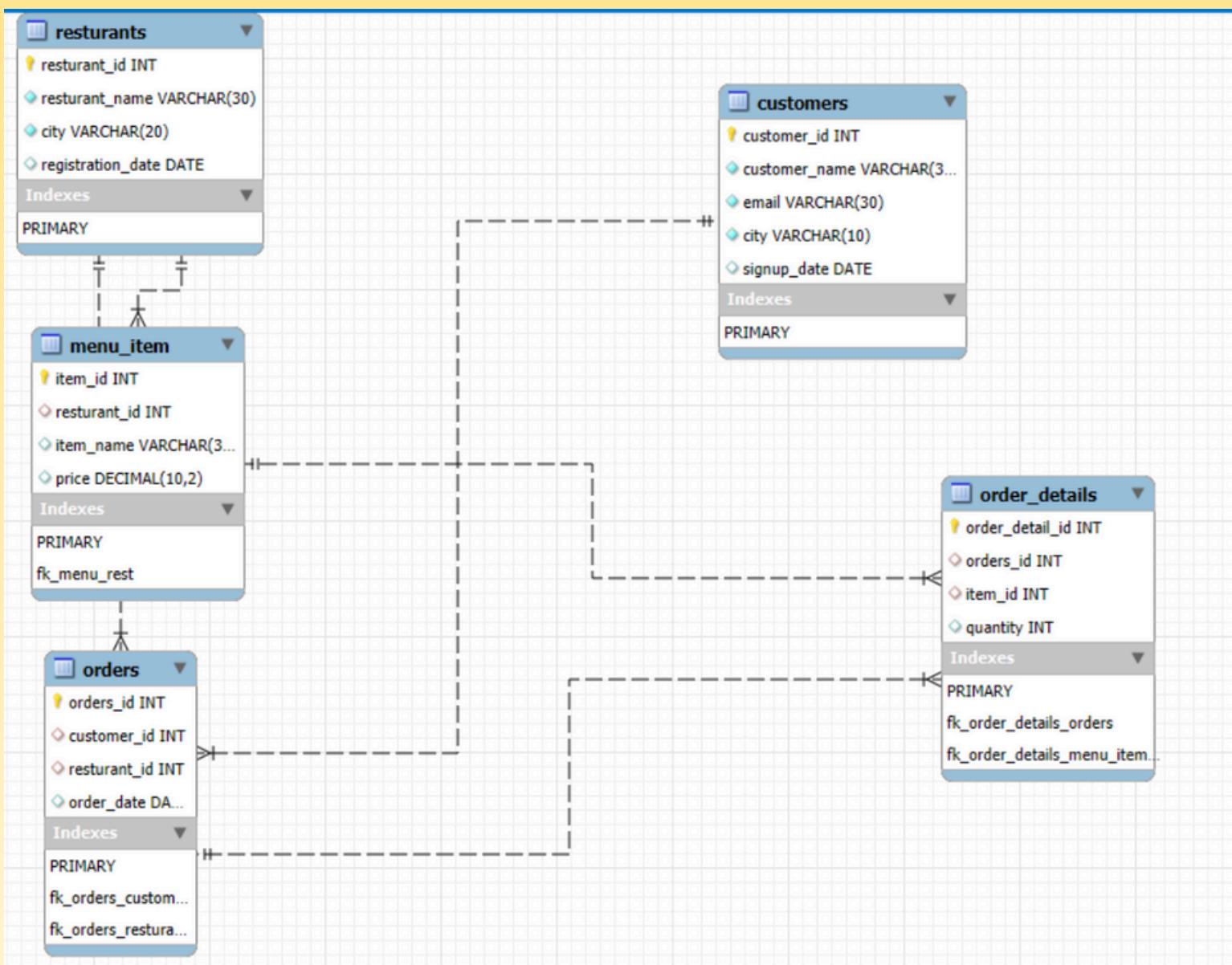
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ER Diagram

Primary and Foreign Keys Relationships



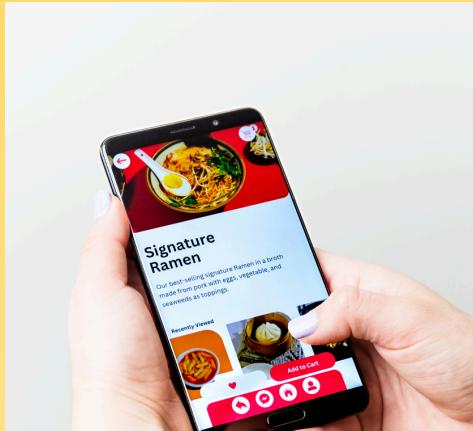
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Queries Questions

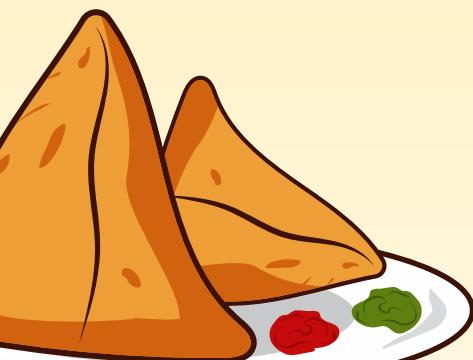


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Q1: Total Orders by City

```
select r.city , count(o.orders_id) as total_order  
from orders o join restaurants r  
on o.restaurant_id = r.restaurant_id  
group by r.city  
order by total_order desc;
```

Result Grid		
	city	total_order
▶	Jaipur	290
	Hyderabad	197
	Delhi	184
	Pune	166
	Surat	166
	Chennai	162
	Bangalore	116
	Kolkata	95
	Mumbai	65
	Ahmedabad	59





Q2: Revenue Generated By Each Food Item

```
select sum(m.price * od.quantity) as Total_Revenue , m.item_name  
from menu_item m join order_details od  
on m.item_id = od.item_id  
group by m.item_name  
order by Total_Revenue desc;
```

Total_Revenue	item_name
232477.77	Aloo Paratha
212755.37	Fish Curry
205411.68	Hakka Noodles
203851.14	Momos
185606.53	Paneer Tikka
168535.39	Paneer Butter Masala
135449.46	Gulab Jamun
133409.96	Samosa Chaat
129444.27	Masala Dosa
126507.73	Dal Tadka



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Q3: Top 5 Spending Customers

```
select c.customer_name , sum(o.orders_id) as Total_spend  
from customers c join orders o  
on c.customer_id = o.customer_id  
group by c.customer_name  
order by Total_spend desc  
limit 5 ;
```

	customer_name	Total_spend
▶	Vihaan Patel	29741
	Arjun Mehta	29105
	Muhammad Patel	24402
	Sai Verma	24160
	Reyansh Verma	23603



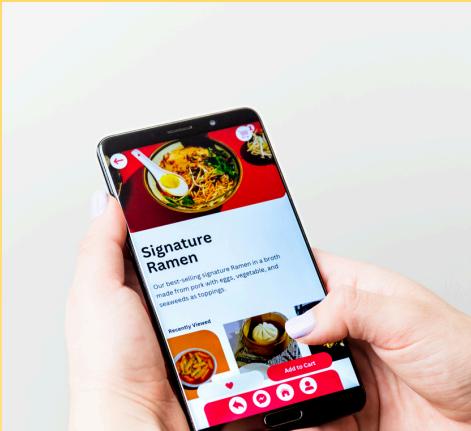


Q4: Resturant Wise Order Count

```
select count(o.orders_id), restaurant_name as restaurant_name
from resturants r join orders o
on r.restaurant_id = o.restaurant_id
group by r.restaurant_name
order by count(o.orders_id) desc;
```

	count(o.orders_id)	restaurant_name
▶	90	Golden Garden
	71	Spice Palace
	68	Tasty Bistro
	66	Big Table
	61	Flavors Corner
	59	Happy Corner
	59	Royal Garden
	58	Flavors Kitchen
	56	Little Palace
	56	Fresh Palace





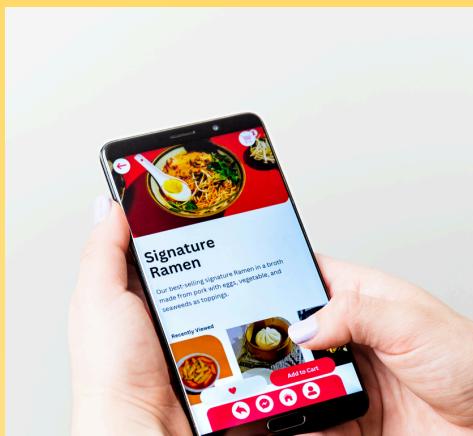
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Q5: Average Order Value Per city

```
select c.city , avg(o.orders_id) as Average_order_value  
from customers c join orders o  
on c.customer_id = o.customer_id  
group by c.city  
order by Average_order_value desc;
```

Result Grid		
	city	Average_order_value
▶	Bangalore	821.5161
	Delhi	798.8837
	Ahmedabad	763.3827
	Hyderabad	756.3731
	Chennai	744.6441
	Surat	742.2444
	Kolkata	726.6364
	Mumbai	721.5909
	Pune	720.3975
	Jaipur	711.8208





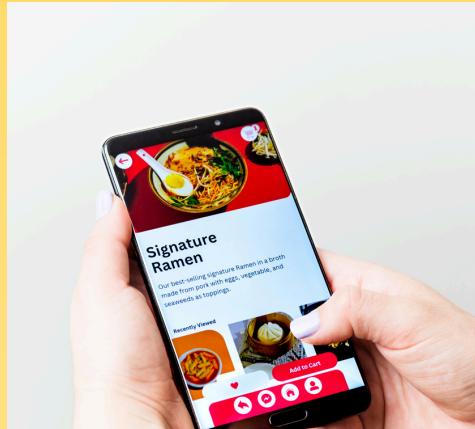
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Q6: Monthly Orders Trends

```
select month(order_date) as No_of_Month ,monthname(order_date) as Name_of_Month,  
count(orders_id) as No_of_Orders  
from orders  
group by month(order_date) , monthname(order_date)  
order by No_of_Month ;
```

	No_of_Month	Name_of_Month	No_of_Orders
►	1	January	145
	2	February	137
	3	March	143
	4	April	142
	5	May	152
	6	June	147
	7	July	126
	8	August	107
	9	September	107
	10	October	105





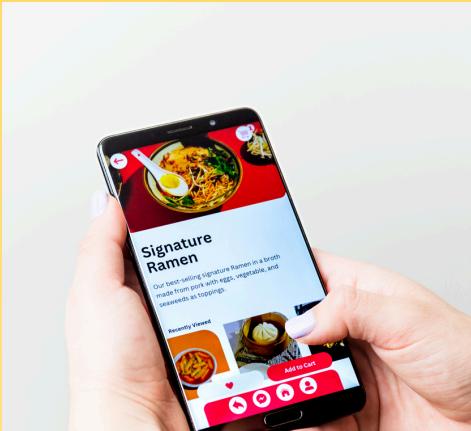
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Q7: Top 3 Cities By Revenue

```
select c.city , sum(m.price*od.quantity) as Total_Revenue  
from customers c join orders o  
on c.customer_id = o.customer_id  
join order_details od  
on o.orders_id = od.orders_id  
join menu_item m  
on m.item_id = od.item_id  
group by c.city  
order by Total_Revenue desc limit 3 ;
```



	city	Total_Revenue
▶	Chennai	349264.89
	Pune	305873.68
	Bangalore	299747.65



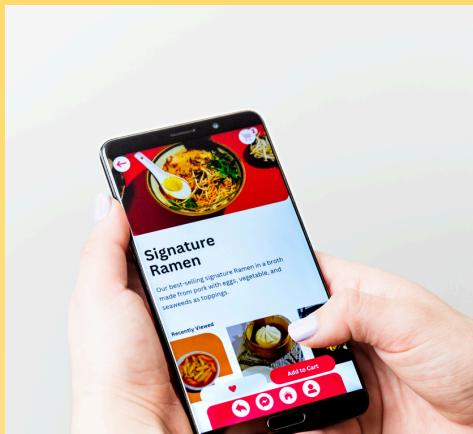
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Q8: Number of Unique customer per city

```
select city, count(distinct customer_id) as unique_customers  
from customers  
group by city  
order by unique_customers desc ;
```

	city	unique_customers
▶	Ahmedabad	58
	Chennai	56
	Kolkata	56
	Mumbai	54
	Pune	50
	Delhi	49
	Surat	48
	Bangalore	47
	Hyderabad	43
	Jaipur	39





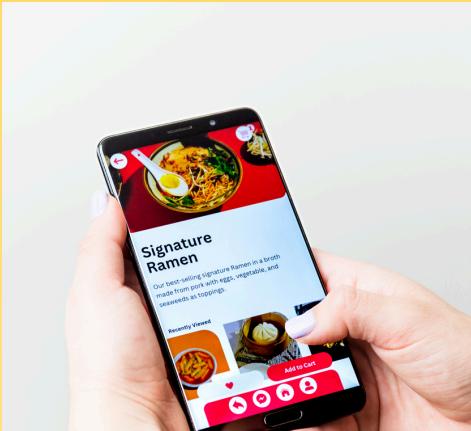
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Q9: Most frequent Order Items

```
select m.item_name , count(o.orders_id) as No_of_order_count  
from menu_item m join orders o  
on m.restaurant_id = o.restaurant_id  
group by m.item_name  
order by count(o.orders_id) desc;
```

	item_name	No_of_order_count
▶	Fish Curry	588
	Paneer Tikka	570
	Aloo Paratha	552
	Momos	526
	Paneer Butter Masala	474
	Gulab Jamun	425
	Dal Tadka	406
	Chicken Biryani	387
	Masala Dosa	387
	Hakka Noodles	381



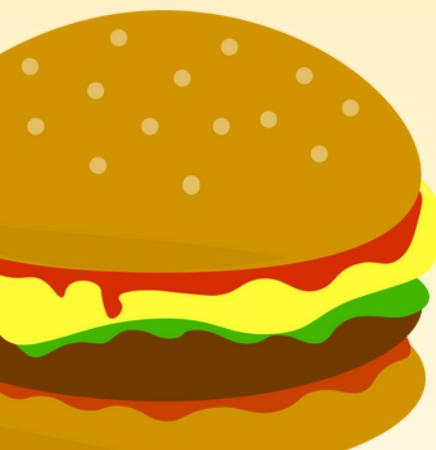


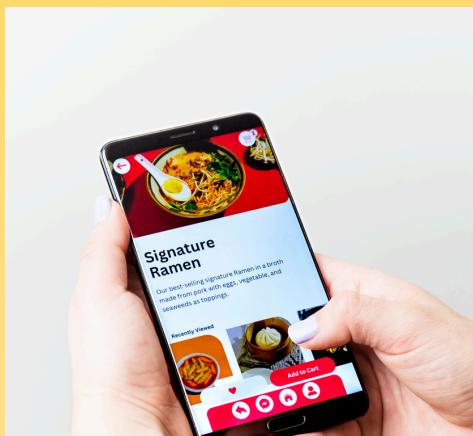
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Q10: Resturant with low Order Count < 30

```
select r.restaurant_name , r.restaurant_id , count(o.orders_id) as No_of_Orders  
from restaurants r  join orders o  
on r.restaurant_id = o.restaurant_id  
group by r.restaurant_id , r.restaurant_name  
having count(o.orders_id)< 30;
```

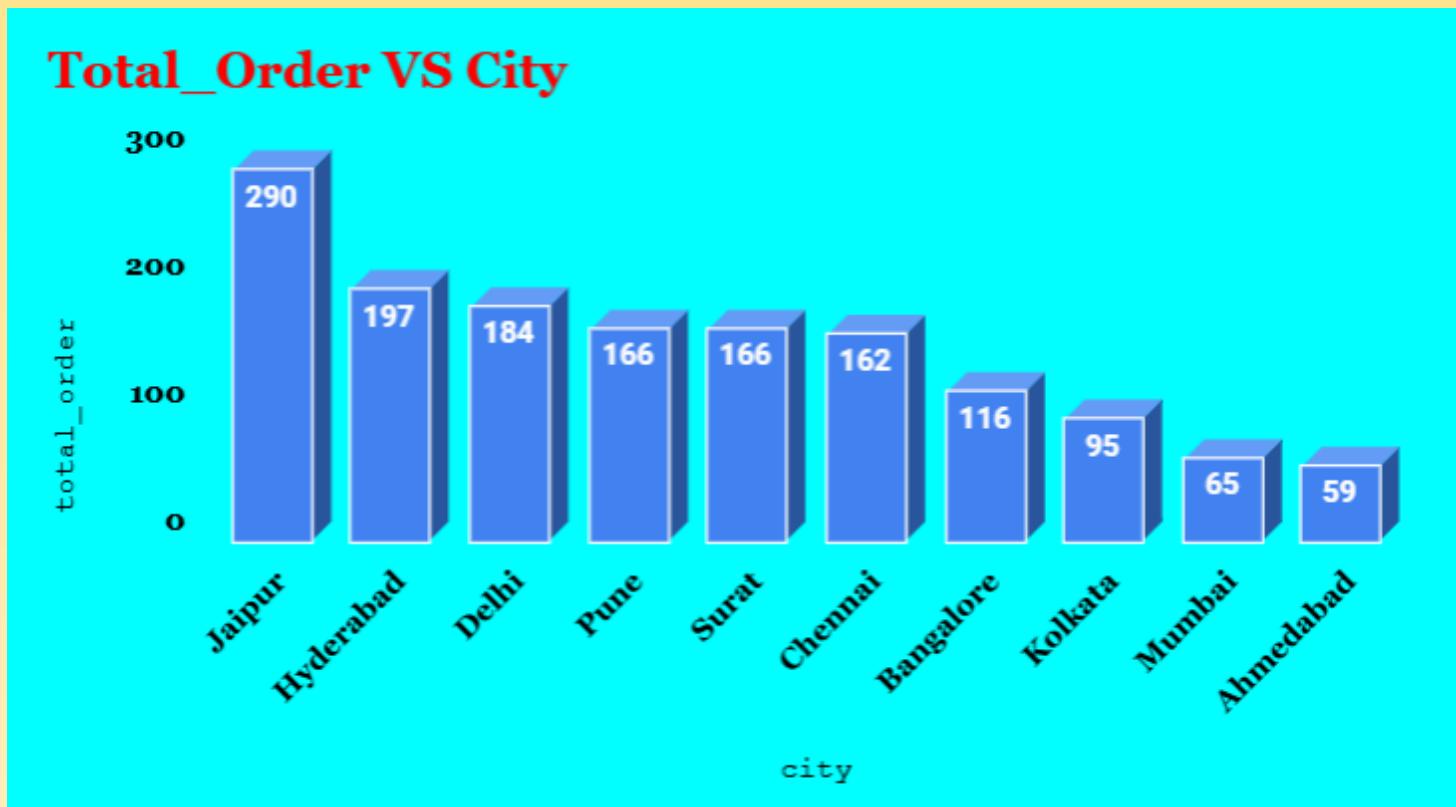
	restaurant_name	restaurant_id	No_of_Orders
▶	Fresh Hub	1	27
	Big Diner	2	20
	Big Corner	3	26
	Royal Hub	4	26
	Royal Garden	8	24
	Fresh Palace	9	28
	Flavors Corner	10	27
	Flavors Palace	13	22
	Golden Garden	14	24
	Golden Garden	15	28





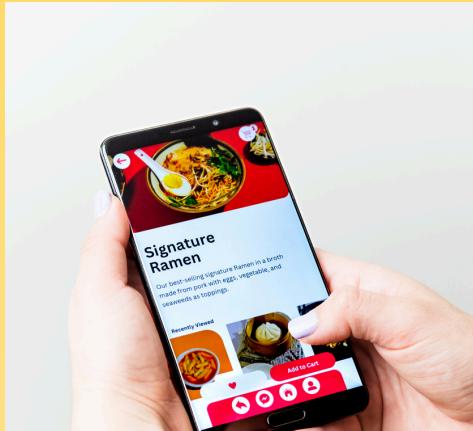
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Visualization & Insights



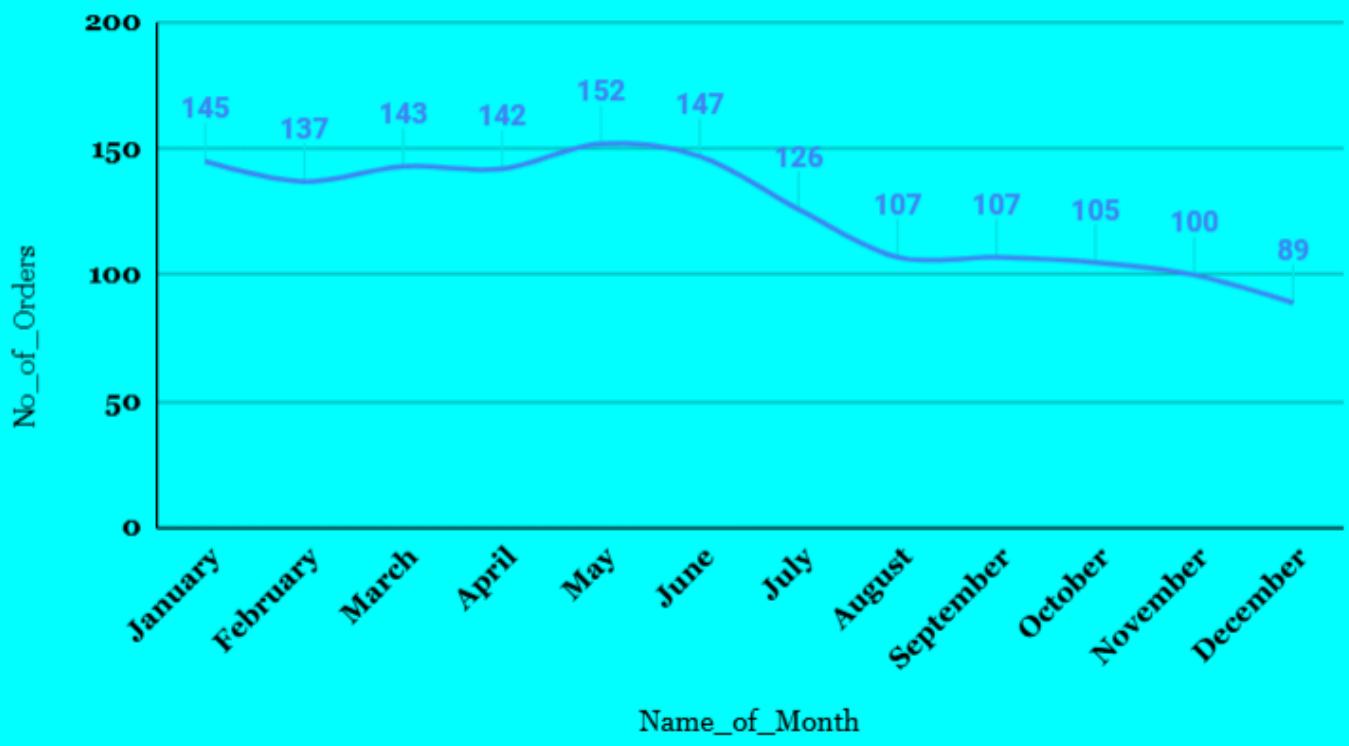
- **Cities with Higher Number of orders**
- **Active Markets , Expansion Statergy**
- **Focus on which cities were need to Improve**





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No_of_Orders VS Name_of_Month

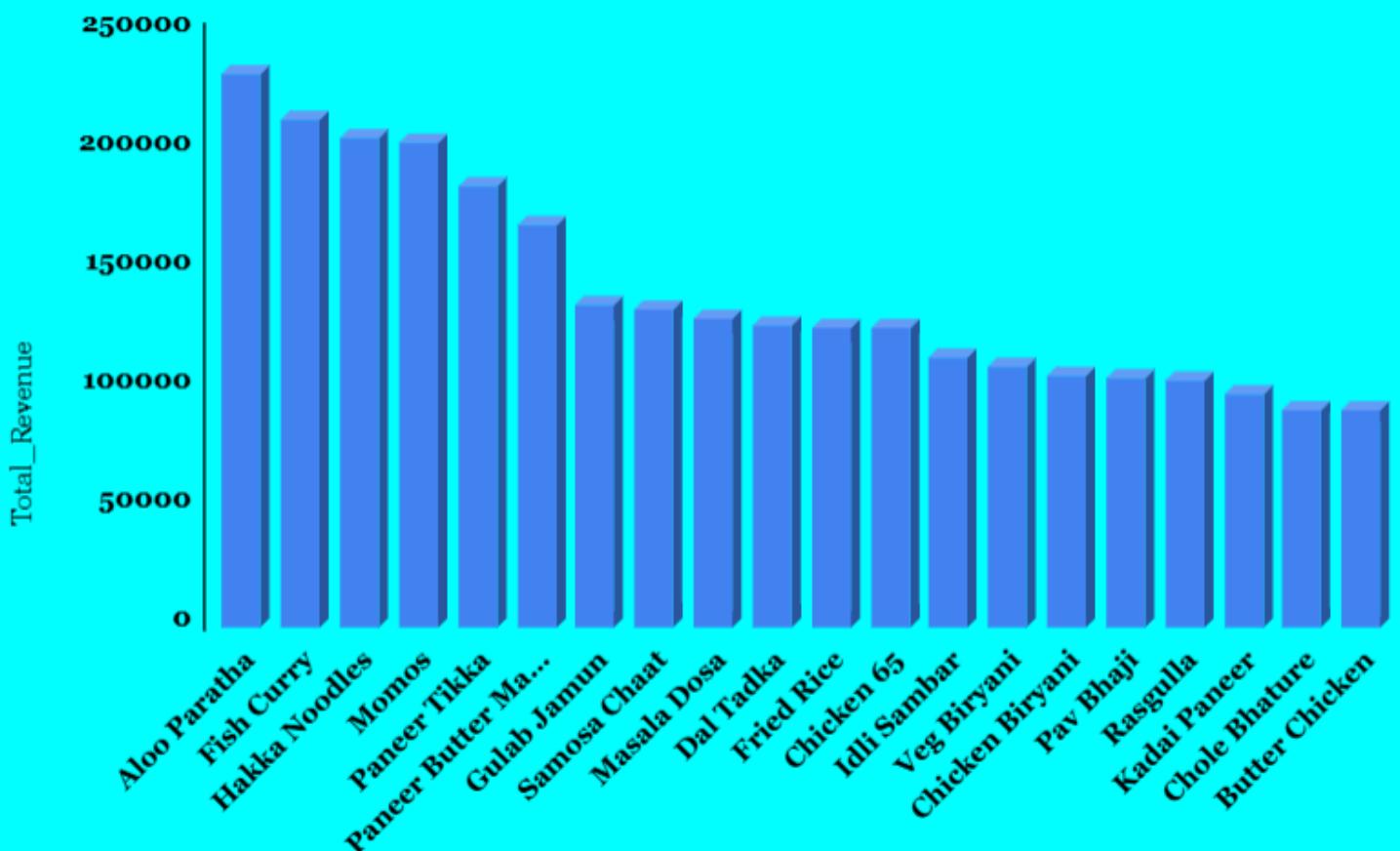


- Yearly trends performance
- Order Drop Points where Depecit Happens
- This Helps to Knowing Reason of depecit





Total_Revenue VS Item_Name



- Best Performing Food Items more Profits
- Menu Optimization Opportunity
- Potential for targeted food items



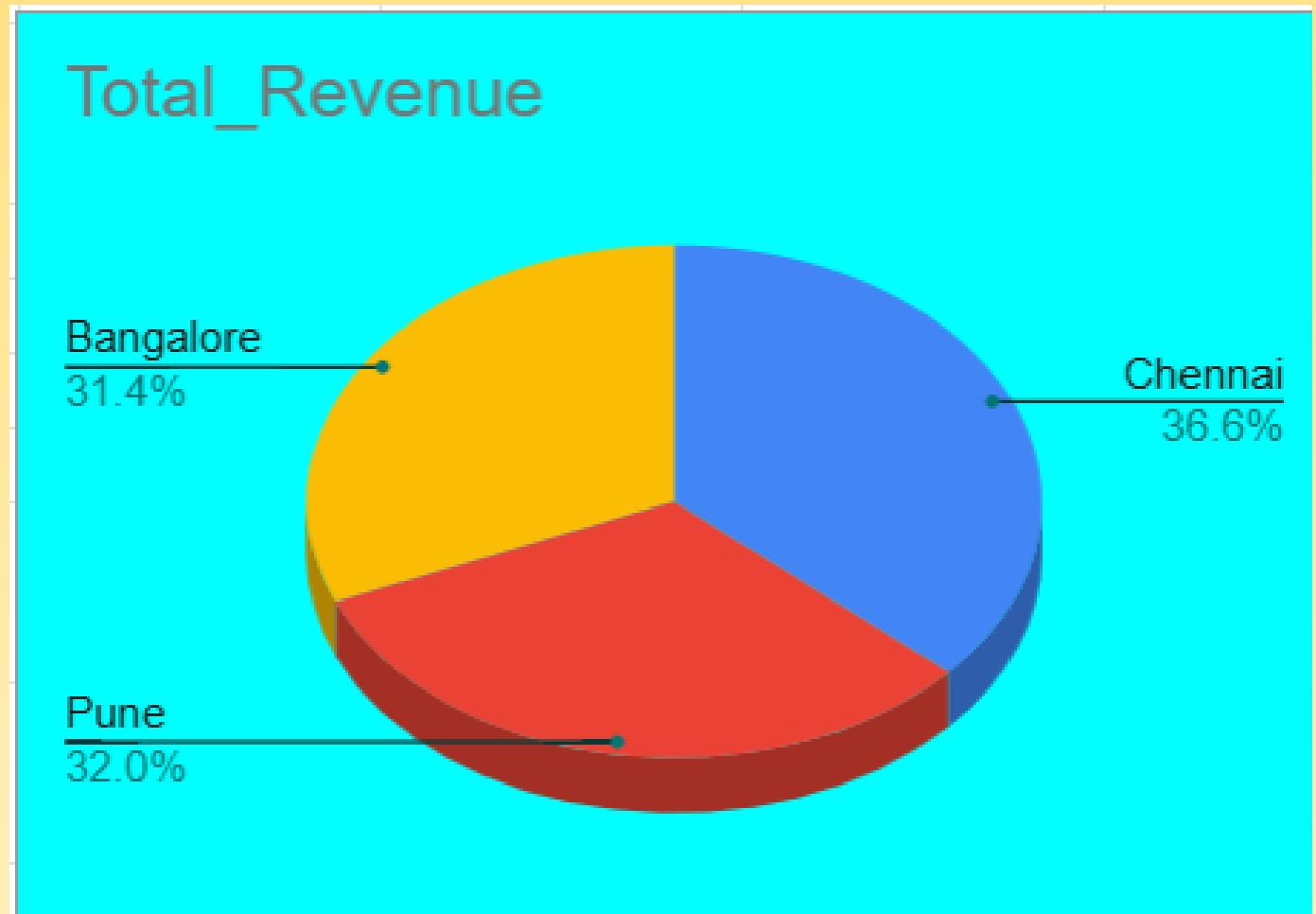
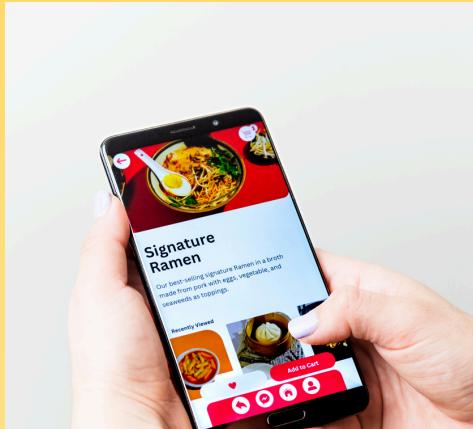


unique_customers vs. city



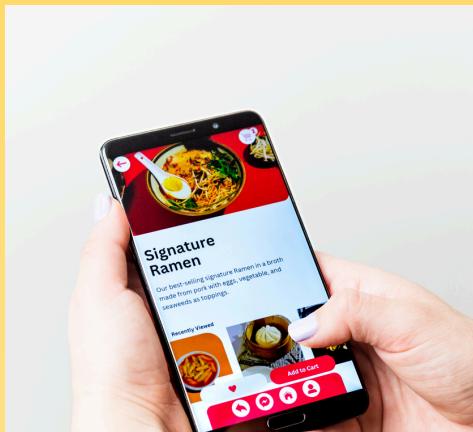
- **New Customers From Each Cities**
- **Provide the offers or Royalty Program to make them Loyal**





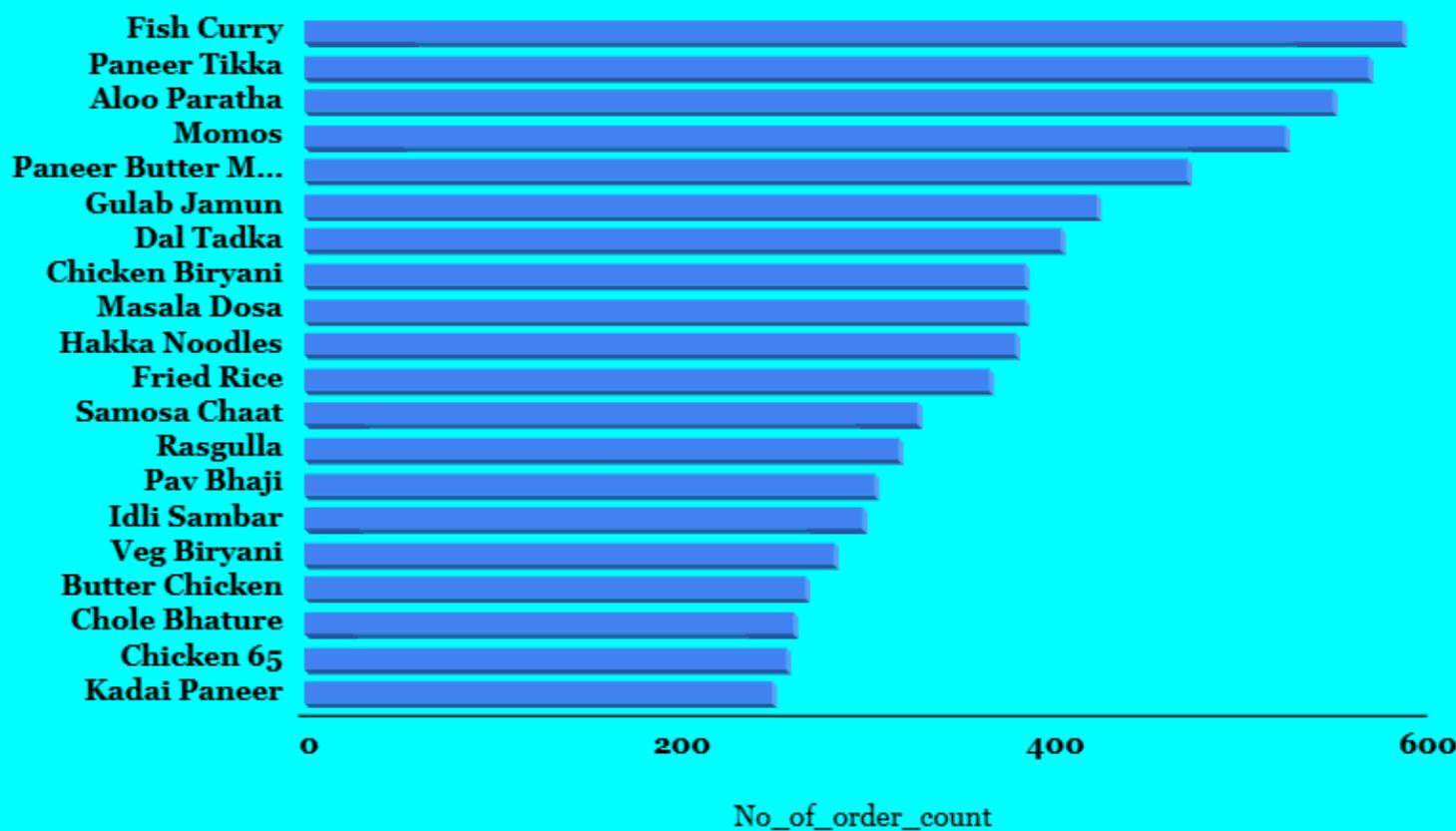
- Top 3 Cities which give More Revenue %
- In above analysis all cities contributes equal approx





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No_of_order_count vs. item_name

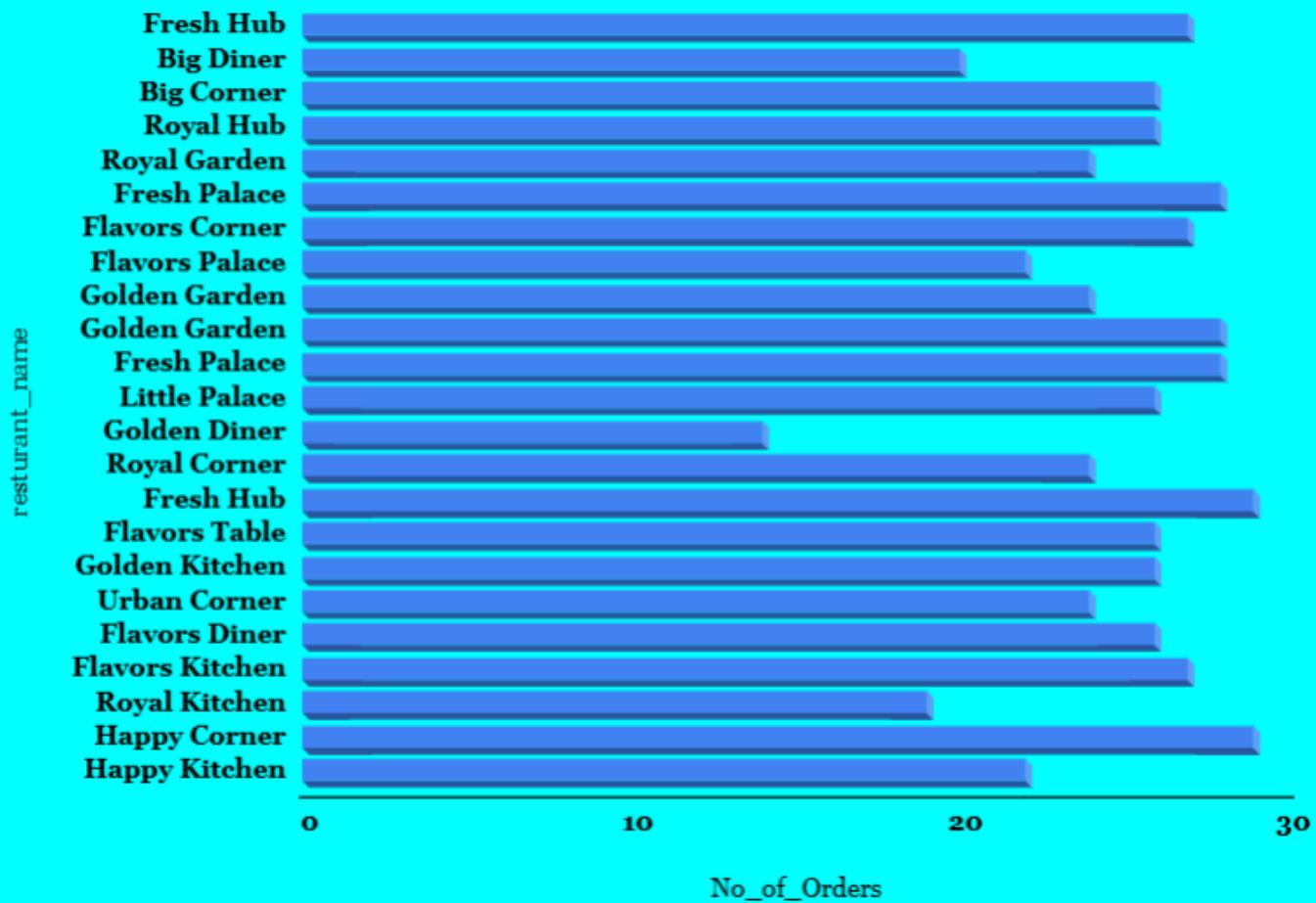


- Customer Preference Food Items
- the Food Items have High demands increase its availability.





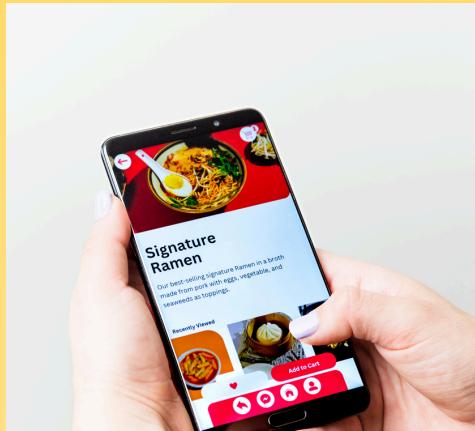
No_of_Orders vs. resturant_name



- Easily Differentiate the under Performing ones
- The Resturant which has higher Preference from customers



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Conclusion

Wrap up the project with:

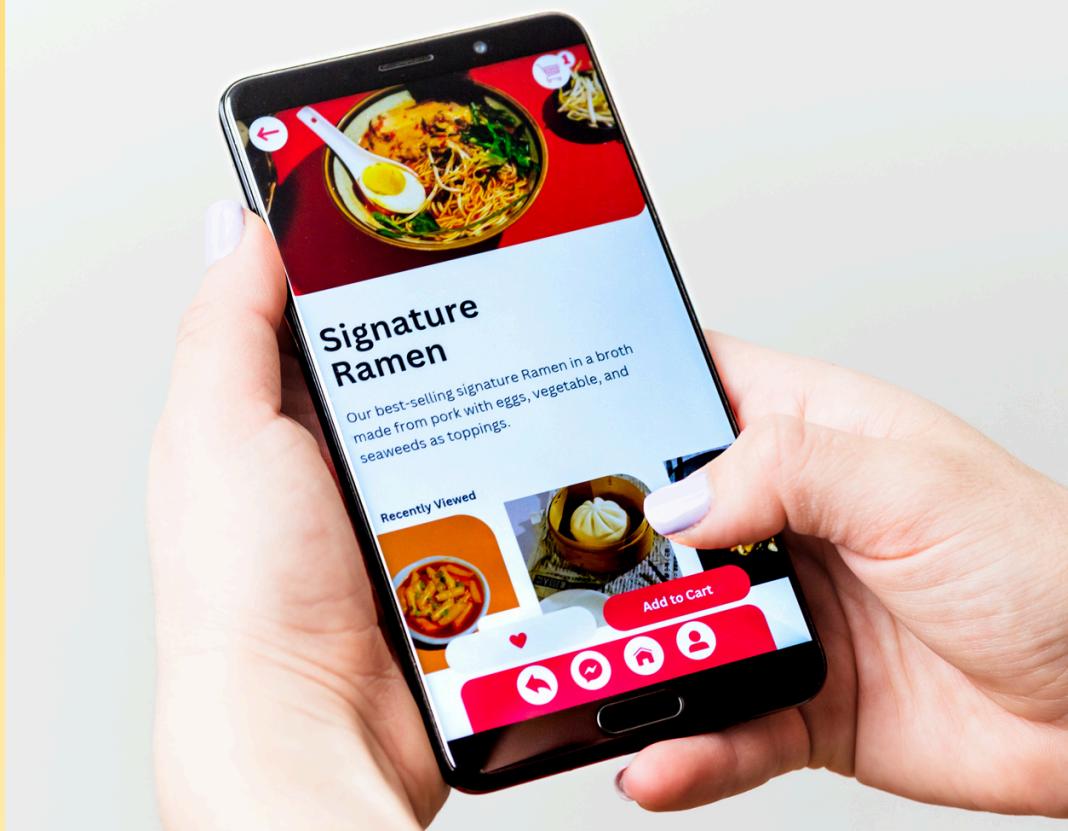
This SQL-based analysis provided clear insights into customer behavior and product trends. The skills gained here are applicable in real-world analytics scenarios.





The Green Thump
Conservation Society

August, 2025



THANK YOU