



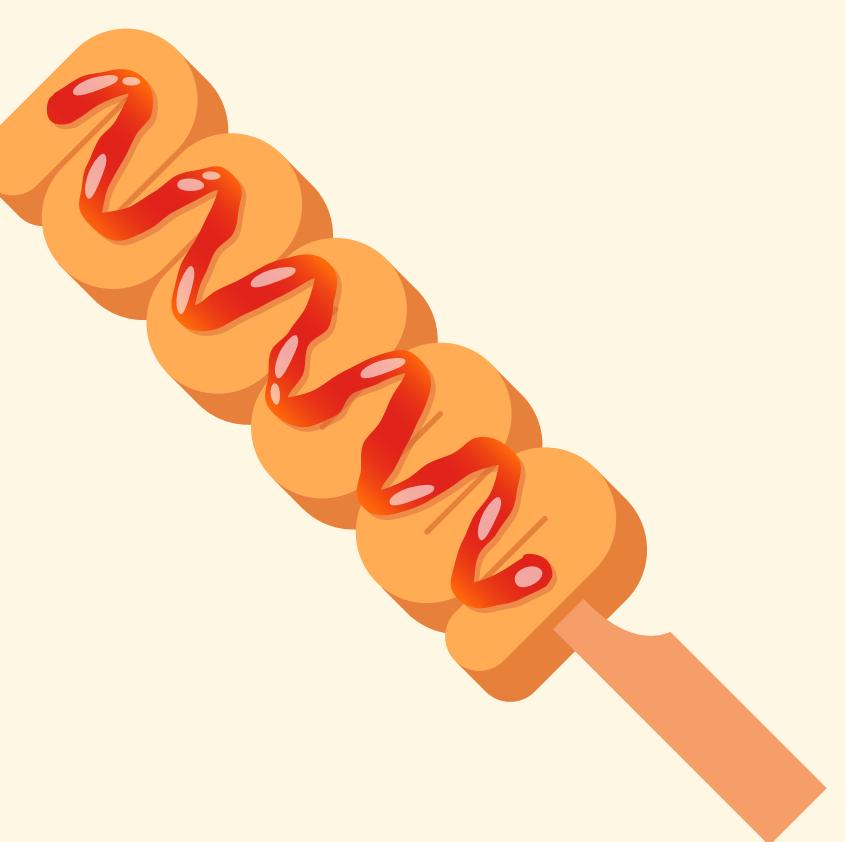
SALES ANALYSIS

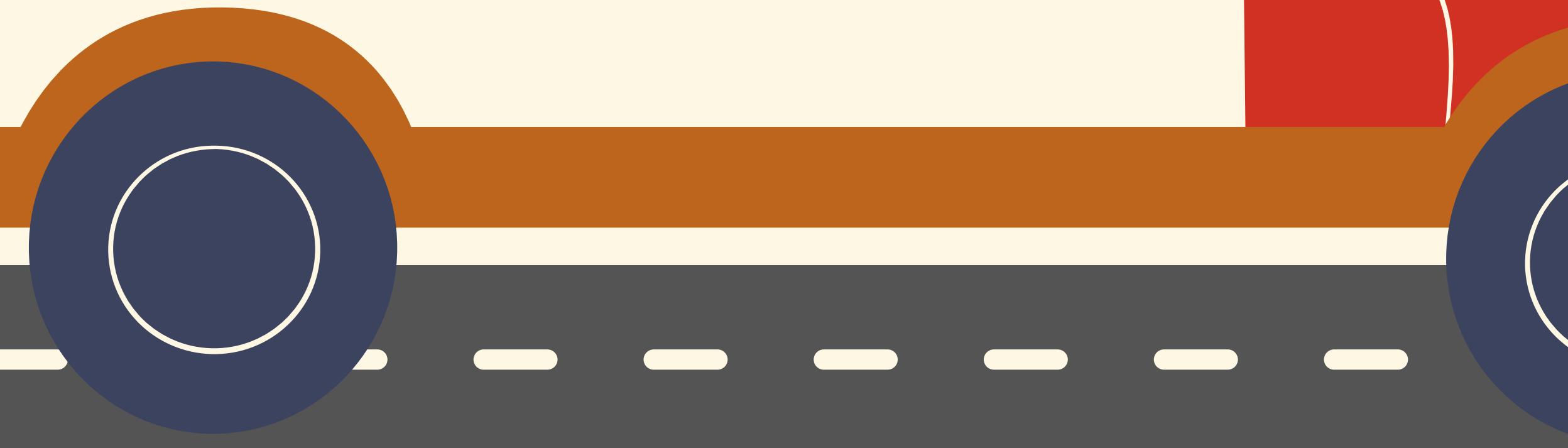
Using SQL





Topic



- 1 **Introduction swiggy**
 - 2 **Introduction Join's**
 - 3 **SQL Analysis Problem statement**
 - 4 **SQL Queries Analysis**
- 

Introduction

Swiggy is India's leading food delivery platform, transforming the way people access their favorite foods. Launched in 2014, Swiggy has rapidly grown into a household name, connecting millions of customers to a vast network of restaurants and delivery partners. Known for its user-friendly app, extensive restaurant selection, and efficient delivery system, Swiggy has revolutionized convenience, allowing customers to order from a wide range of cuisines and have meals delivered right to their doorstep.



Introduction “JOIN”

In SQL, a JOIN is used to combine rows from two or more tables based on a related column between them. Joins are essential for querying relational databases where data is often distributed across multiple tables. Here's a rundown of the main types of SQL joins:

SUMMARY OF KEY POINTS

INNER JOIN : Returns only matching rows.

LEFT JOIN : Returns all left table rows, matching or not.

RIGHT JOIN : Returns all right table rows, matching or not.

FULL JOIN : Returns rows when there's matching or not.

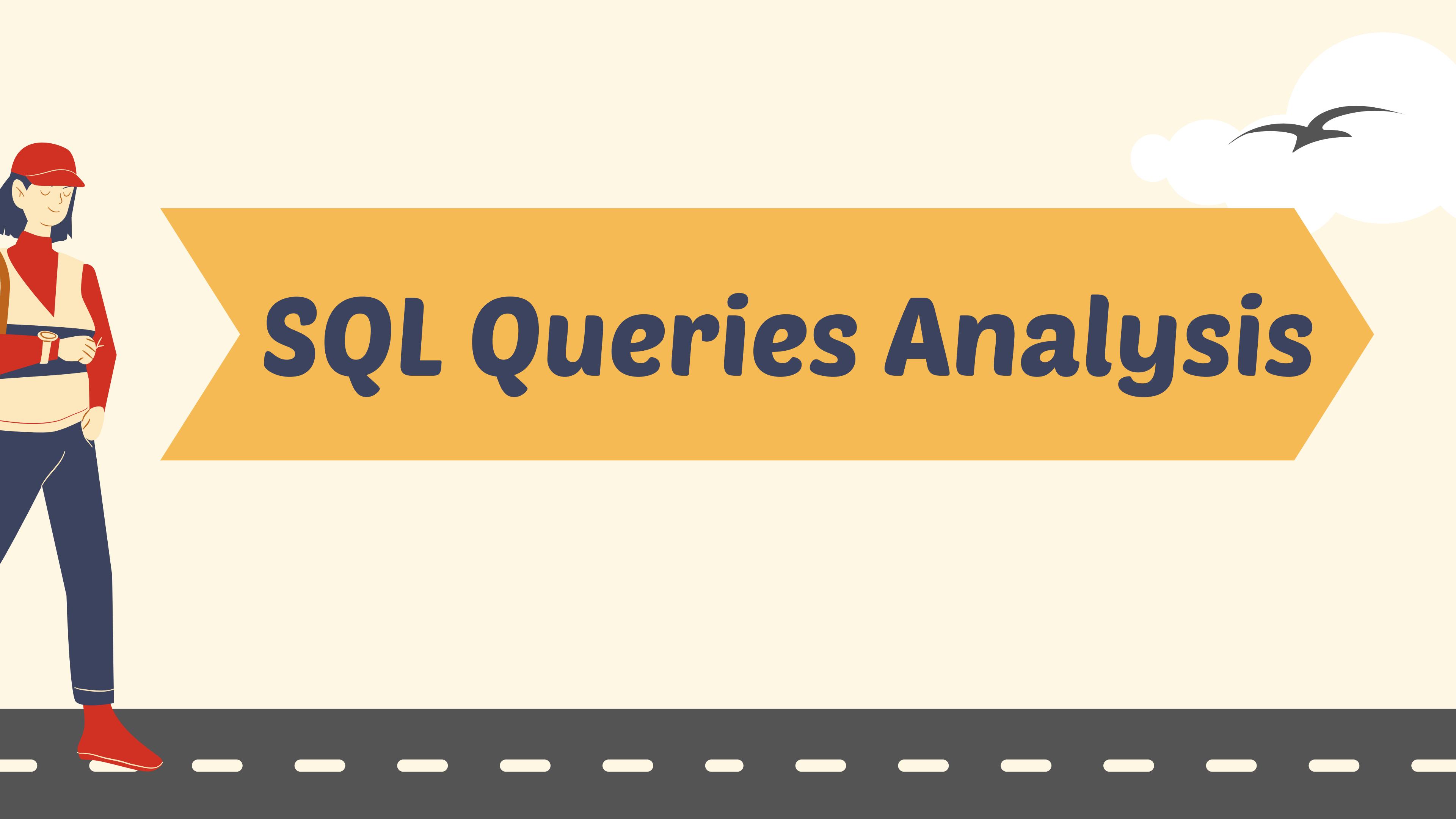
CROSS JOIN : Combines all rows from both tables.

SELF JOIN : Joins a table with itself.



SQL Analysis Problem statement

- Display all customers who live in 'Delhi'.
- Find the average rating of all restaurants in 'Mumbai'.
- List all customers who have placed at least one order.
- Display the total number of orders placed by each customer.
- Find the total revenue generated by each restaurant.
- Find the top 5 restaurants with the highest average rating.
- Display all customers who have never placed an order.
- Find the number of orders placed by each customer in 'Mumbai'.
- Display all orders placed in the last 30 days.
- List all delivery partners who have completed more than 1 delivery
- Find the customers who have placed orders on exactly three different days.'.
- Find the delivery partner who has worked with the most different customers.
- Identify customers who have the same city and have placed orders at the same restaurants, but on different dates.



SQL Queries Analysis

Display all customers who live in 'Delhi'.

```
SELECT  
    customer_id, name  
FROM  
    customers  
WHERE  
    city = 'Delhi';
```



customer_id	name
2	Rohini Verma
5	Manish Kumar
18	Sonali Mishra
NULL	NULL

Find the average rating of all restaurants in 'Mumbai'.



```
SELECT  
    AVG(rating) avg_rating  
FROM  
    restaurants  
WHERE  
    city = 'mumbai'
```

avg_rating
4.300000

List all customers who have placed at least one order.

```
SELECT DISTINCT  
    customers.customer_id, customers.name  
FROM  
    customers  
        INNER JOIN  
    orders ON customers.customer_id = orders.customer_id
```



customer_id	name
1	Amit Sharma
2	Rohini Verma
3	Rajesh Gupta
4	Sneha Mehta
5	Manish Kumar
6	Priya Singh
7	Vikas Reddy
8	Anjali Patel



Display the total number of orders placed by each customer.

```
SELECT  
    customers.customer_id,  
    customers.name,  
    COUNT(total_amount) total_orders  
FROM  
    customers  
        LEFT JOIN  
    orders ON customers.customer_id = orders.customer_id  
GROUP BY customers.customer_id , customers.name
```



customer_id	name	total_orders
1	Amit Sharma	2
2	Rohini Verma	3
3	Rajesh Gupta	3
4	Sneha Mehta	2
5	Manish Kumar	4
6	Priya Singh	3
7	Vikas Reddy	3
8	Anjali Patel	2



Find the total revenue generated by each restaurant.

```
SELECT
    restaurants.restaurant_id,
    restaurants.name,
    COALESCE(SUM(orders.total_amount), 0)
FROM
    restaurants
        LEFT JOIN
    orders ON restaurants.restaurant_id = orders.restaurant_id
GROUP BY restaurants.restaurant_id , restaurants.name
```



restaurant_id	name	coalesce(Sum(orders.total_amount),0)
1	Spice of India	1100.00
2	Tandoori Flames	1200.00
3	Biryani House	5300.00
4	Curry Pot	3200.00
5	Taste of Punjab	600.00
6	Royal Biryani	650.00
7	Coastal Delight	2100.00
8	Veggie Delight	1600.00
9	Gujarat Express	2550.00



Find the top 5 restaurants with the highest average rating.

```
SELECT  
    restaurant_id, name, AVG(rating) avg_rating  
FROM  
    restaurants  
GROUP BY restaurant_id , name  
ORDER BY avg_rating DESC  
LIMIT 5
```

restaurant_id	name	avg_rating
3	Biryani House	4.800000
22	Paradise Biryani	4.800000
30	Lucknowi Nawabi	4.700000
6	Royal Biryani	4.700000
12	Flavours of Bengal	4.600000

Display all customers who have never placed an order.

```
SELECT  
    customers.customer_id,  
    customers.name,  
    COUNT(orders.order_id)  
FROM  
    customers  
        LEFT JOIN  
    orders ON customers.customer_id = orders.customer_id  
GROUP BY customers.customer_id , customers.name  
HAVING COUNT(orders.order_id) = 0
```



customer_id	name
24	Sonal Kaur
25	Vivek Malhotra
26	Divya Iyer
27	Rakesh Yadav
28	Mona Sharma
29	Sudha Pillai
30	Gaurav Khanna

Find the number of orders placed by each customer in 'Mumbai'.

```
SELECT  
    customers.customer_id, customers.name, COUNT(order_id)  
FROM  
    customers  
    LEFT JOIN  
    orders ON customers.customer_id = orders.customer_id  
WHERE  
    customers.city = 'mumbai'  
GROUP BY customers.customer_id , customers.name;
```



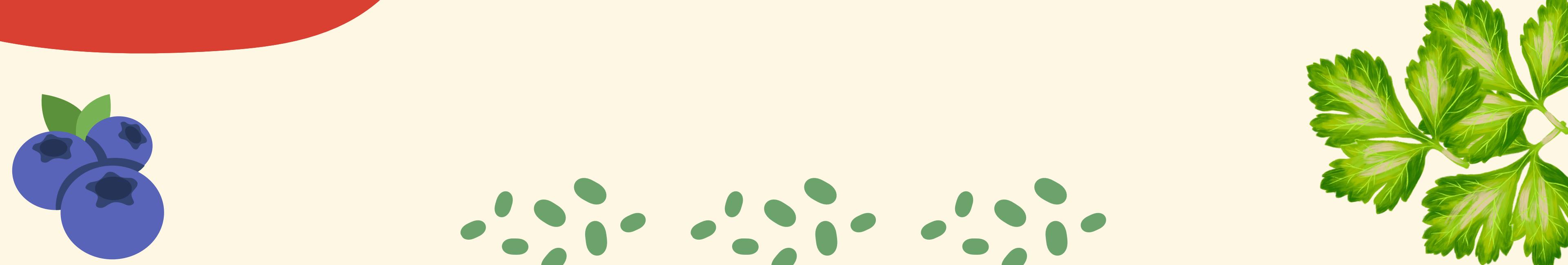
customer_id	name	count(order_id)
1	Amit Sharma	2
3	Rajesh Gupta	3
19	Arjun Desai	2
23	Ravi Singh	2



Display all orders placed in the last 30 days.



```
SELECT
  *
FROM
  orders
WHERE
  order_date >= CURDATE() - INTERVAL 30 DAY;
```



List all delivery partners who have completed more than 1 delivery



```
SELECT
    deliverypartners.partner_id,
    deliverypartners.name,
    COUNT(deliveryupdates.order_id)
FROM
    deliverypartners
        JOIN
    orderdelivery ON deliverypartners.partner_id = orderdelivery.partner_id
        JOIN
    deliveryupdates ON orderdelivery.order_delivery_id = deliveryupdates.delivery_id
WHERE
    deliveryupdates.status = 'Delivered'
GROUP BY deliverypartners.partner_id , deliverypartners.name
```

partner_id	name	COUNT(deliveryupdates.order_id)
4	Suresh Reddy	3
3	Priya Patel	1
5	Anita Desai	2
7	Sonia Agarwal	1
2	Ravi Kumar	2
12	Reena Rao	2

Find the customers who have placed orders on exactly three different days.'



```
SELECT  
    customers.customer_id,  
    customers.name,  
    COUNT(orders.order_date)  
FROM  
    customers  
    JOIN  
    orders ON customers.customer_id = orders.customer_id  
GROUP BY customer_id , customers.name  
HAVING COUNT(DISTINCT orders.order_date) = 3
```

customer_id	name	COUNT(orders.order_date)
2	Rohini Verma	3
6	Priya Singh	3
8	Anjali Patel	3
14	Nidhi Saxena	3
15	Ashok Kumar	3
18	Sonali Mishra	3

Find the delivery partner who has worked with the most different customers.

```
SELECT
    deliverypartners.Partner_id,
    deliverypartners.name,
    COUNT(orders.customer_id) customer_count
FROM
    deliverypartners
    JOIN
        orderdelivery ON deliverypartners.Partner_id = orderdelivery.Partner_id
        JOIN
            orders ON orderdelivery.order_id = orders.order_id
GROUP BY deliverypartners.Partner_id , deliverypartners.name
ORDER BY customer_count DESC
LIMIT 1;
```



Partner_id	name	customer_count
4	Suresh Reddy	6

Identify customers who have the same city and have placed orders at the same restaurants, but on different dates.

```
SELECT
    c1.name AS customer1,
    c2.name AS customer2,
    c1.city AS city1,
    c2.city AS city2,
    restaurants.name
FROM
    customers AS c1
        JOIN
    orders AS o1 ON c1.customer_id = o1.customer_id
        JOIN
    orders AS o2 ON o1.restaurant_id = o2.restaurant_id
        JOIN
    customers AS c2 ON c1.city = c2.city AND c1.name <> c2.name
        AND o2.customer_id = c2.customer_id
        JOIN
    restaurants ON o1.restaurant_id = restaurants.restaurant_id
WHERE
    o1.order_date <> o2.order_date
```



customer1	customer2	city1	city2	name
Manish Kumar	Sonali Mishra	Delhi	Delhi	Biryani House
Sonali Mishra	Manish Kumar	Delhi	Delhi	Biryani House
Sonali Mishra	Manish Kumar	Delhi	Delhi	Biryani House
Arjun Desai	Ravi Singh	Mumbai	Mumbai	Veggie Delight
Manish Kumar	Sonali Mishra	Delhi	Delhi	Biryani House
Ravi Singh	Arjun Desai	Mumbai	Mumbai	Veggie Delight

Thank you

