PROBLEM STATEMENT SOLUTIONS

Q1. What is the total sales revenue generated by each product?

Solution:- select productid, sum(price) as total\_revenue from product

group by productid;

Q2. Which 3 product has the highest sales revenue?

Solution:- select Productid, ProductName, sum(price) as Totalrevenue

from product

group by Productid, ProductName

order by Totalrevenue desc

limit 3;

Q3.Total Users Signed Up and Taken Gold Membership?

Solution:-select count(Userid) AS TotalGoldUsers

from Golduser;

Q4. Revenue from Gold Users?

Solution:-select g.userid, sum(price) as GoldUserRevenue

from product p join sales s on p.productid= p.productid

join golduser g on s.userid= G.userid

where g.userid in (select g.Userid from Golduser)

group by g.userid, price;

Q5.Total Revenue from Gold Users?(SAME AS QUESTION 4)

Solution:-select sum(price) as TotalGoldUserRevenue

from product p join sales s on p.productid= p.productid

join golduser g on s.userid= G.userid

where g.userid in (select g.Userid from Golduser)

group by price;

Q6. Which users has been a gold user for the How much of time?

Q7. What is the most popular product among gold users?

Solution:- select s.ProductID,productname, count(\*) as PurchaseCount

from Sales s join product p on s.productid=p.productid

where UserID in (select UserID from Golduser)

group by s.ProductID,productname

order by PurchaseCount desc

limit 1;

Q8. What is the total sales revenue generated in each year?

solution:- select s.productid, created\_date as year, SUM(price) AS TotalRevenue

from Sales s join product p on s.productid=p.productid

group by s.productid,created\_date,price

order by TotalRevenue;

Q9. How has the sales revenue changed over the years?

solution:- select extract(year from created\_date) as SaleYear,sum(price) as TotalRevenue

from Sales s join product p on s.productid=p.productid

group by SaleYear

order by SaleYear;

Q10. What is the average Gold-signup compare to just sign up for the

users?

Solution:- select (select count(UserID) from Golduser) \* 1.0 / (select count(UserID) from Userr) as AvgGoldSignUp;

Q11. How many gold members users have order how many numbers of time ?

Solution:- select g.userid, count(s.userid) as NumberOfOrders

from golduser g join sales s on g.userid= s.userid

where g.UserID in (select Userid from Golduser)

group by g.UserID

order by g.userid;

Q12. What is the total amount each customer spend on Online Food Delivery?

Solution:- select s.userid,names, sum(price) as TotalSpent

from product p join sales s on p.productid= s.productid

join username u on s.userid= u.userid

group by s.userid,Names

order by totalspent desc;

Q13. What is the frequency of customer visits to the online platform?

Solution:-select s.userid,names, count(distinct created\_date) as VisitFrequency

from Sales s join username u on s.userid= u.userid

group by s.userid,Names;

Q14. What was the first order purchase by each customer ?

Solution:-select s.userid, productname, min(distinct created\_date) as FirstOrderDate, s.Productid

from Sales s join product p on s.productid= p.productid

group by Userid, productname, s.Productid

order by FirstOrderDate;

Q15. What is the most purchase item on the menu and how many times was it purchased by all customers?

solution:- select s.Productid, productname, count(\*) as PurchaseCount

from Sales s join product p on s.productid=p.productid

group by s.Productid,productname

order by PurchaseCount desc;

Q16. Which item was most popular for each customer ?

solution:- select s.userid, names, productname,s.Productid, count(\*) as PurchaseCount

from product p join sales s on p.productid= s.productid

join username u on s.userid= u.userid

group by s.userid,u.names,productname,s.Productid;

Q17. Which item was purchase first by the customer after they become a member ?

Solution:-select S.Userid, s.Productid, productname, min(created\_date) as FirstPurchaseDate

from Sales s join Golduser g on S.Userid = G.Userid

join product p on s.productid= p.productid

where created\_date >= SignupDate

group by S.Userid, s.Productid,productname;

Q18.Which item was purchase before the customer become a member ?

Solution:- select s.Userid, s.Productid,productname, created\_date,signup\_date

from Sales s join Golduser g on S.Userid = G.Userid

join userr ur on s.userid= ur.userid

join product p on s.productid= p.productid

where created\_date > SignupDate;

Q19. What is the total orders and amount spent for each member

before they become a member ?

Solution:-select S.userid,productname, count(s.userid) as TotalOrders, sum(price) as AmountSpent

from Sales s join Golduser g on S.Userid = G.Userid

join userr ur on s.userid= ur.userid

join product p on s.productid= p.productid

where created\_date > SignupDate

group by S.Userid,productname;

Q20. Rank all the transactions for each member whenever they are a XYZ gold member for every non gold member Transaction marks as na?

Solution:- select Userid, created\_date,

rank() over (partition by Userid order by created\_date) as TransactionRank,

case when Userid in (select Userid from Golduser) then 'Gold' else 'NA' end as MemberStatus

from Sales;