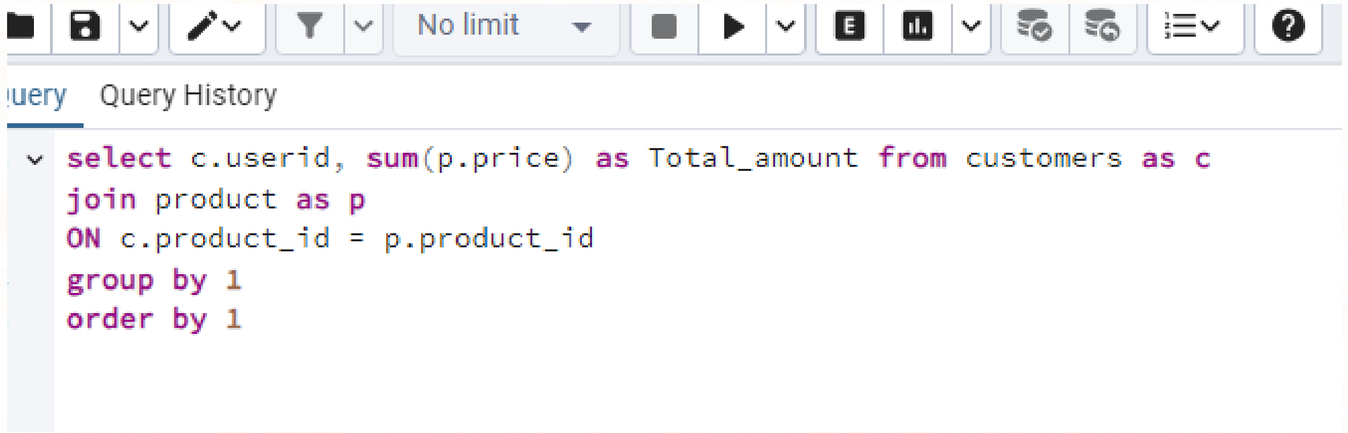
PIZZA SALES REPORT

by Chirag Sharma

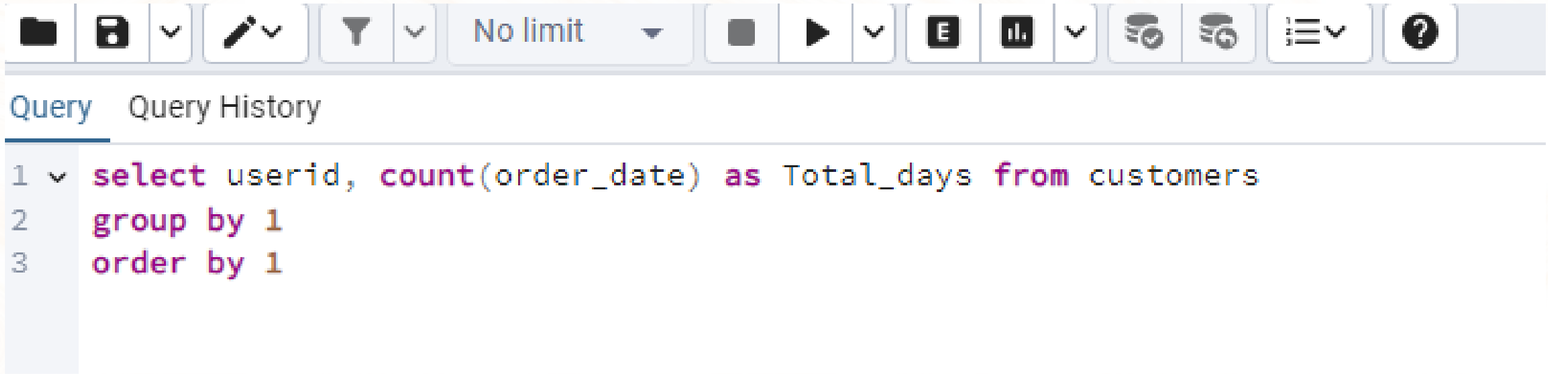
1.WHAT IS THE TOTAL AMOUNT EACH CUSTOMER SPENT ON ZOMATO?

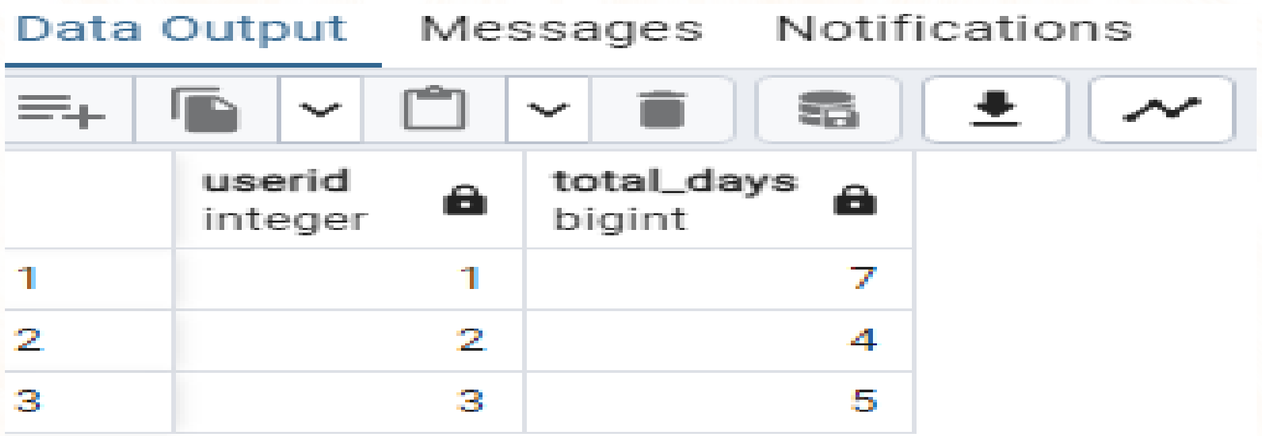


Data Output | Messages | Notifications

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

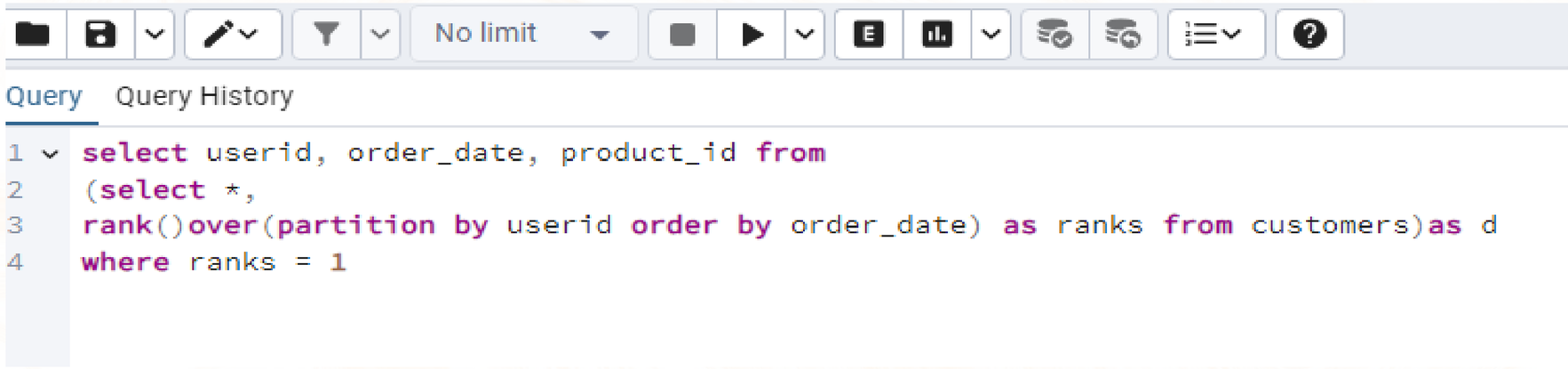
2 .HOW MANY DAYS HAVE EACH CUSTOMER VISIT ON ZOMATO?

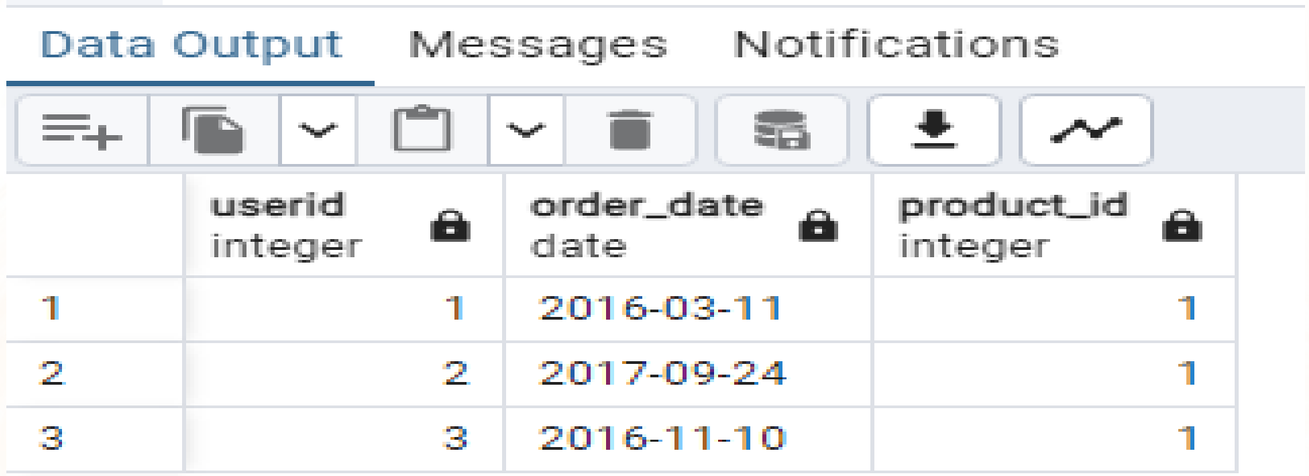




	userid integer	total_days bigint
1	1	7
2	2	4
3	3	5

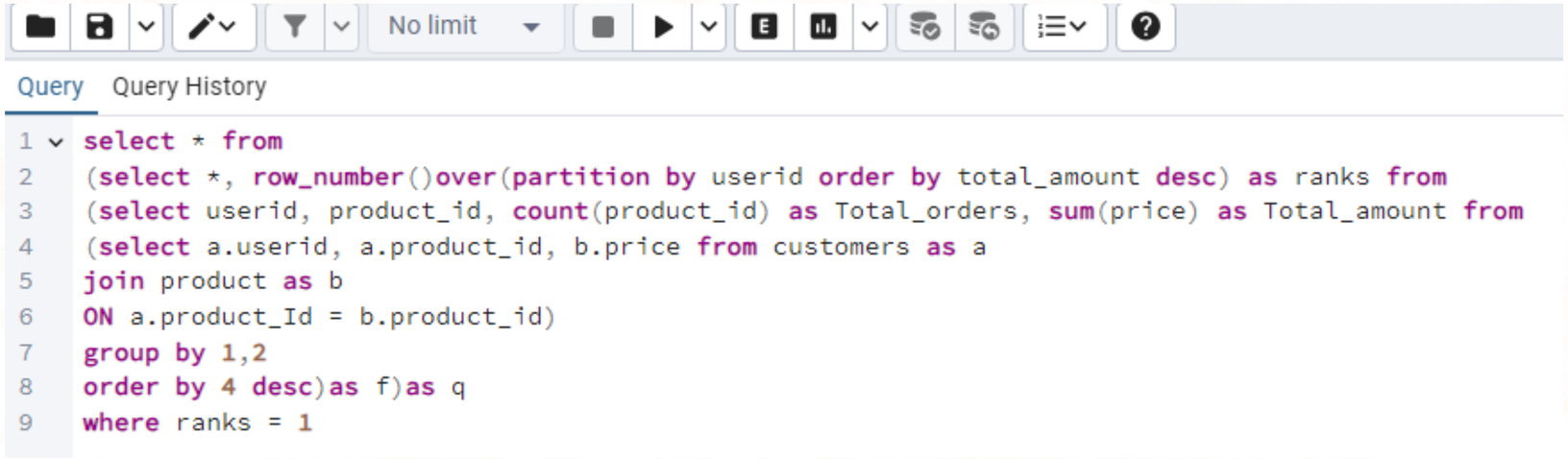
3. WHAT WAS THE FIRST PRODUCT PURCHASED BY EACH CUSTOMER?





	userid integer	order_date date	product_id integer
1	1	2016-03-11	1
2	2	2017-09-24	1
3	3	2016-11-10	1

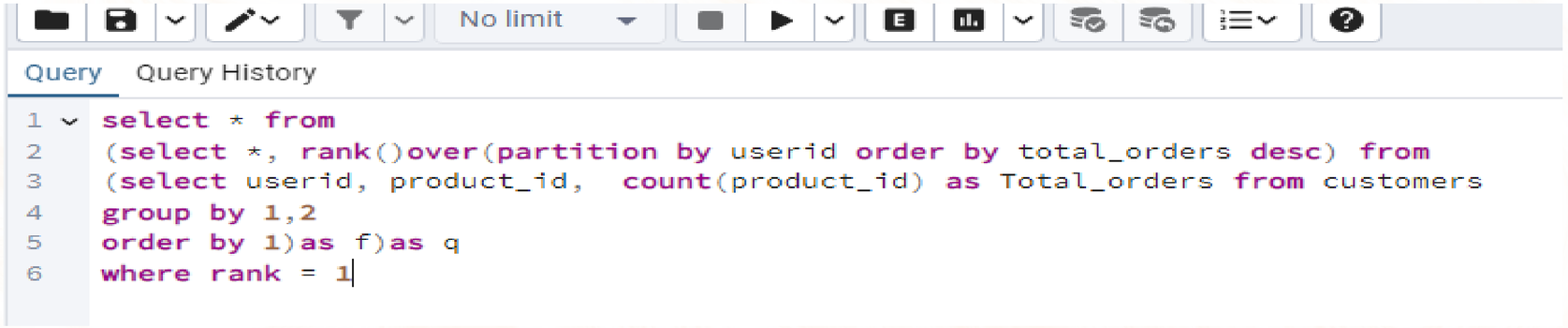
4.WHAT IS THE MOST PURCHASED ITEM ON THE MENU AND HOW MANY TIMES WAS IT PURCHASED BY THE CUSTOMERS?



Data Output | Messages | Notifications

	userid integer	product_id integer	total_orders bigint	total_amount bigint
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?



Data Output | Messages | Notifications

	userid integer	product_id integer	total_orders bigint	rank 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?

No limit

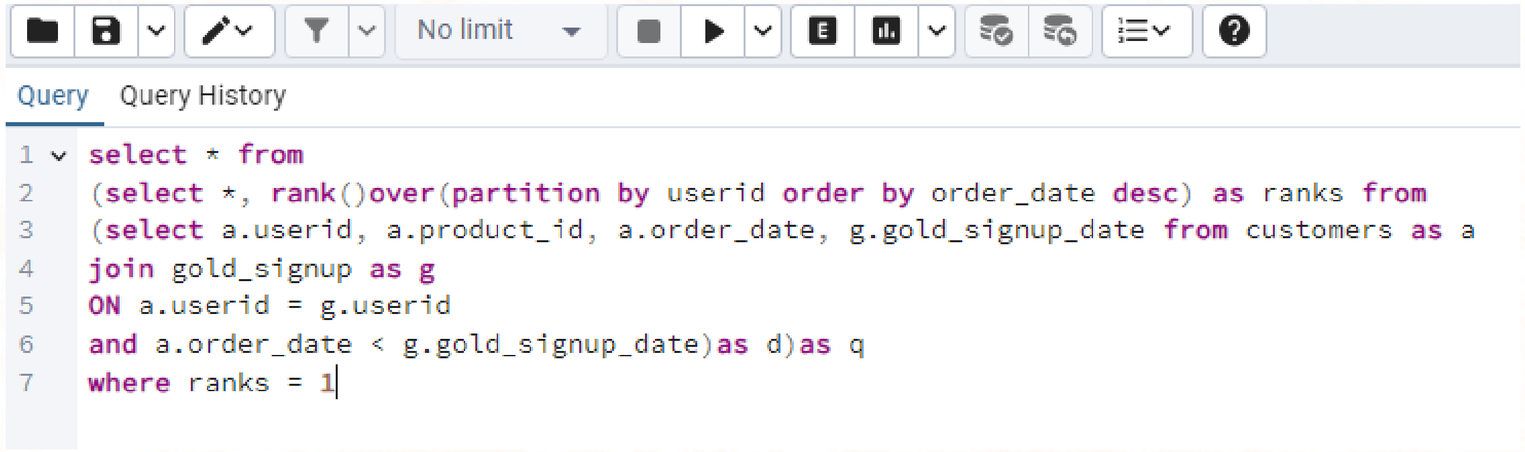
Query | Query History

```
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 integer	product_id integer	order_date date	gold_signup_date date	ranks bigint
1	1	3	2018-03-19	2017-09-22	1
2	3	2	2017-12-07	2017-04-21	1

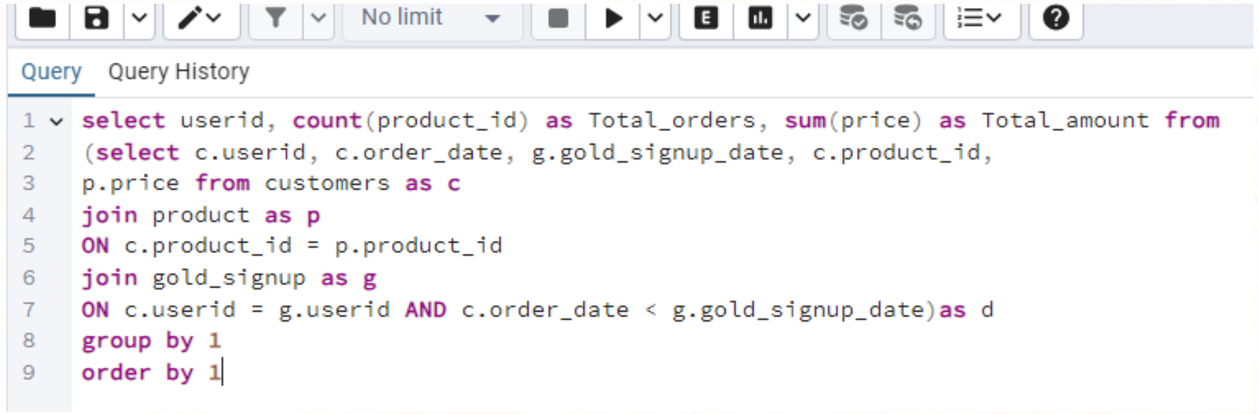
7. Which item was purchased just before the customer become member?

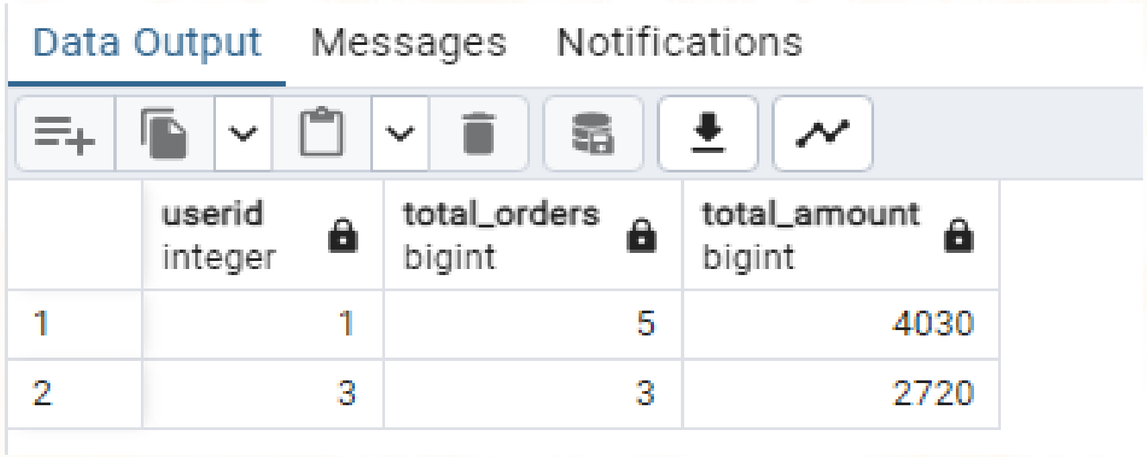


Data Output | Messages | Notifications

	userid integer	product_id integer	order_date date	gold_signup_date date	ranks 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?





	userid integer	total_orders bigint	total_amount 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,

```sql
-- Total Points Collected by Each customers
select userid, sum(pts) as Total_points from
(select *, price/points as pts from
(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
join product as p
ON c.product_id = p.product_id)as d)as q
group by 1
order by 1

-- Top Product Based On points
select product_id, sum(pts) as Total_points from
(select *, price/points as pts from
(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
join product as p
ON c.product_id = p.product_id)as w)as k
group by 1
order by 2 desc
```

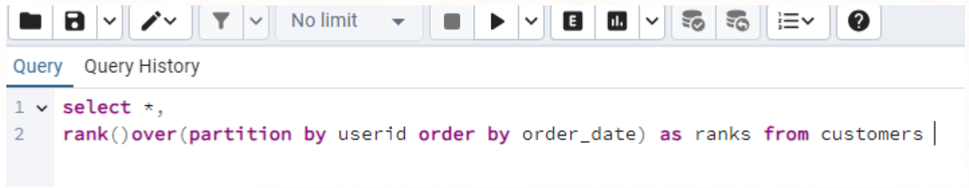
Data Output | Messages | Notifications

	userid integer	total_points bigint
1	1	1829
2	2	763
3	3	1697

Data Output | Messages | Notifications

	product_id integer	total_points bigint
1	2	3045
2	1	980
3	3	264

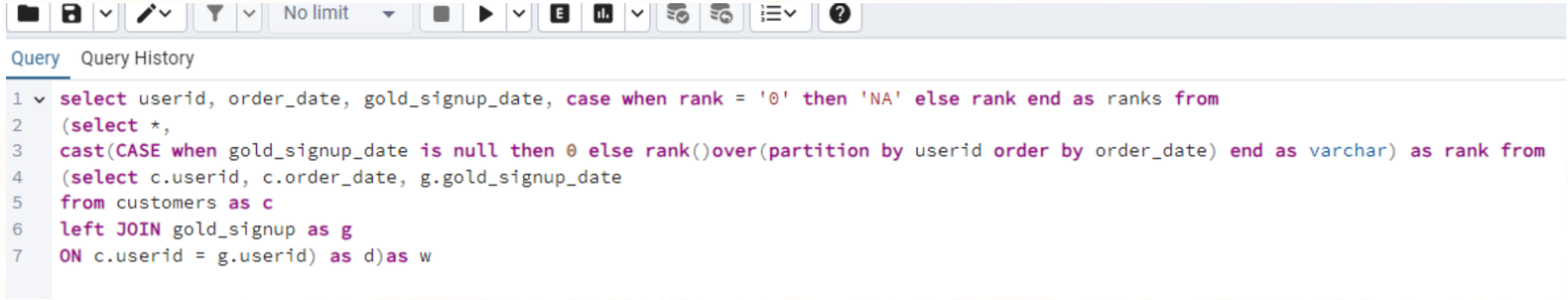
10. Rank all Transactions of the customers



Data Output | Messages | Notifications

	userid integer	order_date date	product_id integer	ranks bigint
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



Query | Query History

```
select userid, order_date, gold_signup_date, case when rank = '0' then 'NA' else rank end as ranks from
(select *,
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
(select c.userid, c.order_date, g.gold_signup_date
from customers as c
left JOIN gold_signup as g
ON c.userid = g.userid) as d)as w
```

Data Output | Messages | Notifications

	userid integer	order_date date	gold_signup_date date	ranks 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