# Q1 - what is the total amount each customer spent on zomato?

SELECT s.userid,sum(p.price) as total\_expenditure FROM sale

as s left join product as p on s.product\_id=p.product\_id

group by s.userid order by s.userid;

# Q2 - how many days has each customer visited zomato?

select userid,count(distinct created\_date) from sale group by userid;

# Q3 - what is the first product purchased by each customer after signup?

select \* from sale as s left join users as u

on s.created\_date=u.signup\_date;

with cte1 as (

select \* ,rank() over(partition by userid order by created\_date ) as first\_purchase\_date from sale)

select cte1.userid,p.product\_name

from cte1 left join product as p on cte1.product\_id=p.product\_id

where cte1.first\_purchase\_date=1;

# Q4 - what is the most purchased item on the menu and how many times it is purchased by all customers?

with star as (select product\_id

from sale group by product\_id order by count(product\_id) desc limit 1)

select userid,count(product\_id) as no\_of\_times\_purchased from sale where product\_id in (select \* from star)

group by userid ;

# Q5 - which item is favourite for each customer?

with star as (

select userid,product\_id,count(product\_id) as m from sale group by userid,product\_id)

,star2 as (select \* ,rank() over(partition by userid order by m desc) as fav\_product

from star) select userid,product\_id from star2 where fav\_product=1;

# Q6 - which item was first purchased by a customer after becoming gold memeber?

with star as (select s.\*,g.gold\_signup\_date from sale as s inner join goldusers\_signup as g

on (s.userid=g.userid) and (s.created\_date>=g.gold\_signup\_date))

select userid , product\_id from (

select \* ,rank() over(partition by userid order by created\_date) as t from star )x

where t=1;

# Q7 - which item was purchased just b4 becoming a member?

with star as (select \* ,rank() over(partition by userid order by created\_date desc ) as t

from (select \* from (select s.\*,g.gold\_signup\_date from sale as s inner join goldusers\_signup as g on

s.userid=g.userid and s.created\_date<g.gold\_signup\_date)x) y)

select userid,product\_id from star where t=1;

# Q8 - what is the total orders and amount spent by each customer before they became a member?

with star as (select s.\*,p.price from sale as s join goldusers\_signup as g on (s.userid=g.userid) and

(s.created\_date<=g.gold\_signup\_date) join product as p on s.product\_id=p.product\_id)

select userid , count(distinct created\_date) as total\_orders,

sum(price) as total\_food\_expenditure from star group by userid;

# Q9 - calculate points collected by each customers and for which product most points have been given till now?

with x as(select id,product\_id ,sum(price) ,round(sum(price\*point)) as total from (select s.userid as id , p.\* from sale as s join product as p on

s.product\_id=p.product\_id)t

group by id, product\_id order by id ,total desc)

select id , product\_id ,total\_collected\_points from (

select \* ,rank() over(partition by id order by total desc) as r,

sum(total) over(partition by id) as total\_collected\_points from x)y where r=1

# Q10---in the first one year after a customer joins the gold progrma (including their join date) irrespective of what the customer has purchasd they earn 5 zomato points for every 10 rs spent who earned more 1 or 3 and what was theiir points earnings in their first year?

select s.\* ,P.PRICE\*0.5 from sale as s join goldusers\_signup as g on s.userid=g.userid

and s.created\_date>=g.gold\_signup\_date

and s.created\_date<= DATE\_ADD(g.gold\_signup\_date ,INTERVAL 1 YEAR)

join product as p on s.product\_id=p.product\_id;

# Q11-Rank all the transaction of the customers

SELECT \* , RANK() OVER(PARTITION BY USERID ORDER BY CREATED\_DATE ) AS RT FROM SALE ;