Swiggy Case Study Using SQL

Questions which were to be Answered in this Project are as:

1. Find customers who have never ordered
2. Average Price/dish
3. Find the top restaurant in terms of the number of orders for a given month.
4. Restaurants with monthly sales greater than x
5. Show all orders with order details for a particular customer in a particular date range
6. Find restaurants with max repeated customers
7. Month over month revenue growth of swiggy
8. Customer - favorite food
9. Find the most loyal customers for all restaurant
10. Month over Month revenue growth of each restaurant

1. FIND CUSTOMERS WHO HAVE NEVER ORDERED

Query

```
1 •  select name from users u
2    where user_id not in (select user_id from orders)
```

Result

Result Grid

	name
▶	Anupama
	Rishabh

2. AVERAGE PRICE/DISH

Query

```
1 •  select f_name, avg(price) from menu m
2    join food f
3    on f.f_id = m.f_id
4    group by f_name
```

Result

Result Grid | Filter Rows:

f_name	avg(price)
Non-veg Pizza	450.0000
Veg Pizza	400.0000
Choco Lava cake	98.3333
Chicken Wings	230.0000
Chicken Popcorn	300.0000
Rice Meal	213.3333

3. FIND THE TOP RESTAURANT IN TERMS OF THE NUMBER OF ORDERS FOR A GIVEN MONTH.

Query

```sql
select r_name,count(order_id) as total_orders ,
monthname(date) as month from restaurants r
join orders o
on o.r_id = r.r_id
where monthname(date) = 'June'
group by r_name,month
order by total_orders desc
limit 1
```

Result

Result Grid | Filter Rows:

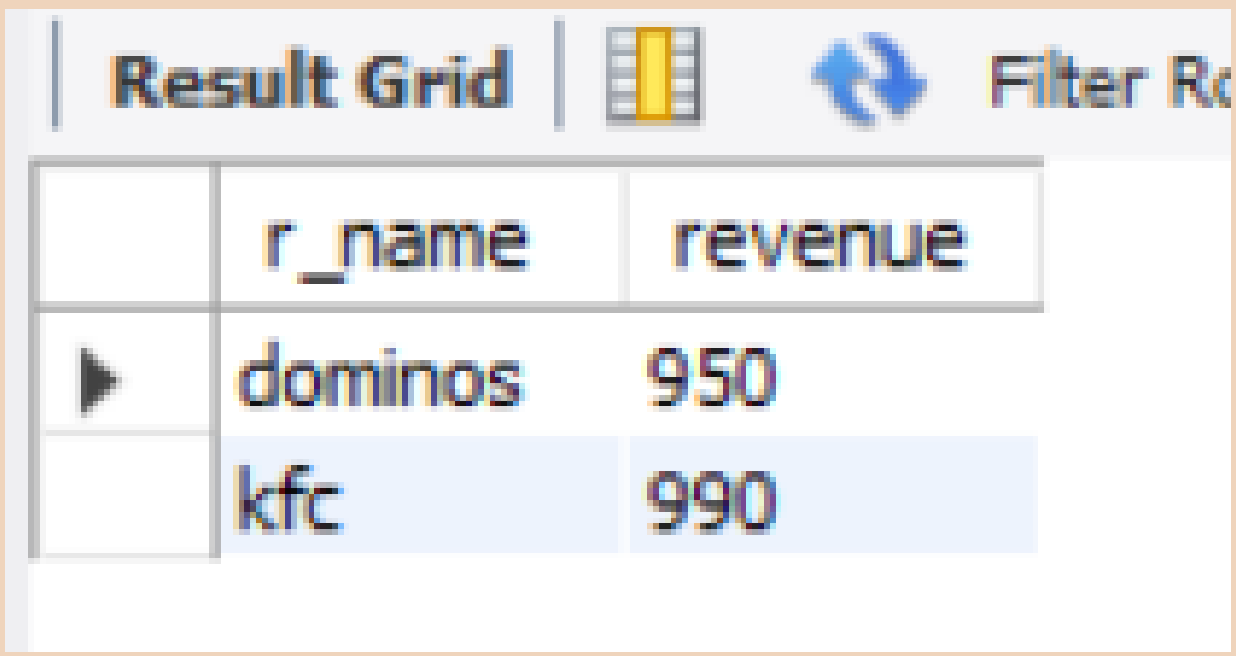
	r_name	total_orders	month
▶	kfc	3	June

4. RESTAURANTS WITH MONTHLY SALES GREATER THAN 500

Query

```sql
select r_name,sum(amount) as revenue from orders o
join restaurants r
on r.r_id = o.r_id
where monthname(date) like "june"
group by r_name
having revenue > 500
```

Result



Result Grid | Filter R

r_name	revenue
dominos	950
kfc	990

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

Query

```sql
select order_id,r_name,f_name from restaurants r
join orders o
on o.r_id = r.r_id
join menu m
on m.r_id = r.r_id
join food f
on f.f_id = m.f_id
where user_id = (select user_id from users where name like 'Nitish')
and date between "2022-05-10 00:00:00" and "2022-07-08 00:00:00"
```

Result

Result Grid | Filter Rows:

order_id	r_name	f_name
1001	dominos	Non-veg Pizza
1001	dominos	Veg Pizza
1004	box8	Choco Lava cake
1003	box8	Choco Lava cake
1002	kfc	Choco Lava cake
1001	dominos	Choco Lava cake
1002	kfc	Chicken Wings

Result 15

6. Find restaurants with max repeated customers

Query

```sql
select r_name,count(rep) loyal_customers from
(
select r_name,user_id,count(*) as rep from orders o
join restaurants r
on r.r_id = o.r_id
group by r_name,user_id
having rep >1
order by r_name,user_id,rep
) t
group by r_name
order by loyal_customers desc
limit 1
```

Result

Result Grid | Filter Rows:

	r_name	loyal_customers
▶	kfc	2

7. Month over month revenue growth of swiggy

Query

```sql
select month,((revenue-pre_month_rev)/revenue)*100 as growth from
(
with temp as
(
select monthname(date) as month,sum(amount) as revenue from orders
group by month
)
select month,revenue,lag(revenue,1) over(order by revenue) pre_month_rev from temp
) t2
```

Result

Result Grid | Filter R

month	growth
May	NULL
June	24.6894
July	33.5397

8. Customer - favorite food

Query

```sql
with temp as
(
select name,f_name,count(*) as freq from users u
join orders o
on o.user_id = u.user_id
join restaurants r
on r.r_id = o.r_id
join order_details od
on od.order_id = o.order_id
join food f
on f.f_id = od.f_id
group by name,f_name
order by name
)
select name,f_name from temp t1
where freq = (select max(freq) from temp t2 where t1.name = t2.name)

```

Result

Result Grid | Filter Rows:

name	f_name
Ankit	Schezwan Noodles
Ankit	Veg Manchurian
Khushboo	Choco Lava cake
Neha	Choco Lava cake
Nitish	Choco Lava cake

Result 44

9. Find the most loyal customers for all restaurant

Query

```sql
with temp as
(
select r_name,name,count(*) as freq from orders o
join restaurants r
on r.r_id = o.r_id
join users u
on u.user_id = o.user_id
group by r_name,name
order by r_name
)
select r_name,name, freq from temp t1
where freq = (select max(freq) from temp t2 where t2.r_name = t1.r_name)
```

Result

Result Grid | Filter Rows:

r_name	name	freq
box8	Nitish	3
China Town	Ankit	2
dominos	Neha	2
Dosa Plaza	Ankit	3
kfc	Neha	3

Result 51

10. Month over Month revenue growth of a restaurant

Query

```sql
select r_name,month,((revenue-prev_rev)/revenue)*100 as growth from
(
with temp as
(
select r_name,monthname(date) as month,sum(amount) as revenue from orders o
join restaurants r
on r.r_id = o.r_id
group by month,r_name
order by r_name
)
select r_name,month,revenue,lag(revenue,1) over(order by revenue) as prev_rev from temp
order by r_name
) t
```

Result

Result Grid | Filter Rows:

r_name	month	growth
box8	July	13.0435
box8	June	4.1667
China Town	June	25.0000
China Town	July	4.7619
dominos	June	17.8947

Result 69

Thank You