Swiggy Case Study

IIT Kanpur Skills: SQL, ER diagram

Problem 1

Find customers who have never ordered.

Solution:

SELECT name FROM usersWHERE user_id NOT IN (SELECT user_id FROM orders)

Problem 2

Average Price/dish.

Solution:

```
- SELECT f.f_name, AVG(price) AS 'Avg Price'
FROM menu m
JOIN food f
ON m.f_id = f.f_id
GROUP BY m.f_id
```

Problem 3

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

Solution:

```
- SELECT r.r_name, COUNT(*) AS 'month'
FROM orders o
JOIN restaurants r
ON o.r_id = r.r_id
WHERE MONTHNAME(date) LIKE 'June'
GROUP BY o.r_id
ORDER BY COUNT(*) DESC LIMIT 1
```

Problem 4

Restaurants with monthly sales greater than x amount.

Solution:

```
SELECT r.r_name, SUM(amount) AS 'revenue'
FROM order o
JOIN restaurants r
ON o.r_id = r.r_id
WHERE MONTHNAME(date) LIKE 'JUNE'
GROUP BY o.r_id
HAVING revenue > 500
```

Problem 5

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

Solution:

```
SELECT o.order_id, r.r_name, f.f_name
FROM order o
JOIN restaurants r
ON r.r_id = o.r_id
JOIN order_details od
ON o.order_id = od.order_id
JOIN food f
ON f.f_id = od.f_id
WHERE user_id = ( SELECT user_id FROM users WHERE name LIKE 'Ankit' )
AND ( date > '2022-06-10' AND date < '2022-07-10')</pre>
```

Problem 6

Find restaurants with max repeated customers.

Solution:

Problem 7

Month over month revenue growth of swiggy.

Solution:

Note: WITH block and LAG function is used

Problem 8

Customer - favorite food.

Solution:

```
WITH temp AS
     SELECT o.user_id, od.f_id, COUNT(*) AS 'frequency'
     FROM order o
     JOIN order_details od
     ON o.order_id = od.order_id
     GROUP BY o.user_id, od.f_id
)
SELECT * FROM
temp t1
JOIN users u
ON u.user_id = t1.user_id
JOIN food f
ON f.f_id = t1.f_id
WHERE t1.frequency = (
   SELECT MAX(frequency)
   FROM temp t2
   WHERE t2.user_id = t1.user_id
)
```