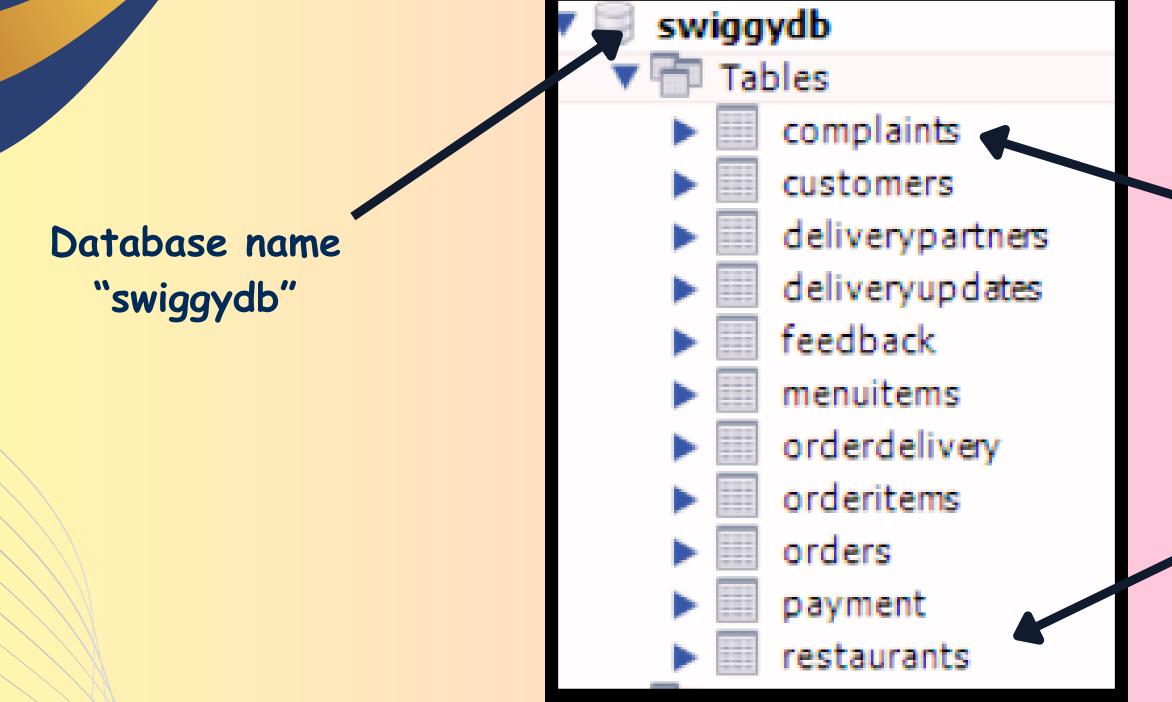


SQL DATA ANALYSIS

OVERVIEW

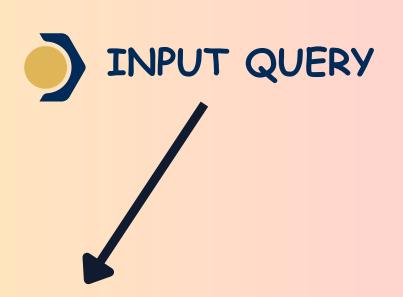
THIS SWIGGY SQL ANALYSIS PROVIDES A BRIEF OVERVIEW OF ORDER, CUSTOMER, RESTAURANT, AND DELIVERY DATA TO UNCOVER KEY BUSINESS INSIGHTS. IT HIGHLIGHTS TOP-PERFORMING RESTAURANTS, CUSTOMER ORDERING PATTERNS, DELIVERY EFFICIENCY, AND REVENUE TRENDS. THE FINDINGS SUPPORT DATA-DRIVEN DECISIONS TO IMPROVE CUSTOMER EXPERIENCE, OPTIMIZE OPERATIONS, AND BOOST GROWTH.

ABOUT DATASET

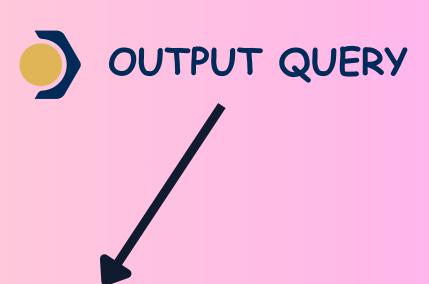


Database contains
11 "Tables"

Display all customers who live in 'Delhi'

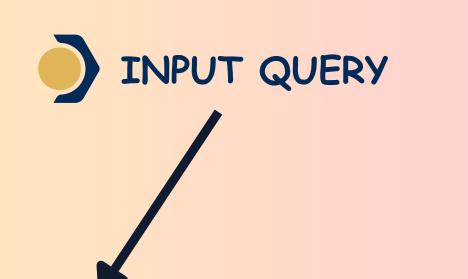


```
FROM
    customers
WHERE
    city = 'Delhi';
```

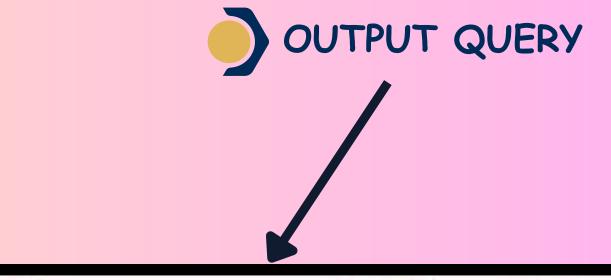


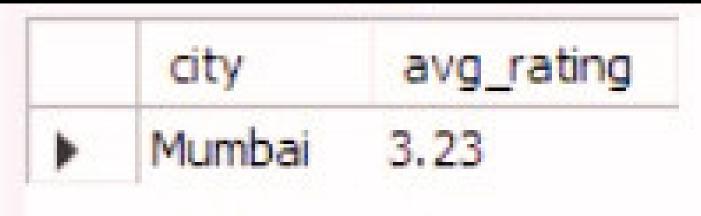
| | customer_id | name | city |
|---|-------------|---------------|-------|
| Þ | 2 | Rohini Verma | Delhi |
| | 5 | Manish Kumar | Delhi |
| | 18 | Sonali Mishra | Delhi |
| * | NULL | NULL | NULL |

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

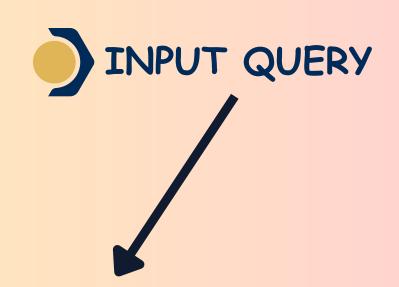


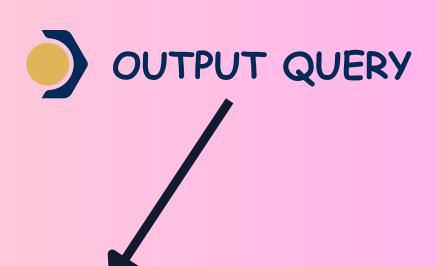
```
SELECT
    city,
    ROUND(AVG(COALESCE(rating, 0)), 2) AS avg_rating
FROM
    restaurants
WHERE
    city = 'Mumbai'
GROUP BY city;
```





List all customers who have placed at least one order.



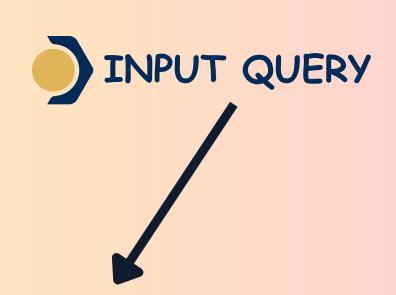


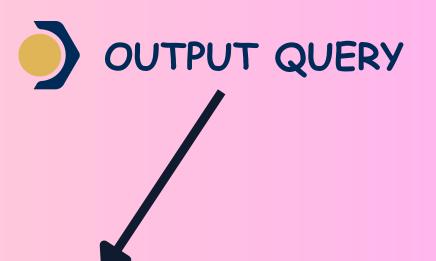
```
SELECT
    c.customer_id, c.name,
    COUNT(o.order_id) AS total_order
FROM
    customers AS c

JOIN
    orders AS o
ON c.customer_id = o.customer_id
GROUP BY c.customer_id , c.name
HAVING total_order > 0
ORDER BY total_order DESC;
```

| | customer_id | name | total_order |
|-------------|-------------|---------------|-------------|
| > | 5 | Manish Kumar | 4 |
| | 2 | Rohini Verma | 3 |
| | 3 | Rajesh Gupta | 3 |
| | 6 | Priya Singh | 3 |
| | 7 | Vikas Reddy | 3 |
| | 8 | Anjali Patel | 3 |
| | 14 | Nidhi Saxena | 3 |
| | 15 | Ashok Kumar | 3 |
| | 18 | Sonali Mishra | 3 |
| | 1 | Amit Sharma | 2 |
| | 4 | Sneha Mehta | 2 |

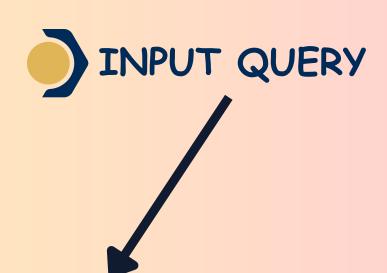
Display the total number of orders placed by each customer





| | name | total_orders |
|---|---------------|--------------|
| • | Manish Kumar | 4 |
| | Rohini Verma | 3 |
| | Rajesh Gupta | 3 |
| | Priya Singh | 3 |
| | Vikas Reddy | 3 |
| | Anjali Patel | 3 |
| | Nidhi Saxena | 3 |
| | Ashok Kumar | 3 |
| | Sonali Mishra | 3 |
| | Amit Sharma | 2 |
| | Sneha Mehta | 2 |
| | Kavita Desh | 2 |
| | Vivek Bhatt | 2 |

of Find the total revenue generated by each restaurant.



SELECT

r.name AS restaurant_name,

SUM(o.total_amount) AS total_revenue
FROM

restaurants AS r

LEFT JOIN

orders AS o

ON r.restaurant_id = o.restaurant_id

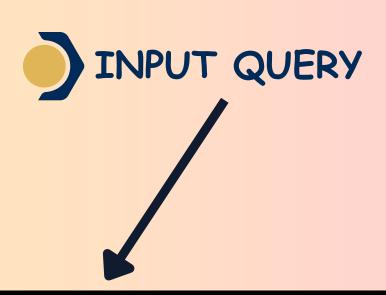
GROUP BY r.name;



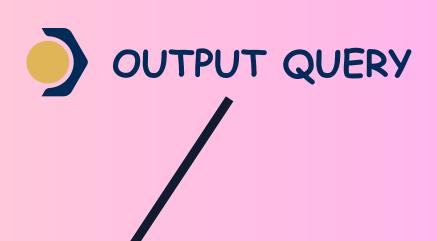
OUTPUT QUERY

| | restaurant_name | total_revenue |
|---|--------------------|---------------|
| • | Spice of India | 1100.00 |
| | Tandoori Flames | 1200.00 |
| | Biryani House | 5300.00 |
| | Curry Pot | 3200.00 |
| | Taste of Punjab | 600.00 |
| | Royal Biryani | 650.00 |
| | Coastal Delight | 2100.00 |
| | Veggie Delight | 1600.00 |
| | Gujarat Express | 2550.00 |
| | Andhra Spice | 4050.00 |
| | Punjabi Tadka | 900.00 |
| | Flavours of Bengal | 4050.00 |

Find the top 5 restaurants with the highest average rating.

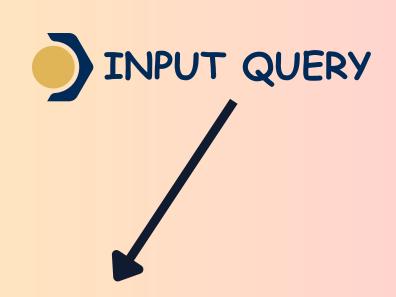


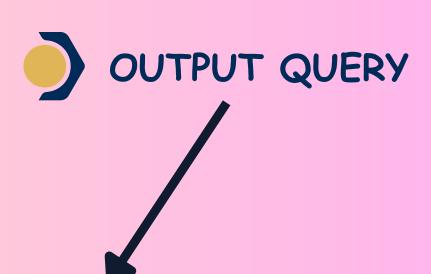
```
WITH avg_rat AS
(SELECT restaurant_id,name,
round(avg(coalesce(rating,0)),2)AS avg_rating
FROM restaurants
GROUP BY restaurant_id,name),
ranked AS
(SELECT *,
dense_rank() over(order by avg_rating desc) AS top_rank
FROM avg_rat)
SELECT *
FROM ranked
WHERE top_rank <=5;</pre>
```



| | restaurant_id | name | avg_rating | top_rank |
|-------------|---------------|--------------------|------------|----------|
| > | 3 | Biryani House | 4.80 | 1 |
| | 22 | Paradise Biryani | 4.80 | 1 |
| | 33 | Biryani House | 4.80 | 1 |
| | 52 | Paradise Biryani | 4.80 | 1 |
| | 30 | Lucknowi Nawabi | 4.70 | 2 |
| | 60 | Lucknowi Nawabi | 4.70 | 2 |
| | 6 | Royal Biryani | 4.70 | 2 |
| | 36 | Royal Biryani | 4.70 | 2 |
| | 12 | Flavours of Bengal | 4.60 | 3 |
| | 42 | Flavours of Bengal | 4.60 | 3 |
| | 19 | Awadhi Zaika | 4.60 | 3 |
| | 49 | Awadhi Zaika | 4.60 | 3 |
| | 1 | Spice of India | 4.50 | 4 |

OT Display all customers who have never placed an order.

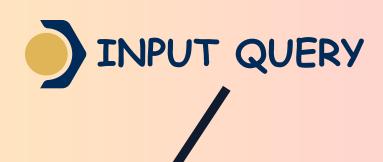


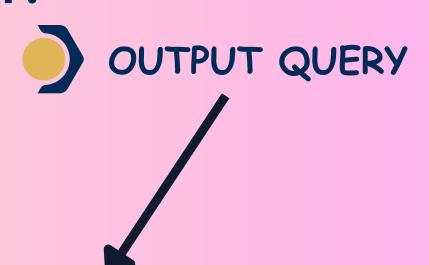


```
SELECT
    c.customer_id, c.name, o.order_id
FROM
    customers AS c
LEFT JOIN
    orders AS o
ON c.customer_id = o.customer_id
WHERE
    order_id IS NULL;
```

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

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



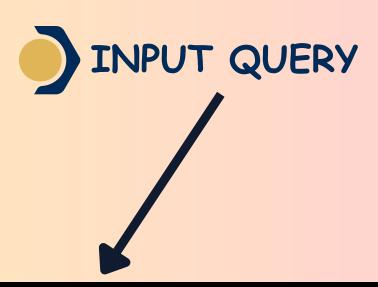


```
SELECT
    c.name,
    c.city, COUNT(o.order_id)
FROM
    customers A5 c
LEFT JOIN
    orders AS o
ON c.customer_id = o.customer_id
WHERE
    city = 'Mumbai'
GROUP BY c.name , c.city
```

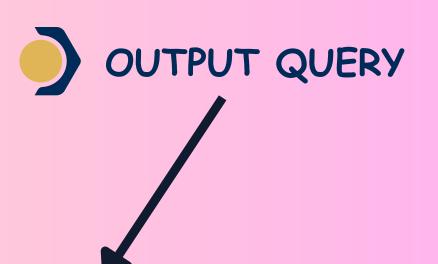
| | name | city | COUNT(o.order_id) |
|---|--------------|--------|-------------------|
| Þ | Amit Sharma | Mumbai | 2 |
| | Rajesh Gupta | Mumbai | 3 |
| | Arjun Desai | Mumbai | 2 |
| | Ravi Singh | Mumbai | 2 |

09

Display all orders placed in the last 15 days

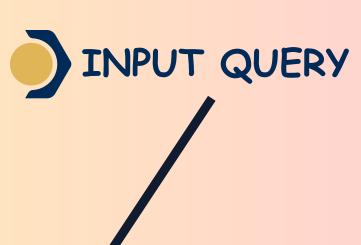


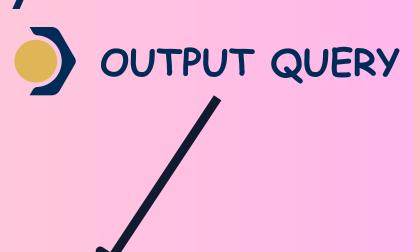
```
SELECT
   order_id, date(order_date), status
FROM
   orders
WHERE
   order_date BETWEEN (SELECT
           MAX(order_date)
          FROM
            orders) - INTERVAL 15 DAY AND
            (SELECT
            MAX(order_date)
        FROM
            orders);
```



| | order_id | date(order_date) | status |
|---|----------|------------------|------------|
| • | 1 | 2024-08-01 | Completed |
| | 2 | 2024-08-02 | Completed |
| | 3 | 2024-08-04 | Cancelled |
| | 4 | 2024-08-01 | Completed |
| | 5 | 2024-08-03 | Completed |
| | 6 | 2024-08-06 | Processing |
| | 7 | 2024-08-03 | Completed |
| | 8 | 2024-08-08 | Completed |
| | 9 | 2024-08-02 | Completed |
| | 10 | 2024-08-09 | Cancelled |
| | 11 | 2024-08-01 | Completed |
| | 12 | 2024-08-04 | Completed |
| | 13 | 2024-08-05 | Completed |
| | 14 | 2024-08-06 | Processing |
| | 15 | 2024-08-10 | Completed |
| | 16 | 2024-08-01 | Completed |
| | 17 | 2024-08-11 | Cancelled |

List all delivery partners who have completed more than 1 delivery.

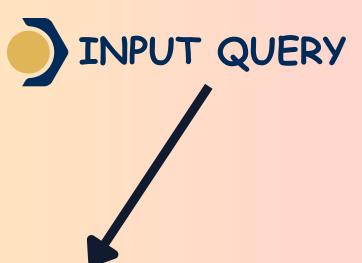


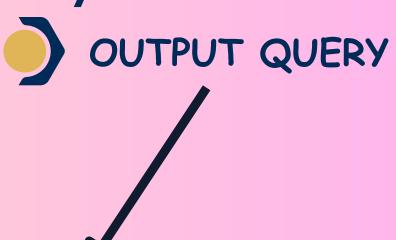


```
SELECT
    dp.partner_id,
    dp.name,
    o.status,
   COUNT(o.order_id) AS delievery_count
    deliverypartners AS dp
    orderdelivery AS od
ON dp.partner_id = od.partner_id
    orders AS o
ON od.order_id = o.order_id
WHERE
   o.status = 'completed'
GROUP BY dp.partner_id,dp.name , o.status
HAVING delievery_count > 1;
```

| | partner_id | name | status | delievery_count |
|---|------------|---------------|-----------|-----------------|
| • | 4 | Suresh Reddy | Completed | 4 |
| | 5 | Anita Desai | Completed | 4 |
| | 6 | Rajesh Gupta | Completed | 2 |
| | 3 | Priya Patel | Completed | 3 |
| | 1 | Amit Sharma | Completed | 2 |
| | 7 | Sonia Agarwal | Completed | 3 |
| | 2 | Ravi Kumar | Completed | 3 |
| | 8 | Vikram Singh | Completed | 2 |
| | 13 | Mohit Saini | Completed | 2 |

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



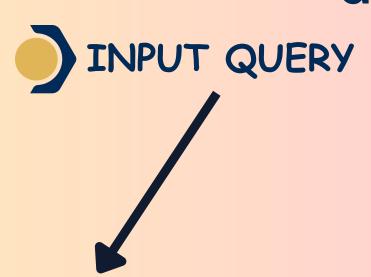


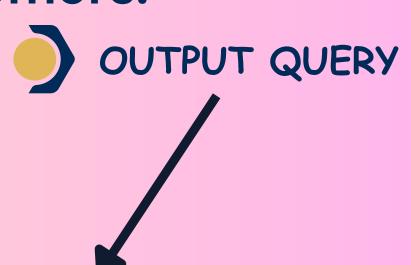
```
SELECT
     c.customer_id,
     c.name,
     COUNT(DISTINCT o.order_date) unique_days
FROM
     customers AS c

JOIN
     orders AS o
ON c.customer_id = o.customer_id
GROUP BY c.customer_id , c.name
HAVING COUNT(DISTINCT o.order_date) = 3;
```

| | customer_id | name | unique_days |
|---|-------------|---------------|-------------|
| Þ | 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.





```
dp.name,

COUNT(DISTINCT od.order_id) AS diff_customer

FROM

deliverypartners AS dp

JOIN

orderdelivery od

ON dp.partner_id = od.partner_id

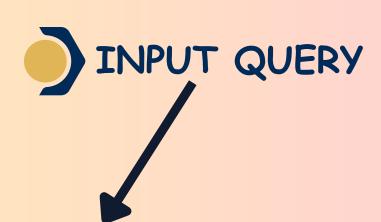
GROUP BY dp.name

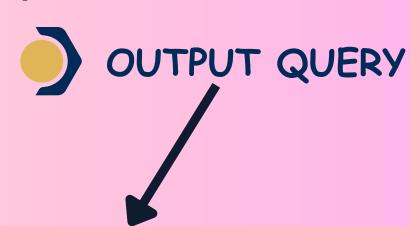
ORDER BY diff_customer DESC

LIMIT 1;
```

| | name | diff_customer |
|---|--------------|---------------|
| • | Suresh Reddy | 6 |
| | | |

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





```
SELECT DISTINCT
    c1.name AS cust1,
    c2.name AS cust2,
   c1.city,
    restaurants.restaurant id,
   restaurants.name,
   DATE(o1.order_date) AS order_cust1,
   DATE(o2.order_date) AS order_cust2
FROM
    customers A5 c1
JOIN
   orders AS o1 ON c1.customer_id = o1.customer_id
JOIN
   customers AS c2 ON c1.city = c2.city
JOIN
   orders AS o2 ON o2.customer_id = c2.customer_id
JOIN
   restaurants ON restaurants.restaurant_id = o2.restaurant_id
WHERE
   o1.restaurant_id = o2.restaurant_id
AND DATE(o1.order_date) <> DATE(o2.order_date)
AND c1.customer_id <> c2.customer_id;
```

| | cust1 | cust2 | city | restaurant_id | name | order_cust1 | order_cust2 |
|-------------|---------------|---------------|--------|---------------|----------------|-------------|-------------|
| > | Manish Kumar | Sonali Mishra | Delhi | 3 | Biryani House | 2024-08-04 | 2024-08-05 |
| | Sonali Mishra | Manish Kumar | Delhi | 3 | Biryani House | 2024-08-05 | 2024-08-04 |
| | Sonali Mishra | Manish Kumar | Delhi | 3 | Biryani House | 2024-08-05 | 2024-08-07 |
| | Arjun Desai | Ravi Singh | Mumbai | 8 | Veggie Delight | 2024-08-03 | 2024-08-09 |
| | Manish Kumar | Sonali Mishra | Delhi | 3 | Biryani House | 2024-08-07 | 2024-08-05 |
| | Ravi Singh | Arjun Desai | Mumbai | 8 | Veggie Delight | 2024-08-09 | 2024-08-03 |

