**Name:- Binoyananda Nandi Project:- Zomato**

DROP TABLE IF EXISTS goldusers\_signup;

CREATE TABLE goldusers\_signup (

userid INTEGER,

gold\_signup\_date DATE

);

INSERT INTO goldusers\_signup(userid, gold\_signup\_date)

VALUES

(1, '2017-09-22'),

(3, '2017-04-21');

DROP TABLE IF EXISTS users;

CREATE TABLE users (

userid INTEGER,

signup\_date DATE

);

INSERT INTO users(userid, signup\_date)

VALUES

(1, '2014-09-02'),

(2, '2015-01-15'),

(3, '2014-04-11');

DROP TABLE IF EXISTS sales;

CREATE TABLE sales (

userid INTEGER,

created\_date DATE,

product\_id INTEGER

);

INSERT INTO sales(userid, created\_date, product\_id)

VALUES

(1, '2017-04-19', 2),

(3, '2019-12-18', 1),

(2, '2020-07-20', 3),

(1, '2019-10-23', 2),

(1, '2018-03-19', 3),

(3, '2016-12-20', 2),

(1, '2016-11-09', 1),

(1, '2016-05-20', 3),

(2, '2017-09-24', 1),

(1, '2017-03-11', 2),

(1, '2016-03-11', 1),

(3, '2016-11-10', 1),

(3, '2017-12-07', 2),

(3, '2016-12-15', 2),

(2, '2017-11-08', 2),

(2, '2018-09-10', 3);

DROP TABLE IF EXISTS product;

CREATE TABLE product (

product\_id INTEGER,

product\_name TEXT,

price INTEGER

);

INSERT INTO product(product\_id, product\_name, price)

VALUES

(1, 'p1', 980),

(2, 'p2', 870),

(3, 'p3', 330);

-- Verify the contents of each table

SELECT \* FROM sales;

SELECT \* FROM product;

SELECT \* FROM goldusers\_signup;

1. Total amount spend by each customer?

select s.userid, sum(price) as totalcost

from sales s

Left join Product P

on s.product\_id=p.product\_id

group by s.userid

2. How many days each customer visited zomato?

select userid, Count(distinct created\_date) as no\_of\_days\_visited

from sales

group by userid

3.What was the first product purcahsed by each customer?

Select s.userid, Min(s.created\_date) as first\_date\_brought, p.product\_name

from sales s

Join product p

on s.product\_id=p.product\_id

group by s.userid, p.product\_name

select \*

from

(select \*, rank() Over( partition by userid order by created\_date asc) as Ranking

from sales) A

where A.ranking=1

4. what is the most purchsed item by the customers?

select p.product\_id, count(s.userid) as No\_of\_times\_purchased

from sales s

Join product p on s.product\_id=p.product\_id

group by p.product\_id

5. which item was most popular for each customers?

Select \*

from (select userid, product\_id,

rank() Over(partition by userid order by cnt desc) as ranking

from

(select s.userid,s.product\_id, count(\*) as cnt

from sales s

join product p

on s.product\_id=p.product\_id

group by s.userid,s.product\_id) A ) B

where ranking =1

6. which item was first purchased after membership?

Select \*,

from

( select A.\*,

rank() over( partition by userid order by created\_date asc) as ranking

from

(select \*

from sales s

join goldusers\_signup g

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

where ranking =1;

7. which item was first purchased before membership?

Select \*,

from

( select A.\*,

rank() over( partition by userid order by created\_date desc) as ranking

from

(select \*

from sales s

join goldusers\_signup g

on s.userid=g.userid and s.created\_date <= g.gold\_signup\_date) A) D)

where ranking =1;

8. what is the total order and amount spend by each member before they became member?

Select A.userid, sum(A.price) as total\_amount, count(A.userid) as No\_of\_item\_brought

from

(select s.userid, s.product\_id, p.price, g.gold\_signup\_date

from sales s

inner Join product p on s.product\_id=p.product\_id

inner Join goldusers\_signup g

on s.userid=g.userid

and s.created\_date <=g.gold\_signup\_date) A

group by A.userid

9. For buying each product generates point

p1-5rs- 2, p2-10rs - 5pt, p3- 5rs 1 pt

calculate points collected by each customer and for which products most points given?

( select e.\*, amt,points

from

(select A.\*,

Case when product\_1=1 then 2 when product\_1=2 then 2.5 when product\_1=3 then 1 else 0 as Points

from

( select s.product\_id, p.product\_name,sum(p.price) as total\_price

from sales s

Join product p

On s.product\_id=p.product\_id

group by p.product\_id, p.product\_name

order by p.product\_id ) A) D);

10. In the first one year after a customer joins the gold memebership. What is the point earned.

Select A.\*,p.price, p.price\*0.5 as zomato\_points

from

(select s.userid, s.product\_id, s.created\_date, g.gold\_signup\_date

from sales s

join goldusers\_signup 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)) A

Join product p on A.product\_id=p.product\_id

11. rank all the transcations of customers?

select \*, rank() over(partition by s.userid order by s.created\_date desc) as Ranking

from sales s

Join product p on s.product\_id=p.product\_id