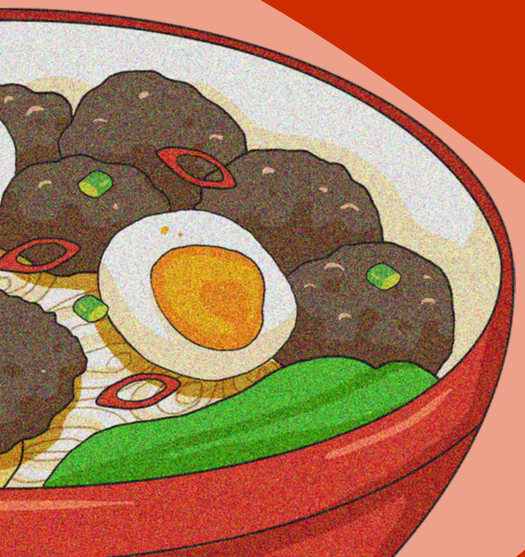
SWIGGY CASE STUDY

SUBTITLE: A DATA-DRIVEN EXPLORATION OF POPULARITY AND PATTERNS IN DELIVERY



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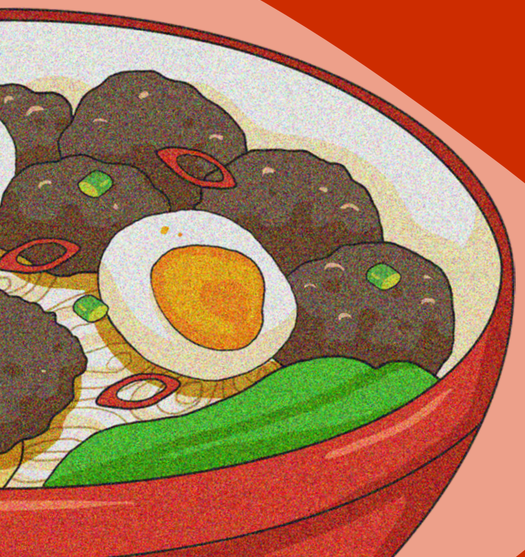
HELLO

I’m Priya Chakradhari. In this project, I have utilized SQL queries to analyze the Swiggy dataset and answer various questions related to food trends and order patterns in different cities and areas



AGENDA

- INTRODUCTION TO THE DATABASE
- DATABASE SCHEMA
- TABLE DESCRIPTIONS
- BASIC QUERY’S
- JOINS QUERY’S
- WINDOW FUNCTION QUERY’S
- SUBQUERY

INTRODUCTION OF SWIGGY DATASET

The Swiggy dataset provides a comprehensive view of the food delivery service's operations, capturing data across various dimensions essential for analyzing and optimizing the business. The dataset includes the following tables:

- Delivery_partner
- Food
- Order_details
- Menu
- Orders
- Restaurants
- User

DATABASE SCHEMA

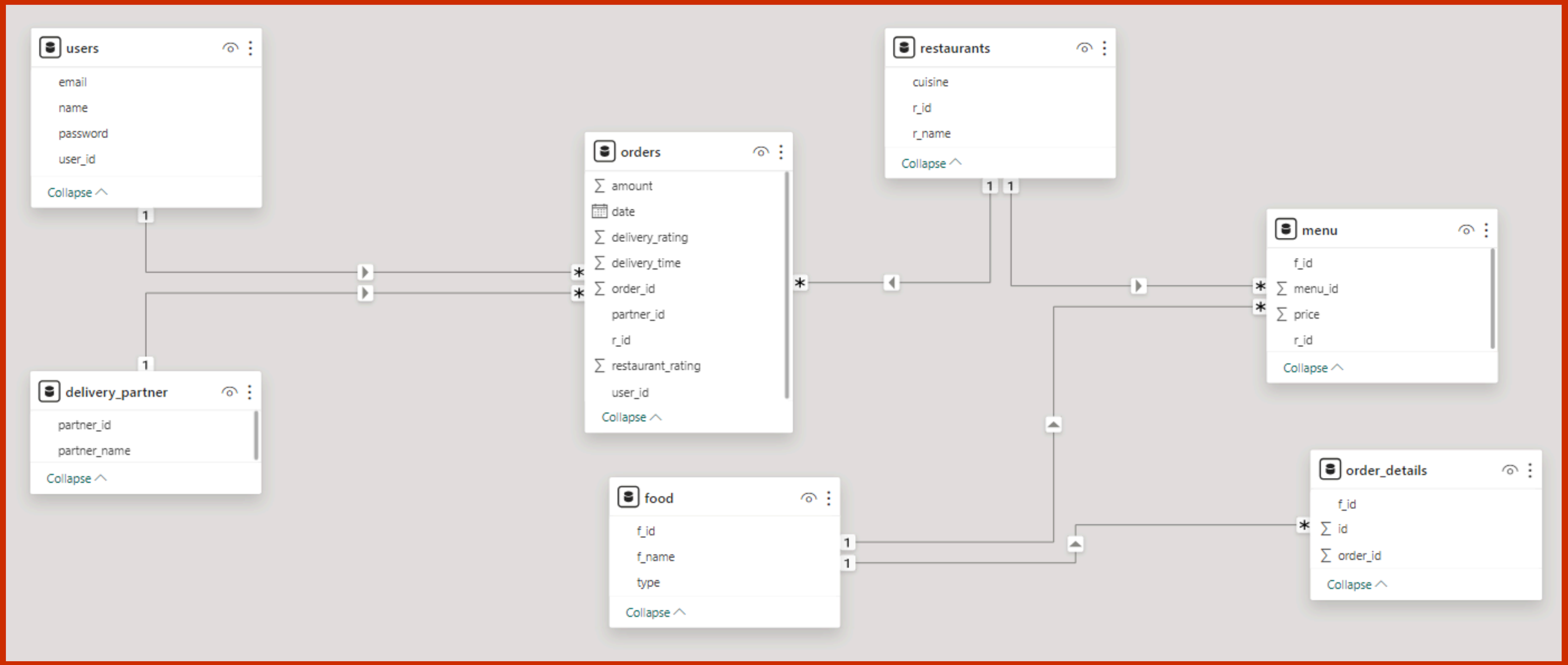


TABLE DESCRIPTION

1. DELIVERY_PARTNER

partner_id	partner_name
1	Suresh
2	Amit
3	Lokesh
4	Kartik
5	Gyandeep

2. FOOD

f_id	f_name	type
1	Non-veg Pizza	Non-veg
2	Veg Pizza	Veg
3	Choco Lava cake	Veg
4	Chicken Wings	Non-veg
5	Chicken Popcorn	Non-veg

3. ORDER_DETAILS

id	order_id	f_id
1	1001	1
2	1001	3
3	1002	4
4	1002	3
5	1003	6

4. MENU

menu_id	r_id	f_id	price
1	1	1	450
2	1	2	400
3	1	3	100
4	2	3	115
5	2	4	230

5. ORDER

order_id	user_id	r_id	amount	date	partner_id	delivery_time	delivery_rating	restaurant_rating
1001	1	1	550	2022-05-10	1	25	5	3
1002	1	2	415	2022-05-26	1	19	5	2
1003	1	3	240	2022-06-15	5	29	4	
1004	1	3	240	2022-06-29	4	42	3	5
1005	1	3	220	2022-07-10	1	58	1	4

6. RESTAUTENTS

r_id	r_name	cuisine
1	dominos	Itali
2	kfc	American
3	box8	North Indian
4	Dosa Plaza	South Indian
5	China town	Chinese

7. USER

user_id	name	email	password
1	Nitish	nitish@gmail.com	p252h
2	Khushboo	khushboo@gmail.com	hxn9b
3	Varitika	vartika@gmail.com	9hu7j
4	Ankit	ankita@gmail.com	lkko3
5	Neha	neha@gmail.com	3i7qm

Q1. Find customers who have never ordered

```
select name from user
where user_id not in (select user_id from orders);
```

name
Anupama
Rishabh

Q2. Find the Average Price/dish

```
select m.f_id,f.f_name ,avg(m.price) as avg_price
from menu as m
join food as f
on m.f_id=f.f_id
group by m.f_id,f.f_name;
```

f_id	f_name	avg_price
1	Non-veg Pizza	450.0000
2	Veg Pizza	400.0000
3	Choco Lava cake	98.3333
4	Chicken Wings	230.0000
5	Chicken Popcorn	300.0000
6	Rice Meal	213.3333
7	Roti meal	140.0000

Q3. Find the top restaurant in terms of the number of orders for a given month

```sql
select r_id,month_name, r_name,order_count
from (
      select r.r_id,
      monthname(o.date) as month_name,
      r.r_name,
      count(*) as order_count,
      row_number() over(partition by monthname(o.date) order by count(*) desc) as num_row
      from orders as o
      join restaurants as r
      on r.r_id=o.r_id
      where monthname(o.date) in ("June","July","May")
      group by month_name ,o.r_id
) as rank_order
where num_row = 1;
```

r_id	month_name	r_name	order_count
2	July	kfc	3
2	June	kfc	3
4	May	Dosa Plaza	3

Q4. restaurants with monthly sales greater than x (x is any integer number)

```sql
select r.r_name,monthname(date) as month_name, sum(amount) as amount from restaurants r join orders as o
on r.r_id=o.r_id
where monthname(o.date) like ("June") and amount >500
group by o.r_id
order by amount desc;
```

r_name	month_name	amount
dominos	June	950
kfc	June	530

Q5. Show all orders with order details for a particular customer in a particular date range

```
select o.order_id,u.name,f.f_name,r.r_name,o.date from user as u join orders as o
on u.user_id=o.user_id
join order_details as od
on o.order_id=od.order_id join food as f
on f.f_id= od.f_id
join restaurants as r
on r.r_id=o.r_id
where u.name = "Nitish" and o.date between "2022-06-10" and "2022-07-10";
```

order_id	name	f_name	r_name	date
1005	Nitish	Choco Lava cake	box8	2022-07-10
1004	Nitish	Choco Lava cake	box8	2022-06-29
1003	Nitish	Choco Lava cake	box8	2022-06-15
1004	Nitish	Rice Meal	box8	2022-06-29
1003	Nitish	Rice Meal	box8	2022-06-15
1005	Nitish	Roti meal	box8	2022-07-10

Q6. Find restaurants with max repeated customers

```
select o.user_id,name,r.r_id,r.r_name,f_name,o.date,count(*) as num_count from user as u join orders as o
on u.user_id=o.user_id
join restaurants as r
on r.r_id=o.r_id
join order_details as od
on o.order_id=od.order_id
join food as f
on f.f_id =od.f_id
where u.user_id = 5
group by r.r_id,o.user_id
order by num_count desc;
```

user_id	name	r_id	r_name	f_name	date	num_count
5	Neha	2	kfc	Choco Lava cake	2022-07-28	9
5	Neha	1	dominos	Non-veg Pizza	2022-07-08	4

Q7. Month over month revenue growth of swiggy

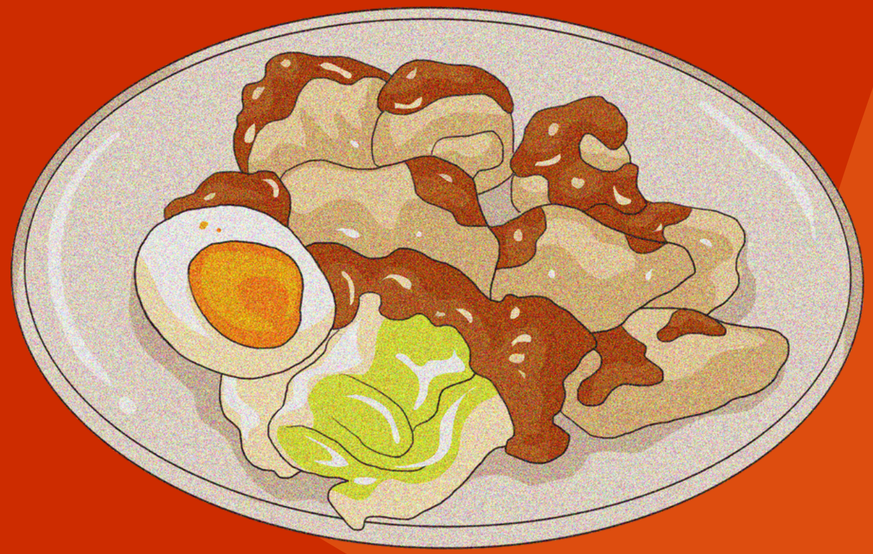
```sql
select month_name,((revenue-pre)/pre)*100 as "growth_%" from (
with sales as
(
    select monthname(date) as month_name, sum(amount)as revenue from orders o
    join restaurants as r
    on r.r_id=o.r_id
    group by month_name
)
select month_name,revenue,lag(revenue,1) over(order by revenue) as pre from sales
) t;
```

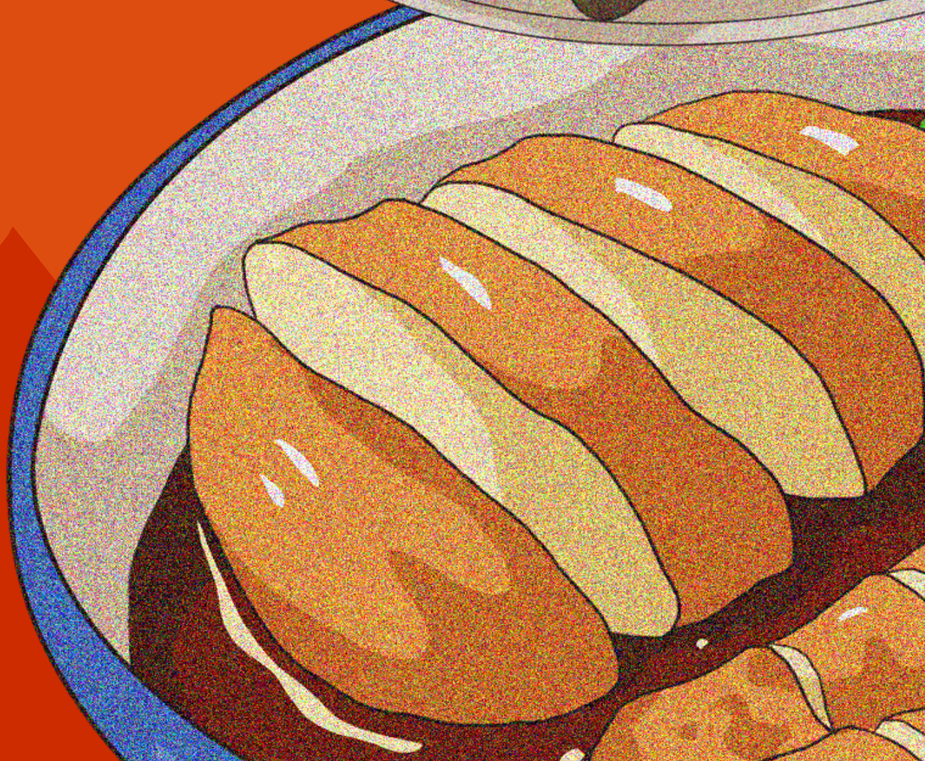
month_name	growth_%
May	NULL
June	32.7835
July	50.4658

Q8. Find the Customer's favorite food

```
select u.user_id,u.name,f_name,count(*) as count_order from user as u join orders as o
on u.user_id= o.user_id join order_details as od
on od.order_id = o.order_id join food as f
on od.f_id=f.f_id
group by u.name
order by u.user_id
```

user_id	name	f_name	count_order
1	Nitish	Non-veg Pizza	10
2	Khushboo	Non-veg Pizza	12
3	Varitika	Non-veg Pizza	5
4	Ankit	Masala Dosa	10
5	Neha	Non-veg Pizza	13





Thank You