***SQL QUERIES***

***1- What is the total amount each customer spent on the marketplace?***

**Solution-**

select s.user\_id, sum(p.price) as total\_amount

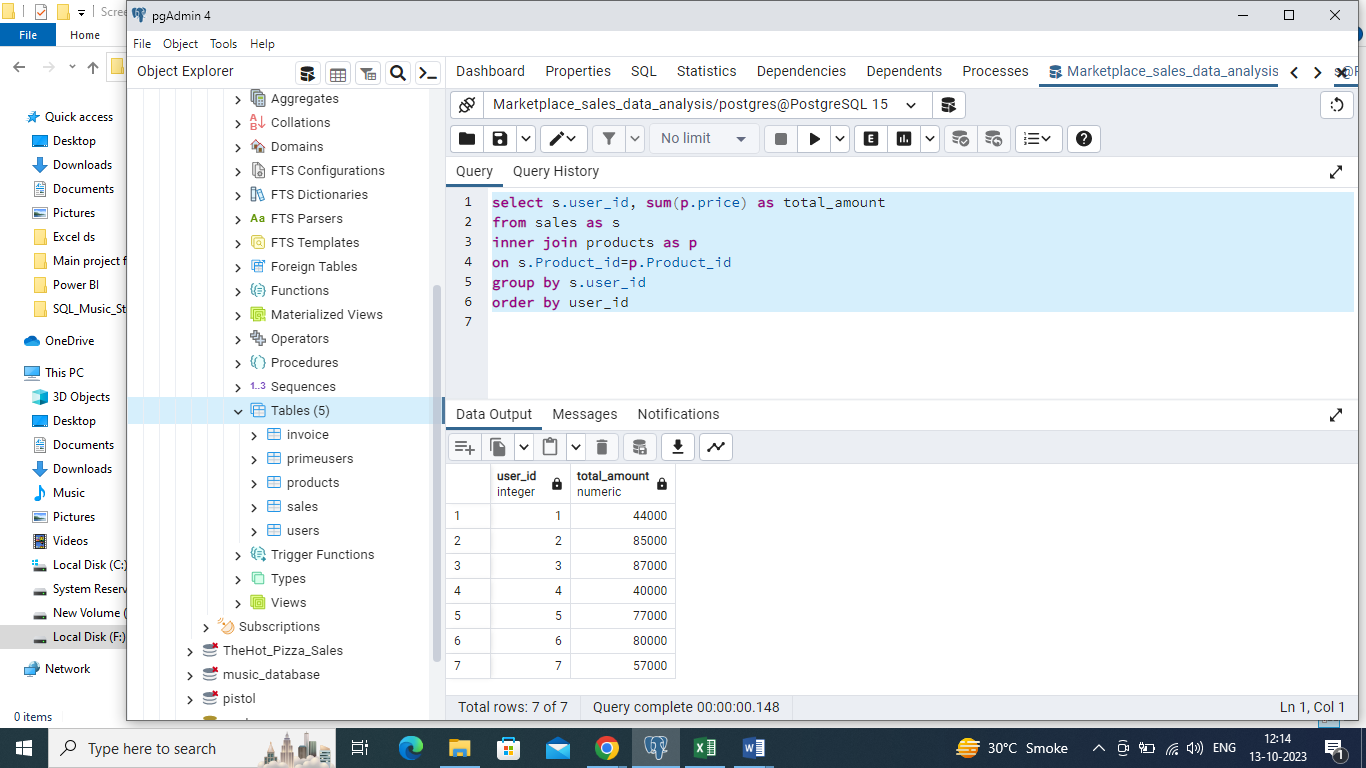
from sales as s

inner join products as p

on s.Product\_id=p.Product\_id

group by s.user\_id

order by user\_id



***2- how many days has each customer visited marketplace?***

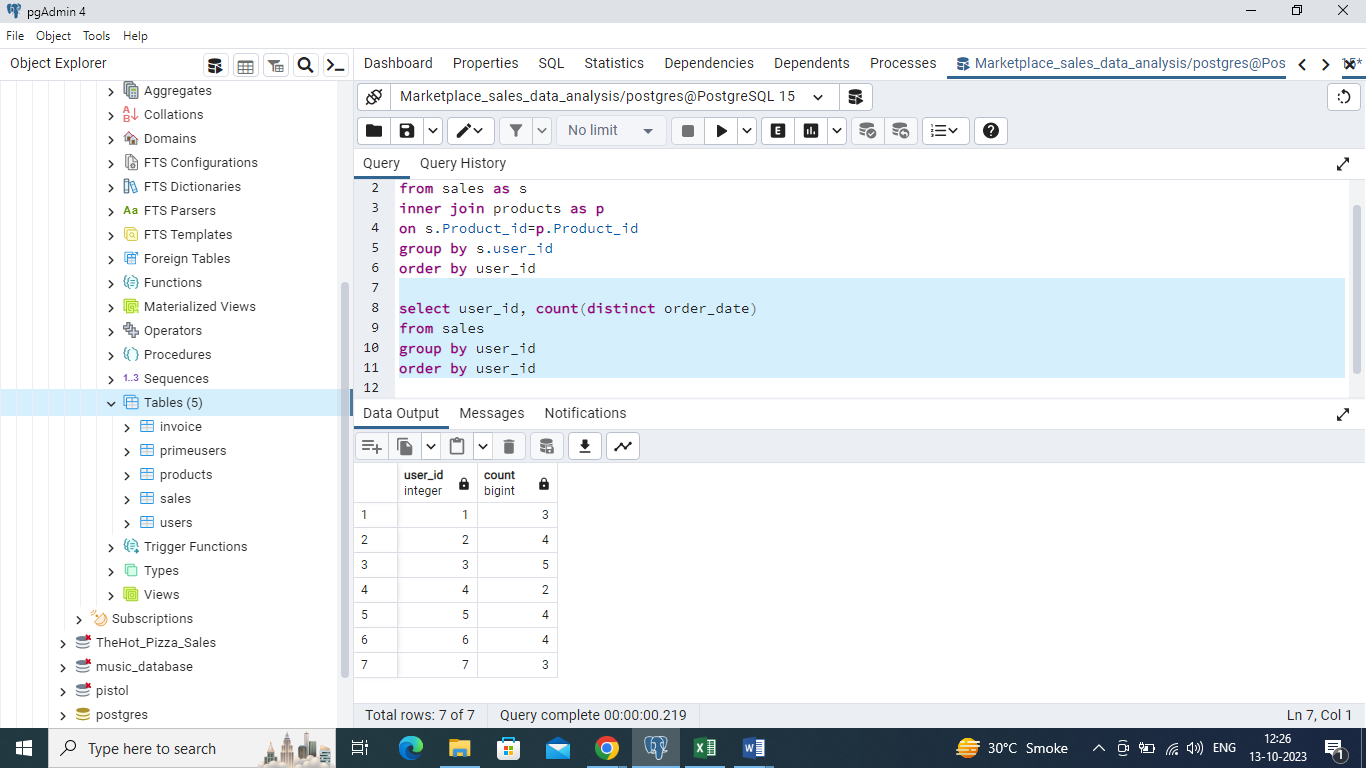
**Solution-**

select user\_id, count(distinct order\_date)

from sales

group by user\_id

order by user\_id



***3- what was the first product purchased by each customer?***

***Solution –***

with abc as

(

with cte as

(

select \*,

rank() over(partition by user\_id order by order\_date) as R

from sales)

select user\_id, order\_date,product\_id, R from cte

where R = 1)

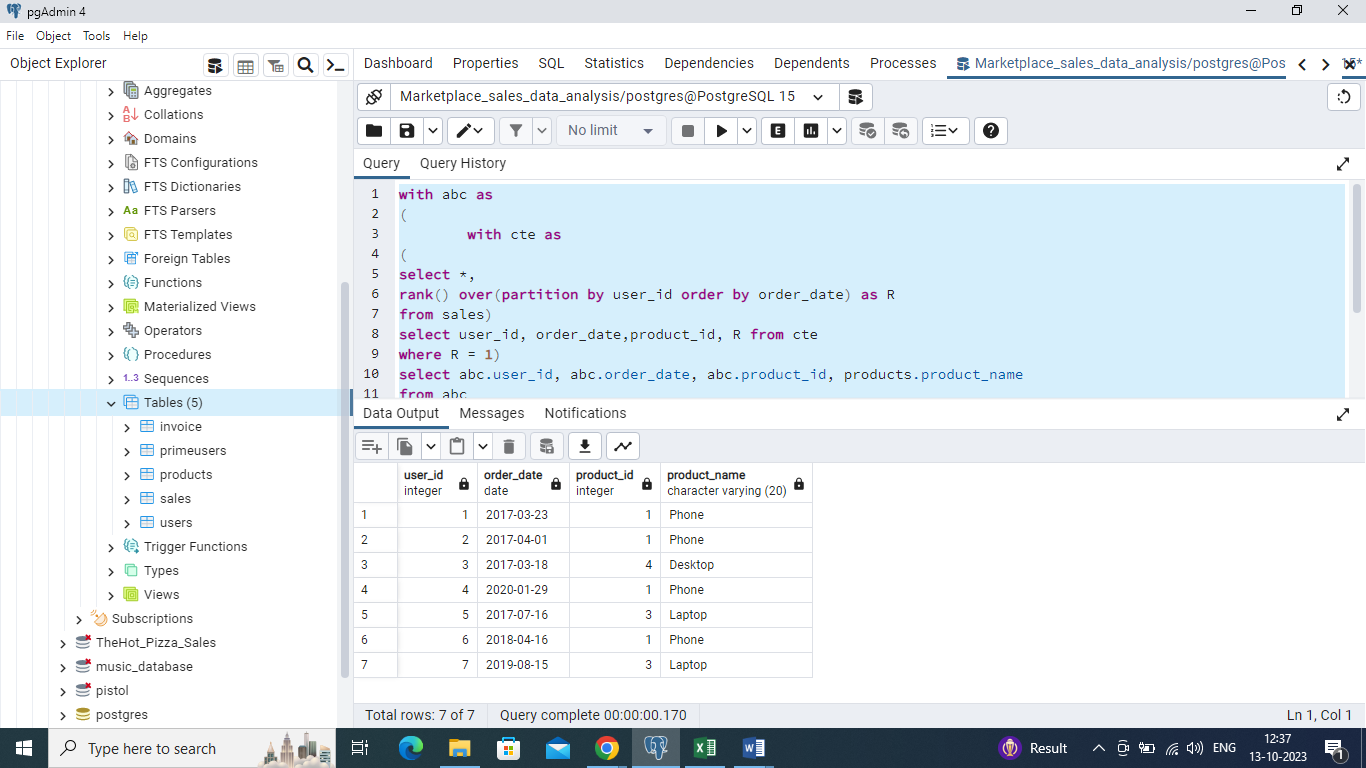
select abc.user\_id, abc.order\_date, abc.product\_id, products.product\_name

from abc

join products

on abc.product\_id=products.product\_id

order by abc.user\_id



***4- (a) What is the most purchased item on the menu and ,***

***(b) How many times was it purchased by all customers?***

***Solution (a)-***

with def as

(

with abc as

(

select product\_id, count(product\_id) over(partition by product\_id) as product\_count

from sales

order by product\_id

)

select distinct(product\_id), product\_count from abc

order by product\_id

limit 1

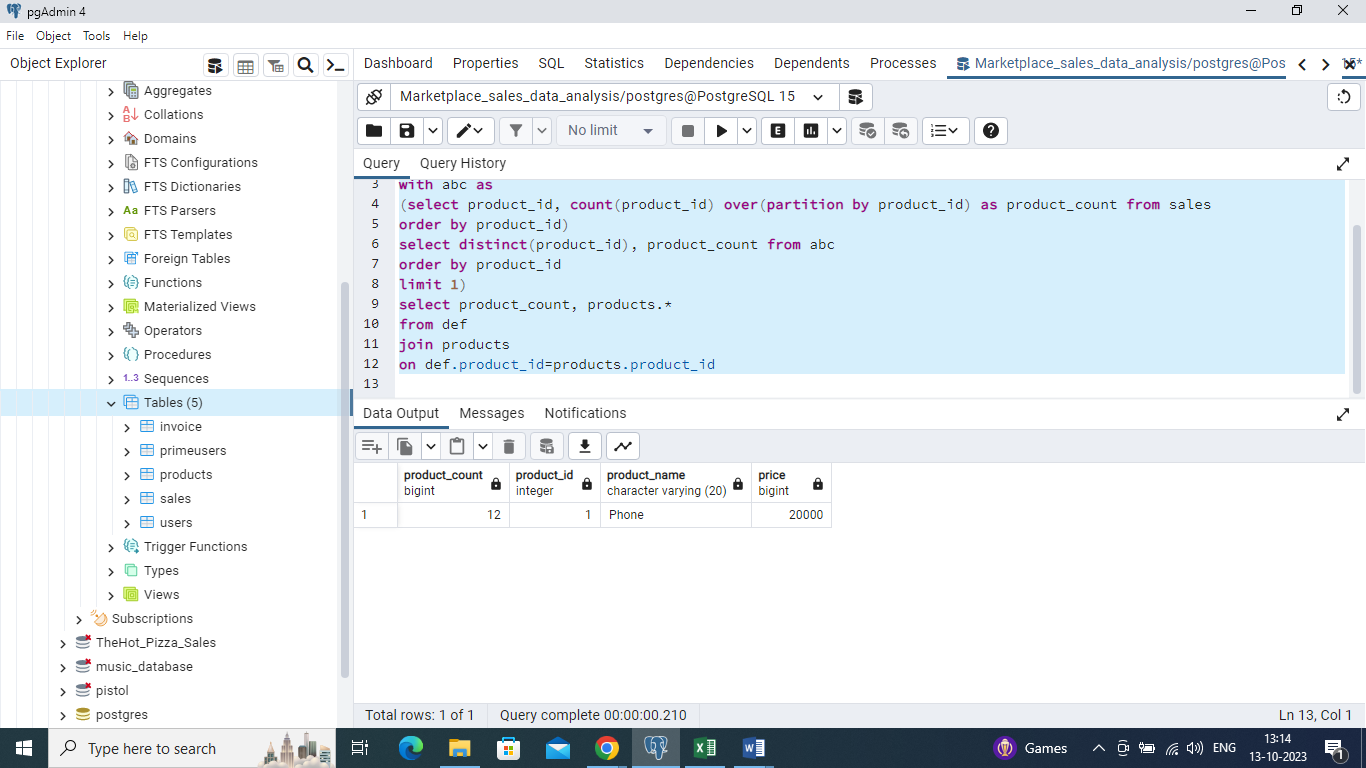
)

select product\_count, products.\*

from def

join products

on def.product\_id=products.product\_id



***Solution (b) –***

with abc as

(

select distinct(product\_id),

count(product\_id) over(partition by product\_id) as product\_count from sales

order by product\_count desc

limit 1

)

select count(sales.product\_id), sales.user\_id

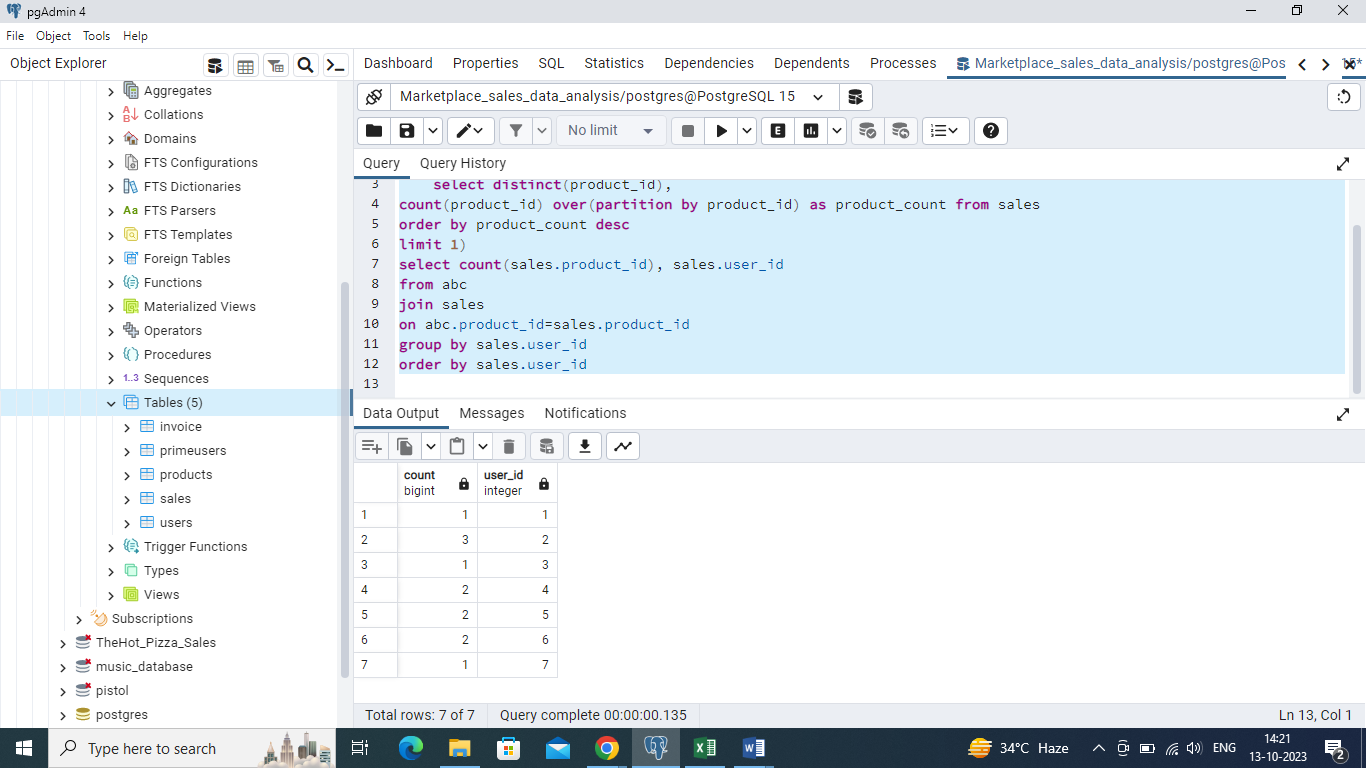
from abc

join sales

on abc.product\_id=sales.product\_id

group by sales.user\_id

order by sales.user\_id



***Q5- which item was the most popular for each customer?***

***Solution –***

with def as

(

with abc as

(

select user\_id, product\_id from sales

order by user\_id)

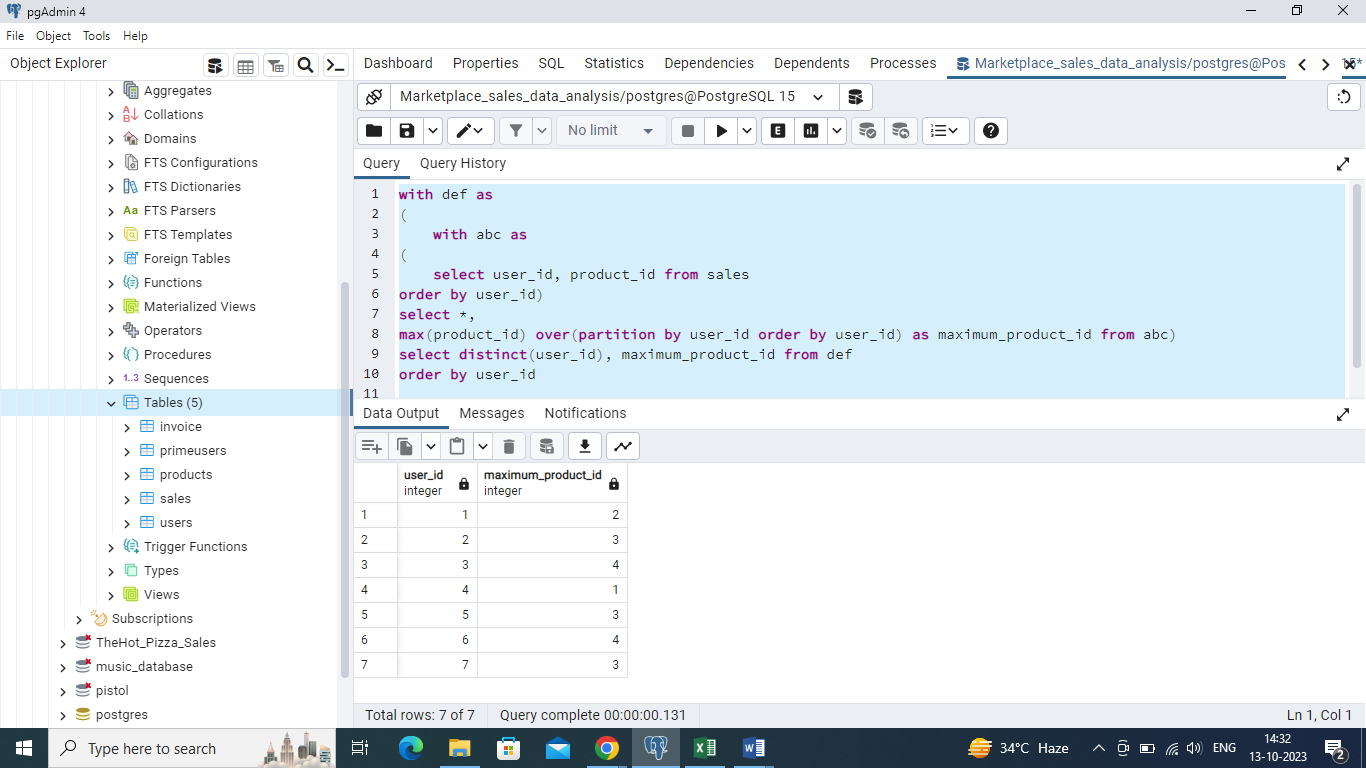
select \*,

max(product\_id) over(partition by user\_id order by user\_id) as maximum\_product\_id

from abc)

select distinct(user\_id), maximum\_product\_id from def

order by user\_id



***Q6- list of invoices of prime users and their billing state.***

***Solution –***

with abc as

(

select \*

from primeusers as p

join invoice as i

on p.user\_id=i.user\_id

)

select invoice\_id, billing\_state from abc

order by invoice\_id

