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

**select s.product\_id,p.product\_name,count(price) as total\_order,sum (price) as total\_revanue from sales s inner join product p on s.product\_id=p.product\_id group by s.product\_id,p.product\_name order by total\_revanue**

**ANS : The Total Revenue Generated By Each Product Are Given Below**

**"Butter Chicken" 1700**

**"Shahi Panir" 1360**

**"Dal Makni" 1120**

**"Mutton Biryani" 450**

**"Fish Curry" 380**

**"chiken Tikka" 300**

**"Veg Pulao" 200**

**"Mango Lassi" 80**

**Q2. Which 3 product has the highest sales revenue?**

**select s.product\_id,product\_name,count(price) as total\_order,sum (price) as total\_revanue from sales s inner join product p on s.product\_id=p.product\_id group by s.product\_id,product\_name order by total\_revanue desc limit 3;**

**ANS : Butter Chiken,Shahi Panir,Dal Makni This 3 Product Has The Highest Sales Revanue**

**3 "Butter Chicken" 5 1700**

**2 "Shahi Panir" 8 1360**

**1 "Dal Makni" 7 1120**

**Q3. How many users have signed up for the service and has taken the gold membership?**

**select un.names,gs.user\_id from users u inner join gold\_user gs on u.user\_id =gs.user\_id inner join user\_name un on un.user\_id = gs.user\_id**

**ANS : There Are 10 People They Have Singed Up For The Service And Has Taken The Gold Membership And There Names Are Given Below**

**"Aniket " 1**

**"Rutik " 2**

**"Kartik" 3**

**"Chetan" 4**

**"Rushikesh" 10**

**"Ritesh" 9**

**"Anurag" 7**

**"Dipak" 8**

**"Varun " 5**

**Q4. What is the revenue generated from gold users?**

**with cte as**

**(select s.user\_id,s.created\_date,s.product\_id,gs.signup\_date,product\_name,price,**

**case when created\_date > gs.signup\_date then price**

**when created\_date < gs.signup\_date then 0**

**end as after\_gold\_member from sales s**

**inner join gold\_user gs on s.user\_id = gs.user\_id**

**inner join product p on p.product\_id = s.product\_id**

**order by user\_id asc)**

**select user\_id,sum(after\_gold\_member) as total\_spend\_after\_become\_member from cte**

**group by user\_id**

**order by user\_id asc;**

**ANS : The Revanue generated by Gold User are given below**

**User\_id Revenue generate**

**1 170**

**2 160**

**3 340**

**4 170**

**5 340**

**6 170**

**7 160**

**8 340**

**9 160**

**Q5. Total Revanue from Gold Users ?**

**select sum(price) as TotalGoldUserRevenue**

**from product p join sales s on p.product\_id= p.product\_id**

**join gold\_user g on s.user\_id= G.user\_id**

**where g.user\_id in (select g.User\_id from Gold\_user)**

**group by price;**

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

**select s.product\_id,product\_name,count(\*) as most\_popular\_product from sales s**

**inner join gold\_user gs on s.user\_id = gs.user\_id inner join product p on p.product\_id =s.product\_id where gs.user\_id is not null group by s.product\_id,product\_nam**

**ANS: There Are The 3 Most Popular Product Amon The Gold Users 1st Is Dal Makni,**

**2nd Is Shahi Panir, 3rd Is Butter Chiken According To Gold Users**

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

**ANS :**

**select year(created\_date) as years,sum(price) as total\_year\_revanue from sales s**

**inner join product p on s.product\_id = p.product\_id group by years order by years asc**

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

**ANS :**

**select year(created\_date) as years,sum(price) as sum\_price from**

**(sum(price)/(select sum(price) from sales s join product p on s.product\_id=p.product\_id))**

**\*100 as percentage\_of\_total\_sales**

**group by years**

**order by years asc;**

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

**ANS:**

**select (avg(u.user\_id)) as gold\_signup\_average from users u**

**inner join gold\_user gs on u.user\_id=gs.user\_id**

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

**ANS:**

**select g.user\_id, count(s.user\_id) as Number\_Of\_Orders**

**from gold\_user g join sales s on g.user\_id= s.user\_id**

**where g.User\_ID in (select User\_id from Gold\_user)**

**group by g.User\_ID**

**order by g.user\_id;**

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

**ANS :**

**select s.user\_id, un.names,sum(p.price) as total\_price\_spend from sales s**

**inner join product p on s.product\_id = p.product\_id**

**inner join user\_name un on un.user\_id = s.user\_id group by s.user\_id,un.names**

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

**ANS:**

**select s.user\_id,un.names,count(product\_id) as no\_time\_visited from sales s**

**inner join user\_name un on un.user\_id = s.user\_id group by s.user\_id,un.names**

**order by s.user\_id ;**

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

**ANS :**

**select user\_id,count(product\_id) as p\_count from sales where product\_id =**

**(select product\_id from sales group by product\_id order by count(product\_id) desc limit 1) group by user\_id**

**Q16. Which item was most popular for each customer ?**

**ANS :**

**select user\_id,product\_id,cnt as no\_of\_order from**

**(select\* from**

**(select\*,rank()over(partition by user\_id order by cnt desc) as rnk from**

**(select user\_id,product\_id,count(product\_id) as cnt from sales group by user\_id,product\_id))**

**where rnk = 1);**

**Q19. What is the total orders and amount spent for each member before they become a member ?**

**ANS :**

**with cte as**

**(select s.user\_id,u.names,s.created\_date,p.product\_name,p.price,**

**case when created\_date < signup\_date**

**then 1 else 0**

**end as bef**

**from sales s inner join gold\_user gu on s.user\_id=gu.user\_id**

**inner join product p on s.product\_id=p.product\_id**

**inner join user\_name u on s.user\_id = u.user\_id)**

**select user\_id,names,count(created\_date) as total\_orders,sum(price) as amount\_spend**

**from cte**

**where bef = 0**

**group by user\_id,names**

**order by user\_id;**

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

**ANS :**

**Select User\_id, created\_date,**

**rank() over (partition by User\_id order by created\_date) as TransactionRank,**

**case when User\_id in (select User\_id from Gold\_user) then 'Gold' else 'NA' end as MemberStatus**

**from Sales;**