

sql project



Food Delivery

Free Shipping on all orders



zomato

order now



This project utilizes a sample dataset from Zomato, a popular restaurant discovery and food delivery platform. To perform data analysis using SQL queries.

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

```
select a.userid,sum(b.price) as  
total_amount_spent from sales a inner join  
product b on a.product_id=b.product_id  
group by a.userid
```

Results		Messages
	userid	total_amount_spent
1	1	5230
2	2	2510
3	3	4570

2-How many days has each customer visited zomato?

```
select userid,count(distinct  
created_date)as number_of_days  
from sales  
group by userid
```

Results		Messages
	userid	number_of_days
1	1	7
2	2	4
3	3	5

3-What was the first product purchased by each customer?

```
select*from  
(select*, rank() over (partition by  
userid order by created_date)rnk  
from sales) as a  
where rnk =1
```

Results		Messages		
	userid	created_date	product_id	rnk
1	1	2016-03-11	1	1
2	2	2017-09-24	1	1
3	3	2016-11-10	1	1

4-What is the most purchased item on the menu and how many times was it purchased by all customers?

```
select *from sales
```

```
select
```

```
product_id,count(product_id)no_of_times  
from sales group by product_id order by  
count(product_id) desc
```

	product_id	no_of_times
1	2	7
2	1	5
3	3	4

5-which item was the most popular for each customer?

```
select*from  
(select*,rank()over(partition by userid order by  
count_of_products desc) rnk from  
(select userid,product_id,count(product_id)  
count_of_products from sales group by  
userid,product_id)a)b  
where rnk=1
```

	userid	product_id	count_of_products	rnk
1	1	2	3	1
2	2	3	2	1
3	3	2	3	1

6-which item was purchased first by the customer after they became a member?

```
select*from
```

```
(select c.*,rank()over(partition by userid order by  
created_date )rnk from
```

```
(select
```

```
a.userid,a.created_date,a.product_id,b.gold_signup_date  
from sales a
```

```
inner join goldusers_signup b on a.userid=b.userid and  
created_date>=gold_signup_date) c)d where rnk=1;
```

Results		Messages			
	userid	created_date	product_id	gold_signup_date	rnk
	1	2018-03-19	3	2017-09-22	1
	3	2017-12-07	2	2017-04-21	1

7-which item was purchased just before the customer became a member?

```
select*from
(select c.*,rank()over(partition by userid order by
created_date desc )rnk from
(select
a.userid,a.created_date,a.product_id,b.gold_signup_date
from sales a
inner join goldusers_signup b on a.userid=b.userid and
created_date<=gold_signup_date) c)d where rnk=1;
```

	userid	created_date	product_id	gold_signup_date	rnk
1	1	2017-04-19	2	2017-09-22	1
2	3	2016-12-20	2	2017-04-21	1

8-what is the total orders and amount spent for each member before they became a member?

```
select userid,count(created_date)
order_purchased,sum(price) total_amt_spent from
(select c.*,d.price from
(select
a.userid,a.created_date,a.product_id,b.gold_signup_date
from sales a
inner join goldusers_signup b on a.userid=b.userid and
created_date<=gold_signup_date) c inner join product d on
c.product_id=d.product_id)e
group by userid
```

	userid	order_purchased	total_amt_spent
1	1	5	4030
2	3	3	2720

9-If buying each product generates points for eg 5rs=2 points and each product has different purchasing points as for p1 5rs=1 point,for p2 2rs=1 point,forp3 5rs =1 point. calculate points collected by each customer and for which product most points have been given ?

```
select userid ,sum(total_points) as total_points_earned from
(select e.*,amt/points total_points from
(select d.*,case when product_id=1 then 5 when
product_id=2 then 2 when product_id=3 then 5 else 0 end as
points from
(select c.userid,c.product_id,sum(price)amt from
(select a.*,b.price from sales a inner join product b on a.
product_id=b.product_id)c
group by userid,product_id)d)e)f group by userid;
```

	userid	total_points_earned
1	1	1829
2	2	763
3	3	1697

10-Rank all the transactions of the customers.

```
select*,rank() over(partition by userid  
order by created_date)rnk from sales
```

	userid	created_date	product_id	rnk
1	1	2016-03-11	1	1
2	1	2016-05-20	3	2
3	1	2016-11-09	1	3
4	1	2017-03-11	2	4
5	1	2017-04-19	2	5
6	1	2018-03-19	3	6

11-Rank all the transactions for each member whenever they are a zomato gold member for every non gold member transaction mark as na.

```
select*from sales
```

```
select e.*,case when rnk=0 then 'na'else rnk end as rnk from  
(select c.*,cast(( case when gold_signup_date is null then 0  
else rank() over(partition by userid order by created_date  
desc) end )as varchar) rnk from
```

```
(select
```

```
a.userid,a.created_date,a.product_id,b.gold_signup_date from  
sales a
```

```
left join goldusers_signup b on a.userid=b.userid and  
created_date>=gold_signup_date) c)e
```

	userid	created_date	product_id	gold_signup_date	rnk	rnk
1	1	2019-10-23	2	2017-09-22	1	1
2	1	2018-03-19	3	2017-09-22	2	2
3	1	2017-04-19	2	NULL	0	na
4	1	2017-03-11	2	NULL	0	na
5	1	2016-11-09	1	NULL	0	na
6	1	2016-05-20	3	NULL	0	na
7	1	2016-03-11	1	NULL	0	na
8	2	2020-07-20	3	NULL	0	na