zomato -

SQL PROJECT

SELECT * FROM goldusers_signup;

Output

userid Integer	â	gold_signup_date date
	1	2017-09-22
	3	2017-04-21

SELECT * FRON product;

Output

	product_id integer	product_name t ext	price integer
1	1	p1	980
2	2	p2	870
3	3	р3	330

SELECT * FROM users;

	userid integer	•	signup_date date	â
1	**	1	2014-09-02	
2	3	2	2015-01-15	
3		3	2014-04-11	

Select s.userid , sum(p.price) As Total_Amount
From sales As s
Join product As p
On s.product_id = p.product_id
Group by userid
Order by userid;

1. What is the total amount each customer spent on Zomato?

	integer &	total_amount bigint
1	1	5230
2	2	2510
3	3	4570

Select userid , Count(Distinct created_date) As Total_Visit From sales As s Group by userid

2. How many days has each customer visited on Zomato?

OUTPUT

Order by userid;

	userid integer	ô	total_visit bigint	É
1		1		3
2		2		1
3		3		ļ

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Select *
From (Select * , Rank() Over(Partition by userid Order by created_date) As Rank
From sales As s)
Where Rank = 1;
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SELECT DISTINCT ON (userid) *
FROM sales
ORDER BY userid, created_date;
 OUTPUT
                            product_id
                created_date
      userid
                                        rank
                                               8
                                        bigint
      integer
                date
                             integer
                2016-03-11
                2017-09-24
                2016-11-10
3
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3. What was the first product purchased by each customer?

4. What is the most purchased item in the menu and how many time was it purchased by all customers?
Select userid , count(product_id)

From sales
Where product_id = (Select product_id From sales Group by product_id Order by count(product_id) DESC

Limit 1)
Group by userid;

	userid integer	count bigint	â
1	1		3
2	2		1
3	3		3

5. Which item was the most popular for each customer?

(SELECT * , RANK() OVER(PARTITION BY userid ORDER BY cnt DESC) rnk FROM

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(SELECT userid , product_id , COUNT(product_id) AS ont FRON sales GROUP BY userid , product_id))
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SELECT * FROM

WHERE rnk = 1

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	userid integer	product_id integer	cnt bigint	rnk bigint
1	1	2	3	1
2	2	3	2	1
3	3	2	3	1

6. Which item was purchased first after they became gold member?

Select b.*

From (Select a.* , Rank() Over(Partition by userid order by created_date ASC)

From (Select s.userid As userid, s.created_date As created_date, s.product_id As product_id, g.gold_signup_date As gold_signup_date
From sales As s Join goldusers_signup As g On s.userid = g.userid Where s.created_date >= g.gold_signup_date) As a) As b Where rank = 1

	userid integer	â	date 6	product_id integer	ı	gold_signup_date date	rank bigint	â
1		1	2018-03-19	3		2017-09-22		1
2		3	2017-12-07	2	g	2017-04-21		1

Select b.*
From (Select a.*, Rank() Over(Partition by userid order by created_date DESC)

From (Select s.userid As userid, s.created_date As created_date, s.product_id As product_id, g.gold_signup_date As gold_signup_date
From sales As s Join goldusers_signup As g On s.userid = g.userid Where s.created_date <= g.gold_signup_date) As a) As b Where rank = 1

OUTPUT

	integer (â	date	integer 6	date	bigint 6
1	33	1	2017-04-19	2	2017-09-22	1
2		3	2016-12-20	2	2017-04-21	1

7. Which item was purchased Just before they became gold member?

Select s.userid , Count(s.created_date) As Total_Order , Sum(p.price) As Total_Amount
From sales As s
Join goldusers_signup As g

8. What is the total order and total amount spent by each customers just before they become gold member?

On s.userid = g.userid

Join product As p

On s.product_id = p.product_id

Where s.created_date <= g.gold_signup_date

Group by s.userid

OUTPUT

Order by s.userid Asc

	integer 6	total_order a	total_amount 6
1	1	5	4030
2	3	3	2720

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9. If buying each product generates points for example 5 Rs = 2 Zomato Points
and each product has different purchasing points For example For pl 5 Rs = 1 Zomato Points
, For p2 10 Rs = 5 Zomato Points and For p3 5 Rs = 1 Zomato Points.
Calculate points collected by each customers and for which product most points have been given till now?
-- Part 1 of the question asked points collected by each customers
SELECT a.userid , SUM (ROUND (amount/points, 9)) +2.5 AS Total_Money_Earned FROM
SELECT s.userid , s.product id , sum(p.price) as amount ,
CASE
WHEN s.product_id = 1 THEN 5
WHEN s.product_id = 2 THEN 2
                                                                        OUTPUT
WHEN s.product id = 3 THEN 5
ELSE 0
                                                                                       total_money_earned_o
                                                                              userid
END as points
                                                                              integer
                                                                                       numeric
FROM sales AS s
                                                                                                  4572.5
JOIN product AS p
                                                                         2
                                                                                                  1907.5
ON s.product_id = p.product_id
                                                                                                  4242.5
GROUP BY s.userid , s.product_id
ORDER BY s.userid , s.product_id) AS a
GROUP By a.userid
```

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-- Part 2 of the question asked for product most points have been given till now
SELECT a.product id , SUM(ROUND(amount/points,@)) AS Total Points Earned FROM
SELECT s.userid , s.product_id , sum(p.price) as amount ,
CASE
WHEN s.product id = 1 THEN 5
WHEN s.product_id = 2 THEN 2
WHEN s.product_id = 3 THEN 5
ELSE @
END as points
FROM sales AS s
JOIN product AS p
                                                     OUTPUT
ON s.product_id = p.product_id
                                                                    total_points_earned
                                                          product_id
GROUP BY s.userid , s.product_id
                                                          integer
                                                                     numeric
ORDER BY s.userid , s.product_id) AS a
GROUP BY a.product id
                                                                                3045
ORDER BY Total Points Earned DESC
LIMIT 1
```

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19. In a first one year after a customer joins the gold membership (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 earnings in their first year?
1 Zomato Points = Rs 2 or 0.5 Zomato Points = Rs 1
SELECT s.userid , s.product_id , s.created_date , g.gold_signup_date , p.price*0.5 AS Points_Earned
FROM sales AS s JOIN goldusers signup AS g ON s.userid = g.userid
AND s.created date >= g.gold signup date AND s.created date <= g.gold_signup date + 365
JOIN product AS p ON s.product_id = p.product_id
ORDER BY Points Earned DESC
LIMIT 1
OUTPUT
              product_id
                        created_date
                                    gold_signup_date
                                                    points_earned
     userid
     integer
               integer
                         date
                                     date
                                                    numeric
```

2017-12-07

2017-04-21

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SELECT * , RANK() OVER(PARTITION BY userid ORDER BY created_date) FROM sales

OUTPUT

	integer 🙃	date	integer 6	bigint 6
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
7	1	2019-10-23	2	7
В	2	2017-09-24	1	1
9	2	2017-11-08	2	2
10	2	2018-09-10	3	3
11	2	2020-07-20	3	4
12	3	2016-11-10	1	1
13	3	2016-12-15	2	2
14	3	2016-12-20	2	3
15	3	2017-12-07	2	4
16	3	2019-12-18	1	5

11. Rank all transactions of the customers?

userid created_date product_id rank