` /\* 1. GROUP BY with WHERE - Orders by Year and Quarter

Display, order year, quarter, order count, avg freight cost only for those orders where freight cost > 100 \*/

select extract(year from order\_date) as order\_year,

extract(quarter from order\_date) as quarter,

count(\*) as order\_count,

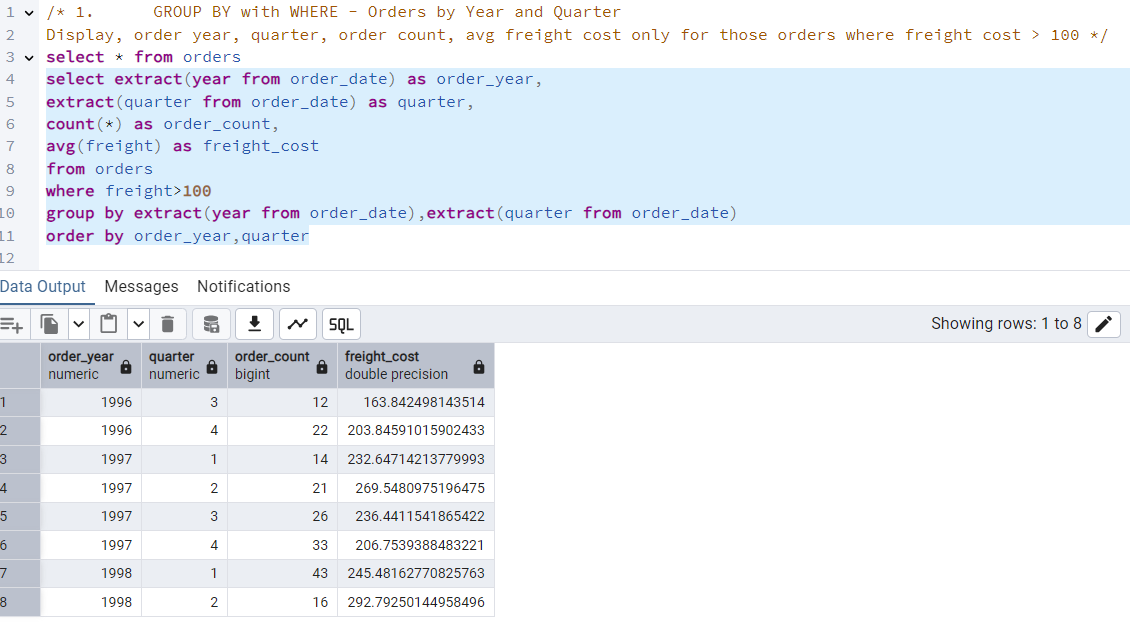
avg(freight) as freight\_cost

from orders

where freight>100

group by extract(year from order\_date),extract(quarter from order\_date)

order by order\_year,quarter



/\*2. GROUP BY with HAVING - High Volume Ship Regions

Display, ship region, no of orders in each region, min and max freight cost

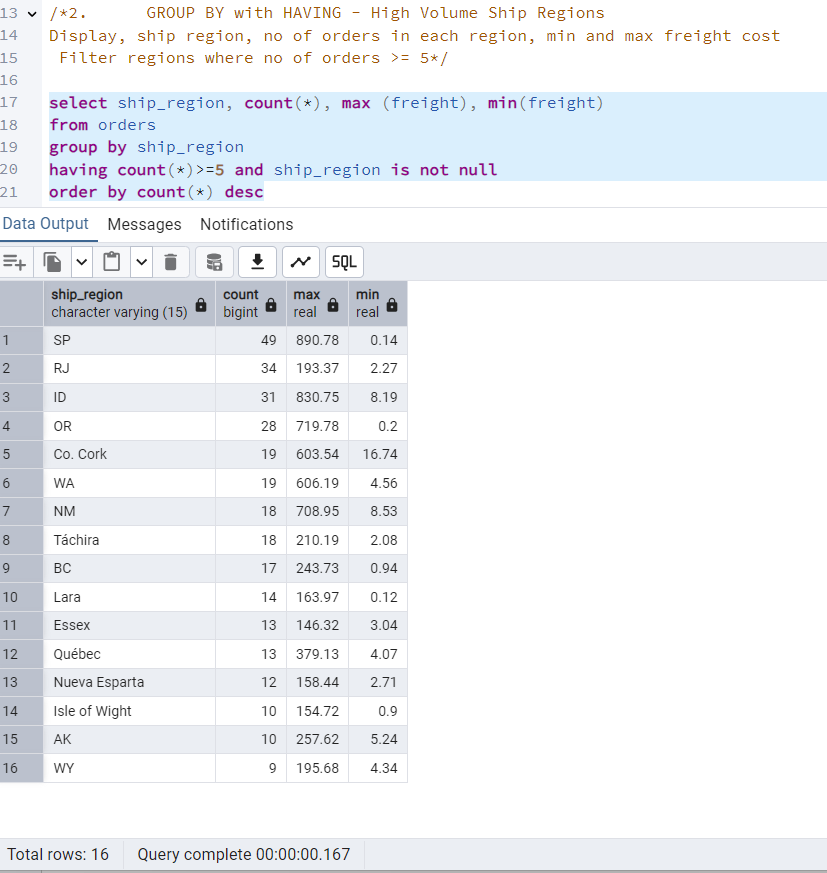
Filter regions where no of orders >= 5\*/

select ship\_region, count(\*), max (freight), min(freight)

from orders

group by ship\_region

having count(\*)>=5 and ship\_region is not null

order by count(\*) desc

/\*3. Get all title designations across employees and customers ( Try UNION & UNION ALL)\*/

select title as employee\_Designation

from employees

union

select contact\_title as customer\_Designation

from customers

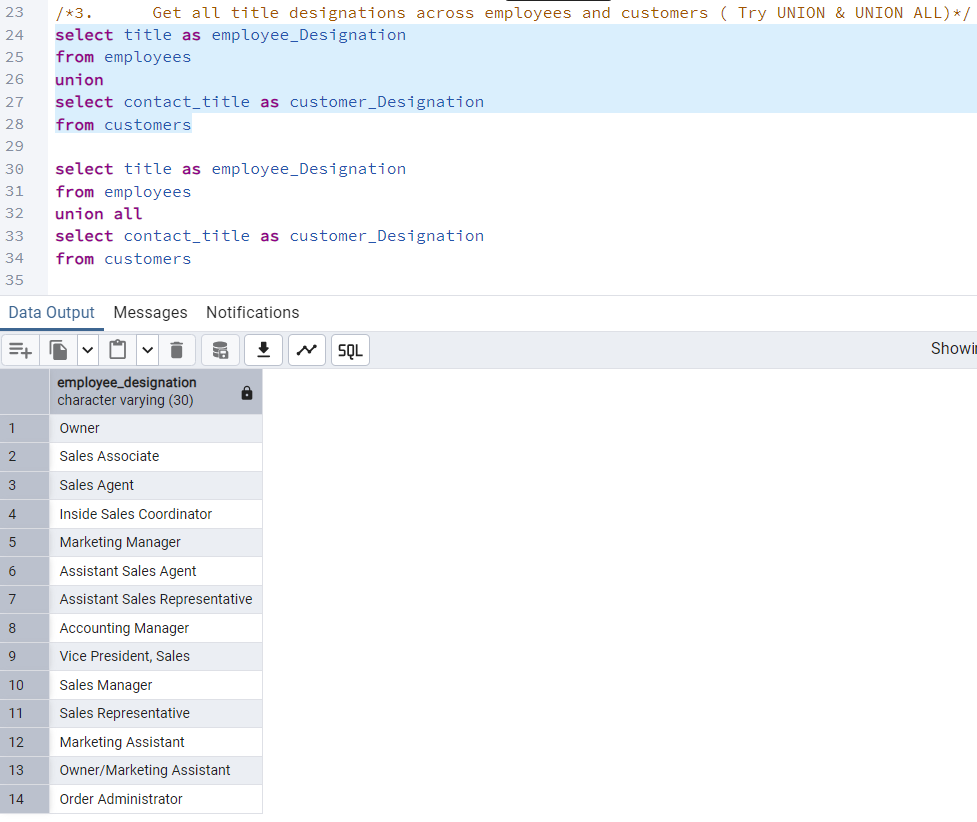
select title as employee\_Designation

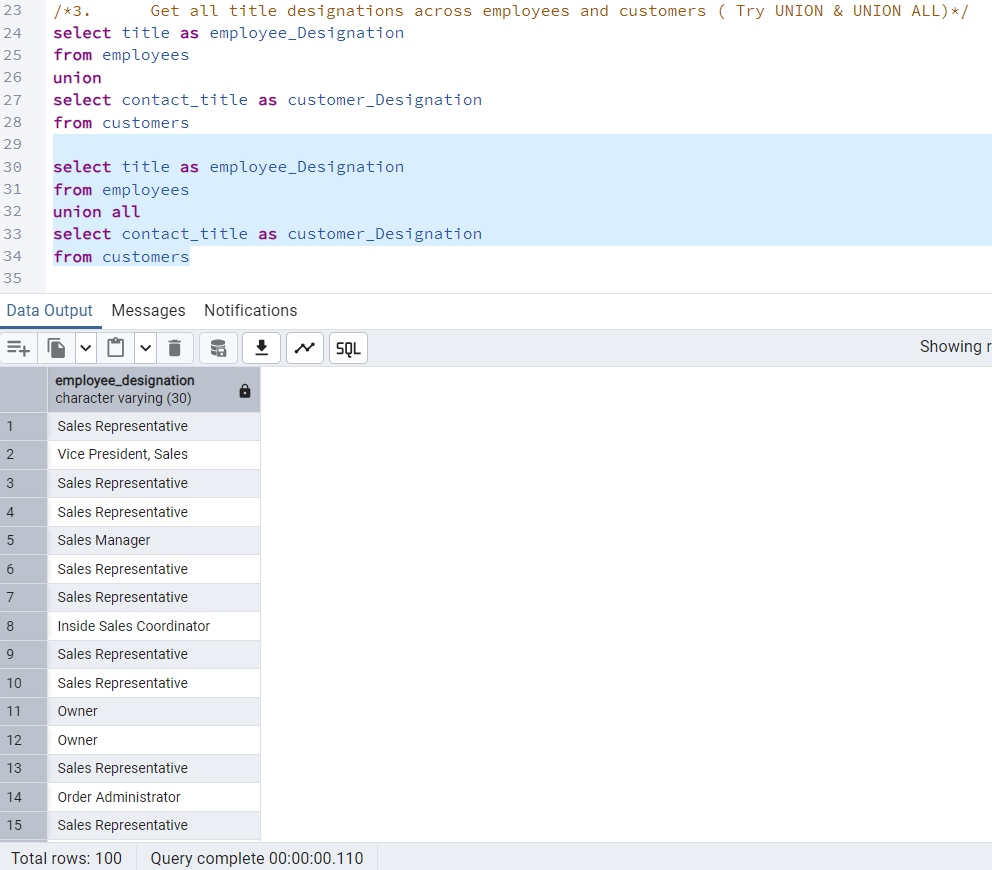
from employees

union all

select contact\_title as customer\_Designation

from customers





/\*4. Find categories that have both discontinued and in-stock products

(Display category\_id, instock means units\_in\_stock > 0, Intersect)\*/

select category\_id

from products

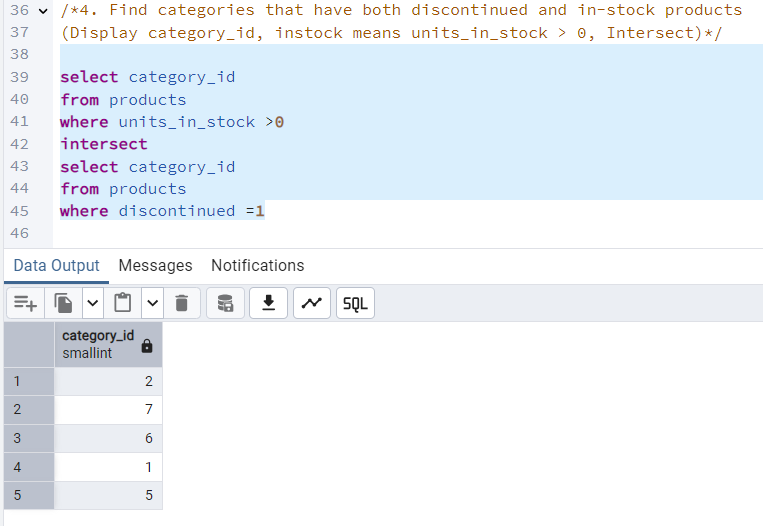
where units\_in\_stock >0

intersect

select category\_id

from products

where discontinued =1



/\*5. Find orders that have no discounted items (Display the order\_id, EXCEPT)\*/

select order\_id from order\_details

except

select order\_id from order\_details where discount !=0

