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Advanced MySQL

SWIGGY

CASE STUDY

Project - 5

Company Introduction :-

Swiggy is one of India's leading **on-demand delivery platforms**, best known for its **food delivery service**. Founded in **2014** in **Bengaluru**, Swiggy began as a food ordering and delivery company connecting customers with local restaurants via its mobile app and website.

Questions :-

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

Display all customers who live in 'Delhi’.

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

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

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

```sql
SELECT
    AVG(rating) AS avg_ratings
FROM
    restaurants
WHERE
    city = 'mumbai';
```

avg_ratings
4.300000

List all customers who have placed at least one order.

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

customer_id	name
30	Gaurav Khanna
29	Sudha Pillai
28	Mona Sharma
27	Rakesh Yadav
26	Divya Iyer
25	Vivek Malhotra
24	Sonal Kaur
23	Ravi Singh
22	Neha Kaushik
21	Rahul Chatterjee
20	Shweta Bansal

Display the total number of orders placed by each customer.

```sql
SELECT
    customers.customer_id,
    customers.name,
    COUNT(orders.order_id) AS total_orders
FROM
    customers
        LEFT JOIN
    orders ON customers.customer_id = orders.customer_id
GROUP BY customers.customer_id , customers.name
ORDER BY total_orders DESC;
```

customer_id	name	total_orders
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

Find the total revenue generated by each restaurant.

```sql
SELECT
    restaurants.restaurant_id,
    restaurants.name AS restaurants_name,
    SUM(orders.total_amount) AS total_revenue
FROM
    restaurants
        JOIN
    orders ON restaurants.restaurant_id = orders.restaurant_id
GROUP BY restaurants.restaurant_id , restaurants.name
ORDER BY total_revenue DESC;
```

restaurant_id	restaurants_name	total_revenue
3	Biryani House	5300.00
19	Awadhi Zaika	4150.00
12	Flavours of Bengal	4050.00
10	Andhra Spice	4050.00
4	Curry Pot	3200.00
13	South Treat	2950.00
9	Gujarat Express	2550.00
17	Chaat Junction	2150.00
7	Coastal Delight	2100.00
15	Rajasthani Rasoi	2100.00
18	Maharashtrian Ma...	2050.00

Find the top 5 restaurants with the highest average rating.

```sql
SELECT
    restaurant_id, name, AVG(rating) AS 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.

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

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'.

```sql
SELECT
    customers.customer_id,
    customers.name,
    COUNT(orders.order_id) AS total_orders
FROM
    customers
        JOIN
    orders ON customers.customer_id = orders.customer_id
WHERE
    customers.city = 'mumbai'
GROUP BY customers.customer_id , customers.name
ORDER BY total_orders DESC;
```

customer_id	name	total_orders
3	Rajesh Gupta	3
1	Amit Sharma	2
19	Arjun Desai	2
23	Ravi Singh	2

Display all orders placed in the last 30 days.

```sql
4 •    SELECT
5          *
6      FROM
7          orders
8      WHERE
9          order_date >= CURDATE() - INTERVAL 30 DAY;
```

	order_id	customer_id	restaurant_id	order_date	total_amount	status
•	NULL	NULL	NULL	NULL	NULL	NULL

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

```sql
SELECT DISTINCT
    deliverypartners.partner_id, deliverypartners.name
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';
```

partner_id	name
4	Suresh Reddy
3	Priya Patel
5	Anita Desai
7	Sonia Agarwal
2	Ravi Kumar
12	Reena Rao
18	Meera Gupta
10	Kiran Mehta
1	Amit Sharma
6	Rajesh Gupta

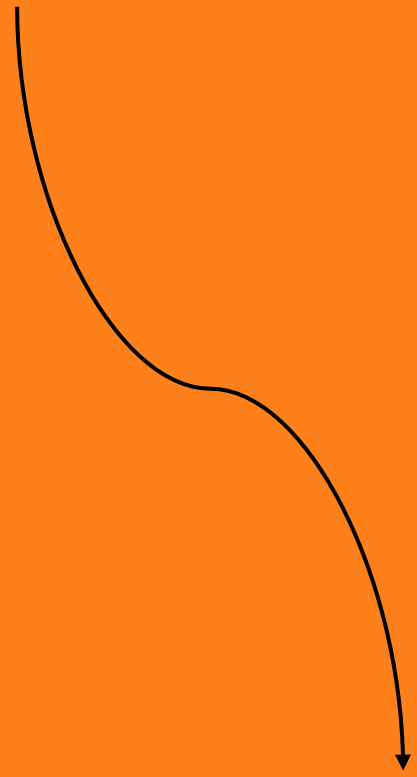
Find the customers who have placed orders on exactly three different days.

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

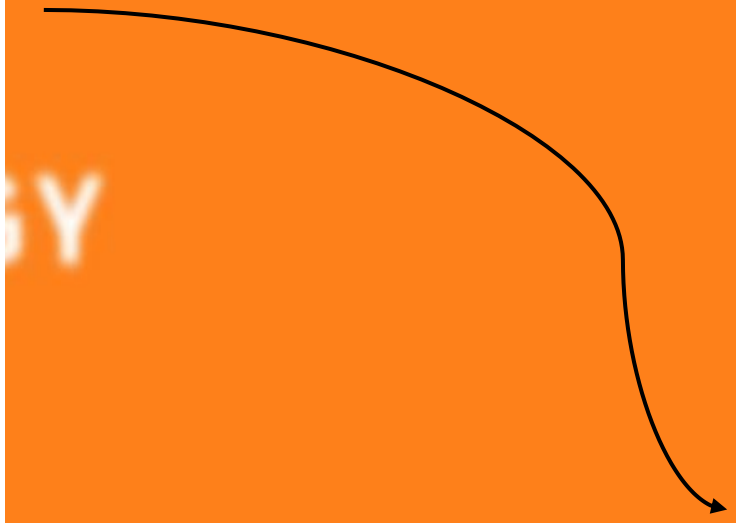
```sql
SELECT
    deliverypartners.partner_id,
    deliverypartners.name,
    COUNT(DISTINCT orders.customer_id) AS customer_count
FROM
    deliverypartners
        JOIN
    orderdelivery ON deliverypartners.partner_id = orderdelivery.partner_id
        JOIN
    orders ON orderdelivery.order_id = orders.order_id
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.

```sql
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 o2.restaurant_id = o1.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 Biryani House
Manish Kumar	Sonali Mishra	Delhi	Delhi	Biryani House
Ravi Singh	Arjun Desai	Mumbai	Mumbai	Veggie Delight


Thank you
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FOOD DELIVERY APP