



# PIZZA SALES REPORT

by Chirag Sharma



## 1.WHAT IS THE TOTAL AMOUNT EACH CUSTOMER SPENT ON ZOMATO?

```
▼ select c.userid, sum(p.price) as Total_amount from customers as c
join product as p
ON c.product_id = p.product_id
group by 1
order by 1
```

| Data Output |                   | Messages               | Notifications |
|-------------|-------------------|------------------------|---------------|
|             | userid<br>integer | total_amount<br>bigint |               |
| 1           | 1                 | 5230                   |               |
| 2           | 2                 | 2510                   |               |
| 3           | 3                 | 4570                   |               |

## 2.HOW MANY DAYS HAVE EACH CUSTOMER VISIT ON ZOMATO?

No limit

Query

Query History

1

▼

select

userid,

count

(order\_date)

as

Total\_days

from

customers

2

group by

1

3

order by

1

| Data Output |                   | Messages |                      | Notifications |  |
|-------------|-------------------|----------|----------------------|---------------|--|
|             | userid<br>integer |          | total_days<br>bigint |               |  |
| 1           |                   | 1        |                      | 7             |  |
| 2           |                   | 2        |                      | 4             |  |
| 3           |                   | 3        |                      | 5             |  |



### 3. WHAT WAS THE FIRST PRODUCT PURCHASED BY EACH CUSTOMER?

No limit

E

Query

Query History

1

<

select

userid,

order\_date,

product\_id

from

(select

\*

,

rank()

over(partition by

userid

order by

order\_date)

as

ranks

from

customers)

as

d

where

ranks =

1

Data Output

Messages

Notifications

|   | <div>userid</div> <div>integer</div> <div></div> | <div>order_date</div> <div>date</div> <div></div> | <div>product_id</div> <div>integer</div> <div></div> |
|---|--|---|--|
| 1 | 1  | 2016-03-11  | 1  |
| 2 | 2  | 2017-09-24  | 1  |
| 3 | 3  | 2016-11-10  | 1  |

#### 4. WHAT IS THE MOST PURCHASED ITEM ON THE MENU AND HOW MANY TIMES WAS IT PURCHASED BY THE CUSTOMERS?

Query Query History

```
1 select * from
2 (select *, row_number()over(partition by userid order by total_amount desc) as ranks from
3 (select userid, product_id, count(product_id) as Total_orders, sum(price) as Total_amount from
4 (select a.userid, a.product_id, b.price from customers as a
5 join product as b
6 ON a.product_Id = b.product_id)
7 group by 1,2
8 order by 4 desc)as f)as q
9 where ranks = 1
```

Data Output

Messages

Notifications

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|   | <div>userid</div> <div>integer</div> <div>🔒</div> | <div>product_id</div> <div>integer</div> <div>🔒</div> | <div>total_orders</div> <div>bigint</div> <div>🔒</div> | <div>total_amount</div> <div>bigint</div> <div>🔒</div> |  |
|---|---|---|--|--|--|
| 1 | 1   | 2   | 3  | 2610   |  |
| 2 | 2   | 1   | 1  | 980  |  |
| 3 | 3   | 2   | 3  | 2610   |  |



## 5. Which item is the most popular for the each of the customer?










```
1 select * from
2 (select *, rank()over(partition by userid order by total_orders desc) from
3 (select userid, product_id, count(product_id) as Total_orders from customers
4 group by 1,2
5 order by 1)as f)as q
6 where rank = 1
```

|   | userid<br>integer | product_id<br>integer | total_orders<br>bigint | rank<br>bigint |
|---|-------------------|-----------------------|------------------------|----------------|
| 1 | 1                 | 2                     | 3                      | 1              |
| 2 | 2                 | 3                     | 2                      | 1              |
| 3 | 3                 | 2                     | 3                      | 1              |



**6. Which item was purchased by the customer after they become a member?**

```
1 select * from
2 (select *, rank()over(partition by userid order by order_date) as ranks from
3 (select a.userid, a.product_id, a.order_date, g.gold_signup_date from customers as a
4 join gold_signup as g
5 ON a.userid = g.userid
6 and a.order_date > g.gold_signup_date)as d)as q
7 where ranks = 1
```

| Data Output   |   | Messages  | Notifications   |
|---|---|---|---|
|    |  |    |    |
|    |  |  |  |
|  |   |   |   |

|   | userid<br>integer | product_id<br>integer | order_date<br>date | gold_signup_date<br>date | ranks<br>bigint |
|---|-------------------|-----------------------|--------------------|--------------------------|-----------------|
| 1 | 1                 | 3                     | 2018-03-19         | 2017-09-22               | 1               |
| 2 | 3                 | 2                     | 2017-12-07         | 2017-04-21               | 1               |

## 7. Which item was purchased just before the customer become member?

No limit

E

Query

Query History

1

select \* from

2

(select \*, rank()over(partition by userid order by order\_date desc) as ranks from

3

(select a.userid, a.product\_id, a.order\_date, g.gold\_signup\_date from customers as a

4

join gold\_signup as g

5

ON a.userid = g.userid

6

and a.order\_date < g.gold\_signup\_date)as d)as q

7

where ranks = 1|

Data Output

Messages

Notifications

|   | userid<br>integer | product_id<br>integer | order_date<br>date | gold_signup_date<br>date | ranks<br>bigint |
|---|-------------------|-----------------------|--------------------|--------------------------|-----------------|
| 1 | 1                 | 2                     | 2017-04-19         | 2017-09-22               | 1               |
| 2 | 3                 | 2                     | 2016-12-20         | 2017-04-21               | 1               |



**8. What is the total number of orders and amount spent by each customer before they become member?**

```
1 select userid, count(product_id) as Total_orders, sum(price) as Total_amount from
2 (select c.userid, c.order_date, g.gold_signup_date, c.product_id,
3  p.price from customers as c
4  join product as p
5  ON c.product_id = p.product_id
6  join gold_signup as g
7  ON c.userid = g.userid AND c.order_date < g.gold_signup_date)as d
8 group by 1
9 order by 1
```

Data Output

Messages

Notifications

|   | userid<br>integer | total_orders<br>bigint | total_amount<br>bigint |
|---|-------------------|------------------------|------------------------|
| 1 | 1                 | 5                      | 4030                   |
| 2 | 3                 | 3                      | 2720                   |



9. If buying each product generated points for e.g. 5rs- 2 Zomato points and each product has a different purchasing point. For e.g. for P1 (5rs – 1) Zomato point , for P2 10rs for 5 Zomato point and P3 (5rs- 1) Zomato point,

No limit

Query

Query History

1

-- Total Points Collected by Each customers

2

select userid, sum(pts) as Total\_points from

3

(select \*, price/points as pts from

4

(select c.\*, p.price, CASE when c.product\_id = 1 then 5 when c.product\_id = 2 then 2 else 5 end as points from customers as c

5

join product as p

6

ON c.product\_id = p.product\_id)as d)as q

7

group by 1

8

order by 1

9

10

-- Top Product Based On points

11

select product\_id, sum(pts) as Total\_points from

12

(select \*, price/points as pts from

13

(select c.\*, p.price, CASE when c.product\_id = 1 then 5 when c.product\_id = 2 then 2 else 5 end as points from customers as c

14

join product as p

15

ON c.product\_id = p.product\_id)as w)as k

16

group by 1

17

order by 2 desc

Data Output

Messages

Notifications

|   | userid<br>integer | total_points<br>bigint |
|---|-------------------|------------------------|
| 1 | 1                 | 1829                   |
| 2 | 2                 | 763                    |
| 3 | 3                 | 1697                   |

Data Output

Messages

Notifications

|   | product_id<br>integer | total_points<br>bigint |
|---|-----------------------|------------------------|
| 1 | 2                     | 3045                   |
| 2 | 1                     | 980                    |
| 3 | 3                     | 264                    |



```
Query Query History  
1 select *,  
2 rank()over(partition by userid order by order_date) as ranks from customers |
```

Data Output

Messages

Notifications

|    | userid<br>integer | <div><div></div></div> | order_date<br>date | <div><div></div></div> | product_id<br>integer | <div><div></div></div> | ranks<br>bigint | <div><div></div></div> |
|----|-------------------|------------------------|--------------------|------------------------|-----------------------|------------------------|-----------------|------------------------|
| 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               |                        |
| 8  |                   | 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 the transactions for each member whenever they are a Zomato gold for every non gold member transactions mark as Na**

```
1 select userid, order_date, gold_signup_date, case when rank = '0' then 'NA' else rank end as ranks from
2 (select *,
3  cast(CASE when gold_signup_date is null then 0 else rank()over(partition by userid order by order_date) end as varchar) as rank from
4  (select c.userid, c.order_date, g.gold_signup_date
5   from customers as c
6   left JOIN gold_signup as g
7   ON c.userid = g.userid) as d)as w
```

Data Output

Messages

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|    | userid<br>integer | 🔒 | order_date<br>date | 🔒 | gold_signup_date<br>date | 🔒 | ranks<br>character varying | 🔒 |
|----|-------------------|---|--------------------|---|--------------------------|---|----------------------------|---|
| 1  |                   | 1 | 2016-03-11         |   | 2017-09-22               |   | 1                          |   |
| 2  |                   | 1 | 2016-05-20         |   | 2017-09-22               |   | 2                          |   |
| 3  |                   | 1 | 2016-11-09         |   | 2017-09-22               |   | 3                          |   |
| 4  |                   | 1 | 2017-03-11         |   | 2017-09-22               |   | 4                          |   |
| 5  |                   | 1 | 2017-04-19         |   | 2017-09-22               |   | 5                          |   |
| 6  |                   | 1 | 2018-03-19         |   | 2017-09-22               |   | 6                          |   |
| 7  |                   | 1 | 2019-10-23         |   | 2017-09-22               |   | 7                          |   |
| 8  |                   | 2 | 2017-09-24         |   | [null]                   |   | NA                         |   |
| 9  |                   | 2 | 2017-11-08         |   | [null]                   |   | NA                         |   |
| 10 |                   | 2 | 2018-09-10         |   | [null]                   |   | NA                         |   |
| 11 |                   | 2 | 2020-07-20         |   | [null]                   |   | NA                         |   |
| 12 |                   | 3 | 2016-11-10         |   | 2017-04-21               |   | 1                          |   |
| 13 |                   | 3 | 2016-12-15         |   | 2017-04-21               |   | 2                          |   |
| 14 |                   | 3 | 2016-12-20         |   | 2017-04-21               |   | 3                          |   |
| 15 |                   | 3 | 2017-12-07         |   | 2017-04-21               |   | 4                          |   |
| 16 |                   | 3 | 2019-12-18         |   | 2017-04-21               |   | 5                          |   |