- *Swiggy Case Study*

a. Find customers who have never ordered

```
select * from
users where user_id not in (select user_id from orders);
```

b. Average Price/dish

```
select f_id,AVG(price) from menu group by f_id

select f.f_name,AVG(price) AS 'AVF PRICE'
from menu m
join food f
on m.f_id=f.f_id
group by m.f_id
```

c. Find top restautant in terms of number of orders for a given month

```
- Extract month first
SELECT *,monthname(date)FROM `orders`;

- Print only details of month june
SELECT *,monthname(date)FROM `orders`;

- Orders
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;

select r.r_name,COUNT(*) AS 'month'
from orders o
 join restaurants r
on o.r_id=r.r_id
where monthname(date) like 'july'
group by o.r_id
order by COUNT(*) desc limit 1;


select r.r_name,COUNT(*) AS 'month'
```

```
from orders o
 join restaurants r
on o.r_id=r.r_id
where monthname(date) like 'may'
group by o.r_id
order by COUNT(*) desc limit 1;
```

d. restaurants with monthly sales > x for a particular month

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

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

```
select o.order_id,r.r_name,f.f_name
from orders 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')
```

f. Customer -> favorite food

```
with temp as
 (
    select o.user_id,od.f_id,count(*) as 'frequency'
    from orders o
    join order_details od
    on o.order_id=od.order_id
    group by o.user_id,od.f_id
   )
SELECT u.name,f.f_name,t1.frequency 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
   )
```

g. Find the restaurant with max repeat customers

```
select r.r_name,count(*) as 'loyal_customers'
 from(
 select r_id,user_id,COUNT(*) as 'visits'
    from orders
    group by r_id,user_id
    having visits >1
    ) k
join restaurants r
on r.r_id=k.r_id
group by k.r_id
order by loyal_customers desc limit 1
```

h. Month over month revenue growth of a restaurant/swiggy

```
select month,(( revenue - prev )/prev)*100 from (
 with sales as
 (
 select monthname(date) as 'month' ,sum(amount) as 'revenue'
 from orders
 group by month
 order by month(date)
 )
select month,revenue,LAG(revenue,1) over (Order by revenue) as prev
from sales
 ) t
```