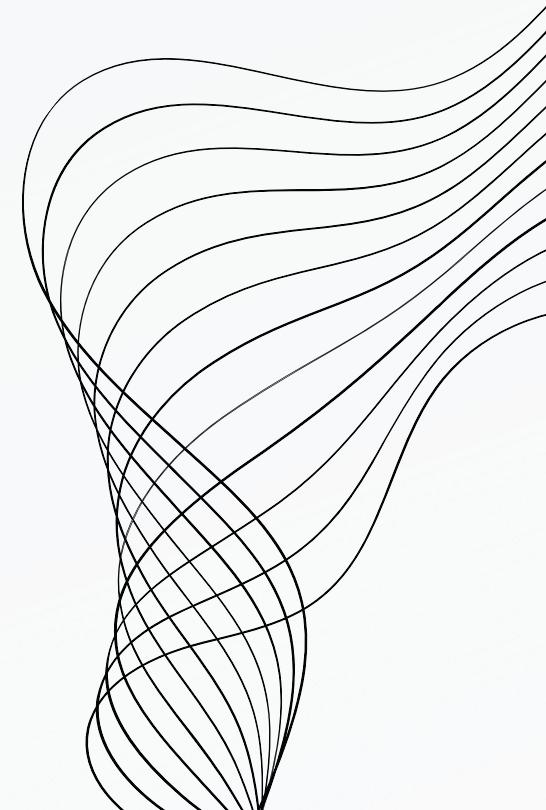


zomato ANALYSIS



QUESTIONS

- Q1) What is the total amount each customer spent on zomato?
- Q2) How many days has each customer visited zomato?
- Q3) What was the first product purchased by each customer?
- Q4) What is the most purchased item on the menu and how many times was it purchased by all customers?
- Q5) Which item is most popular for each customer?
- Q6) Which item was purchased first by the customer after they become member?
- Q7) Which item was purchased just before the customer became member?
- Q8) What is the total orders and amount spent for each member before they became member?
- Q9) If buying each product generates points for eg 5rs=2 zomato point and each product has different purchasing points for eg p1 5rs =1 zomato points, for p2 10rs=5zomato point and p3 5rs = 1 zomato point, calculate points collected by each customer and for which product most points have been given till now.
- Q10) In the first one year after a customer joins the gold program (including their join date) irrespective of what the customer has purchased they earn 5 zomato points for every 10 rs spent who earned more 1 or 3 and what was their points earning in their first year?
- Q11) rank all the transaction of the customers.
- Q12) rank all the transaction for each member whenever they are a zomato gold member for every non gold member transaction mark as na

zomato

What is the total amount each customer spent on zomato?

```
1 # 1 What is the total amount each customer spent on zomato?  
2 • SELECT userid, SUM(price) as total_amount_spent FROM sales  
3 JOIN product ON product.product_id = sales.product_id  
4 GROUP BY userid  
5 ORDER BY userid;
```

	userid	total_amount_spent
▶	1	5230
	2	2510
	3	4570

zomato

How many days has each customer visited zomato?

#2 How many days has each customer visited zomato?

```
SELECT userid, COUNT(DISTINCT created_date) AS total_no_vists FROM sales  
GROUP BY userid;
```

	userid	total_no_vists
▶	1	7
	2	4
	3	5

zoomato

What was the first product purchased by each customer?

What was the first product purchased by each customer?

```
• SELECT * FROM
  (SELECT *, RANK() OVER (PARTITION BY userid ORDER BY created_date) rnk
   FROM SALES) a
  WHERE rnk = 1;
```

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

zoomato

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

```
19      # 4 What is the most purchased item on the menu and how many times was it purchased by all customers?  
20 •  SELECT userid,COUNT(product_id) cnt FROM sales WHERE product_id =  
21     (SELECT product_id FROM sales  
22     GROUP BY product_id  
23     ORDER BY COUNT(product_id) desc  
24     LIMIT 1)  
25     GROUP BY userid;  
26
```

	userid	cnt
▶	1	3
	3	3
	2	1

zoomato

Which item is most popular for each customer?

```
27      # 5 Which item is most popular for each customer?  
28 •   SELECT * FROM  
29   (SELECT *, RANK() OVER(PARTITION BY userid ORDER BY cnt desc) rnk FROM  
30   (SELECT userid,product_id,count(product_id) cnt FROM sales  
31   GROUP BY userid,product_id) a)b  
32   WHERE rnk = 1;
```

	userid	product_id	cnt	rnk
▶	1	2	3	1
	2	3	2	1
	3	2	3	1

zomatohackathon

Which item was purchased first by the customer after they become member?

```
34      # 6 Which item was purchased first by the customer after they become member?  
35 •  SELECT * FROM  
36   (SELECT c.* ,RANK() OVER(PARTITION BY userid ORDER BY created_date) rnk FROM  
37   (SELECT a.userid,a.created_date,a.product_id,b.gold_signup_date FROM sales a  
38   INNER JOIN goldusers_signup b ON a.userid= b.userid AND created_date>=gold_signup_date) c  
39   ) d WHERE rnk=1;
```

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

zoomathon

Which item was purchased just before the customer became member?

```
41  # 7 Which item was purchased just before the customer become member?  
42 • SELECT * FROM  
43   (SELECT c.* ,RANK() OVER(PARTITION BY userid ORDER BY created_date desc) rnk FROM  
44   (SELECT a.userid,a.created_date,a.product_id,b.gold_signup_date FROM sales a  
45   INNER JOIN goldusers_signup b ON a.userid= b.userid AND created_date<=gold_signup_date) c  
46   ) d WHERE rnk=1;
```

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

zoomato

What is the total orders and amount spent for each member before they become member?

```
# 8 What is the total orders and amount spent for each member before they become member?  
● SELECT userid, COUNT(created_date) order_purchased,SUM(price) total_amount_spent FROM  
  (SELECT c.*,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_amount_spent
▶	3	3	2720
	1	5	4030

Zomato

If buying each product generates points for eg 5rs=2 zomato point and each product has different purchasing points for eg p1 5rs =1 zomato points, for p2 10rs=5zomato point and p3 5rs = 1 zomato point, calculate points collected by each customer and for which product most points have been given till now.

```
56  # 9 If buying each product generates points for eg 5rs=2 zomato point and each product has different purchasing points
57  # for eg p1 5rs =1 zomato points, for p2 10rs=5zomato point and p3 5rs = 1 zomato point,
58  # calculate points collected by each customer and for which product most points have been given till now.
59 •   SELECT userid,SUM(total_points)* 2.5 total_money_earned FROM
60   (SELECT e.* ,ROUND(amt/points,0) total_points FROM
61     (SELECT d.* ,
62       CASE WHEN product_id = 1 THEN 5
63         WHEN product_id = 2 THEN 2
64         WHEN product_id = 3 THEN 5
65         ELSE 0
66       END AS points FROM
67       (SELECT c.userid, c.product_id,SUM(price) amt FROM
68         (SELECT a.* ,b.price FROM sales a
69           INNER JOIN product b on a.product_id=b.product_id) c
70         GROUP BY userid,product_id) d)e)f
71   GROUP BY userid;
```

	userid	total_money_earned
▶	1	4572.5
	3	4242.5
	2	1907.5

zomato

If buying each product generates points for eg 5rs=2 zomato point and each product has different purchasing points for eg p1 5rs =1 zomato points, for p2 10rs=5zomato point and p3 5rs = 1 zomato point, calculate points collected by each customer and for which product most points have been given till now.

```
73 •   SELECT userid,SUM(total_points) total_points_earned FROM
74   (SELECT e.* ,ROUND(amt/points,0) total_points FROM
75   (SELECT d.* ,
76   CASE WHEN product_id = 1 THEN 5
77   WHEN product_id = 2 THEN 2
78   WHEN product_id = 3 THEN 5
79   ELSE 0
80   END AS points FROM
81   (SELECT c.userid, c.product_id,SUM(price) amt FROM
82   (SELECT a.* ,b.price FROM sales a
83   INNER JOIN product b on a.product_id=b.product_id) c
84   GROUP BY userid,product_id) d)e)f
85   GROUP BY userid;
86
```

	userid	total_points_earned
	1	1829
	3	1697
	2	763

Zomato

If buying each product generates points for eg 5rs=2 zomato point and each product has different purchasing points for eg p1 5rs =1 zomato points, for p2 10rs=5zomato point and p3 5rs = 1 zomato point, calculate points collected by each customer and for which product most points have been given till now.

```
87 •   SELECT * FROM
88   (SELECT *, RANK() OVER(ORDER BY total_points_earned DESC) rnk FROM
89     (SELECT product_id,SUM(total_points) total_points_earned FROM
90       (SELECT e.* ,ROUND(amt/points,0) total_points FROM
91         (SELECT d.* ,
92           CASE WHEN product_id = 1 THEN 5
93             WHEN product_id = 2 THEN 2
94             WHEN product_id = 3 THEN 5
95             ELSE 0
96           END AS points FROM
97             (SELECT c.userid, c.product_id,SUM(price) amt FROM
98               (SELECT a.* ,b.price FROM sales a
99                 INNER JOIN  product b on a.product_id=b.product_id) c
100                GROUP BY userid,product_id) d)e)f
101      GROUP BY product_id) f) g WHERE rnk = 1;
```

	product_id	total_points_earned	rnk
	2	3045	1

zomato

In the first one year after a customer joins the gold program (including their join date) irrespective of what the customer has purchased they earn 5 zomato points for every 10 rs spent who earned more than 1 or 3 and what was their points earning in their first year?

```
# 10 In the first one year after a customer joins the gold program (including their join date) irrespective of  
# what the customer has purchased they earn 5 zomato points for every 10 rs spent who earned more than 1 or 3  
# and what was their points earning in their first year?
```

```
SELECT c.* , d.price * 0.5 total_points_earned 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  
AND created_date <= DATE_ADD(gold_signup_date, INTERVAL 1 YEAR)) c  
INNER JOIN product d ON c.product_id = d.product_id;
```

	userid	created_date	product_id	gold_signup_date	total_points_earned
▶	3	2017-12-07	2	2017-04-21	435.0
	1	2018-03-19	3	2017-09-22	165.0

zoomato

Rank all the transaction of the customers.

```
# 11 rnk all the transaction of the customers  
  
SELECT *,RANK() OVER(PARTITION BY userid ORDER BY created_date) rnk  
FROM sales;
```

	userid	created_date	product_id	rnk
▶	1	2016-03-11	1	1
	1	2016-05-20	3	2
	1	2016-11-09	1	3
	1	2017-03-11	2	4
	1	2017-04-19	2	5
	1	2018-03-19	3	6
	1	2019-10-23	2	7
	2	2017-09-24	1	1
	2	2017-11-08	2	2
	2	2018-09-10	3	3
	2	2020-07-20	3	4
	3	2016-11-10	1	1
	3	2016-12-15	2	2
	3	2016-12-20	2	3
	3	2017-12-07	2	4
	3	2019-12-18	1	5

zomato

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

```
SELECT c.* ,CASE WHEN gold_signup_date IS NULL THEN 'na'  
else RANK() OVER(PARTITION BY userid ORDER BY created_date DESC) END AS 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;
```

	userid	created_date	product_id	gold_signup_date	rnk
▶	1	2019-10-23	2	2017-09-22	1
	1	2018-03-19	3	2017-09-22	2
	1	2017-04-19	2	NULL	na
	1	2017-03-11	2	NULL	na
	1	2016-11-09	1	NULL	na
	1	2016-05-20	3	NULL	na
	1	2016-03-11	1	NULL	na
	2	2020-07-20	3	NULL	na
	2	2018-09-10	3	NULL	na
	2	2017-11-08	2	NULL	na
	2	2017-09-24	1	NULL	na
	3	2019-12-18	1	2017-04-21	1
	3	2017-12-07	2	2017-04-21	2
	3	2016-12-20	2	NULL	na
	3	2016-12-15	2	NULL	na
	3	2016-11-10	1	NULL	na