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 order\_quarter,

count (\*) as order\_count,

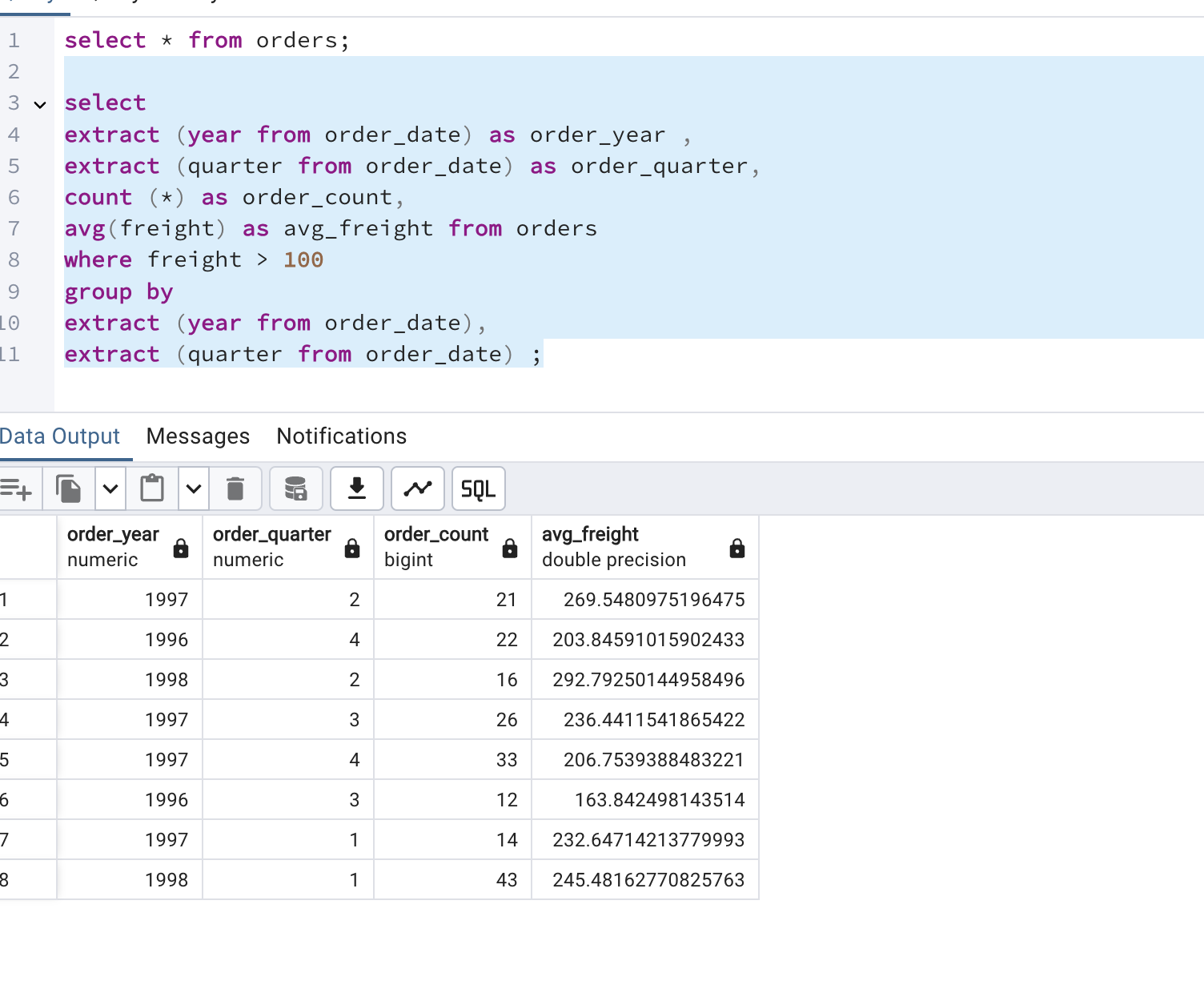
avg(freight) as avg\_freight from orders

where freight > 100

group by

extract (year from order\_date),

extract (quarter from order\_date) ;



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(\*) as order\_count,

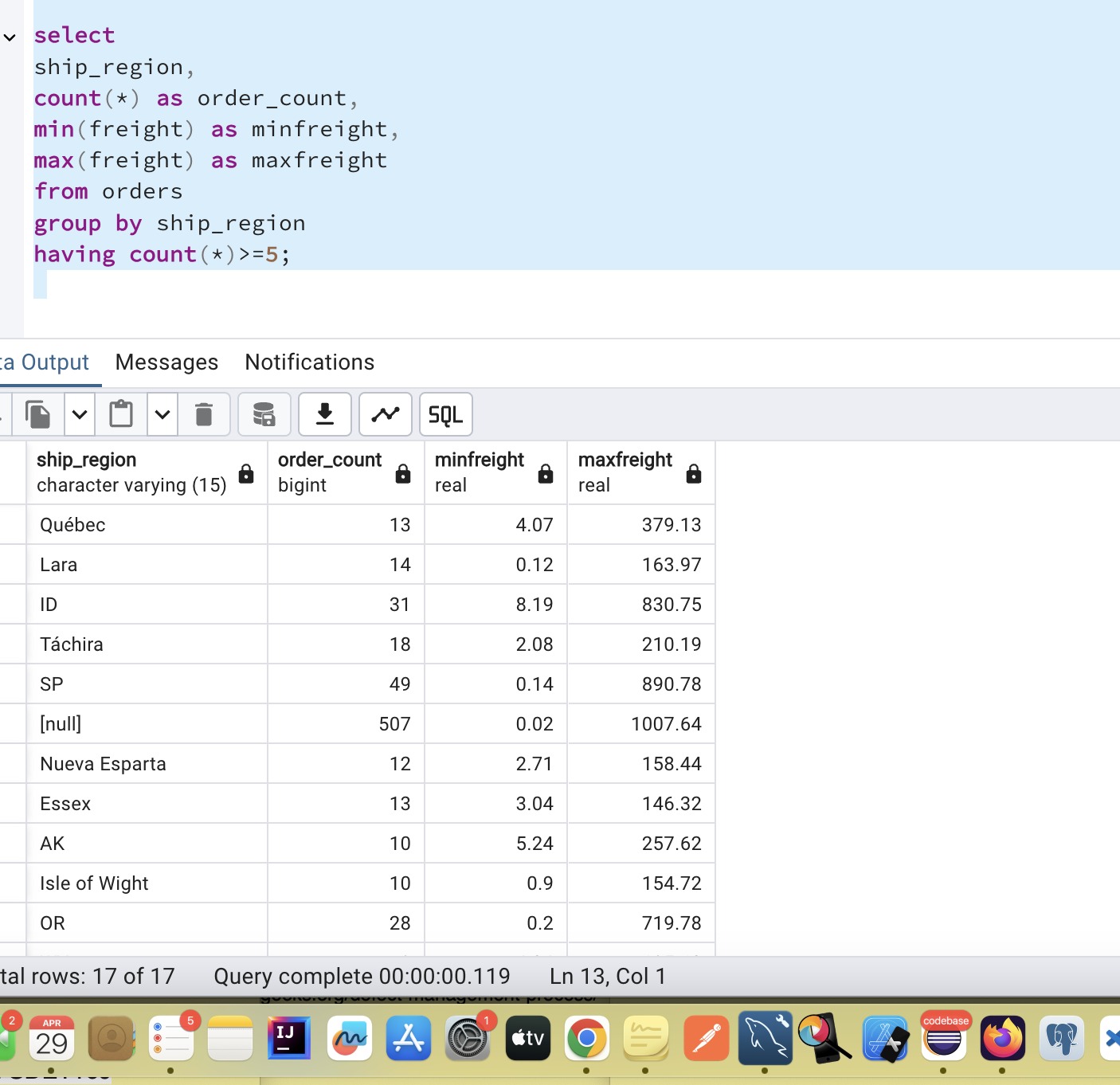
min(freight) as minfreight,

max(freight) as maxfreight

from orders

group by ship\_region

having count(\*)>=5;

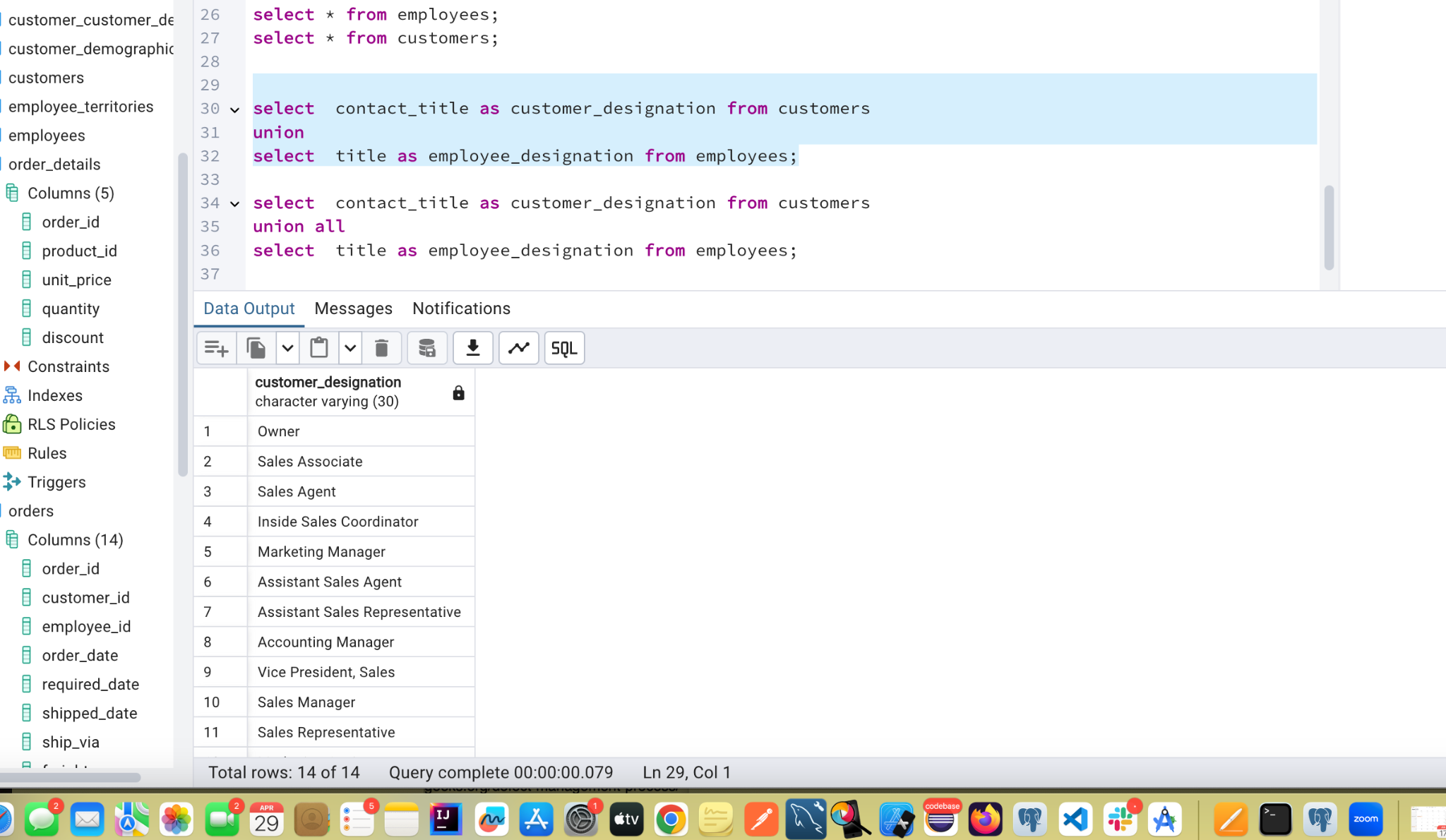


3. Get all title designations across employees and customers ( Try UNION & UNION ALL)

select contact\_title as customer\_designation from customers

union

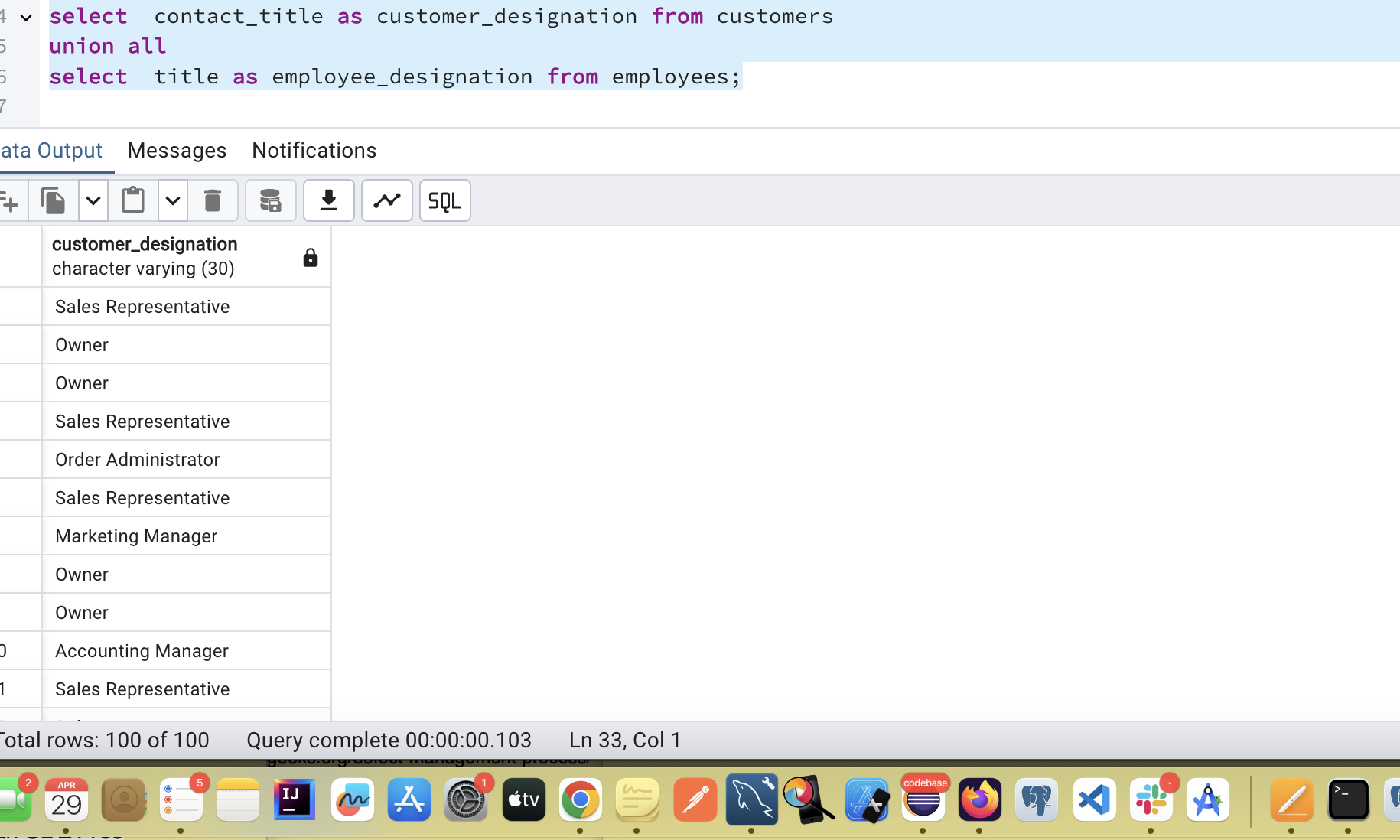
select title as employee\_designation from employees;



select contact\_title as customer\_designation from customers

union all

select title as employee\_designation from employees;



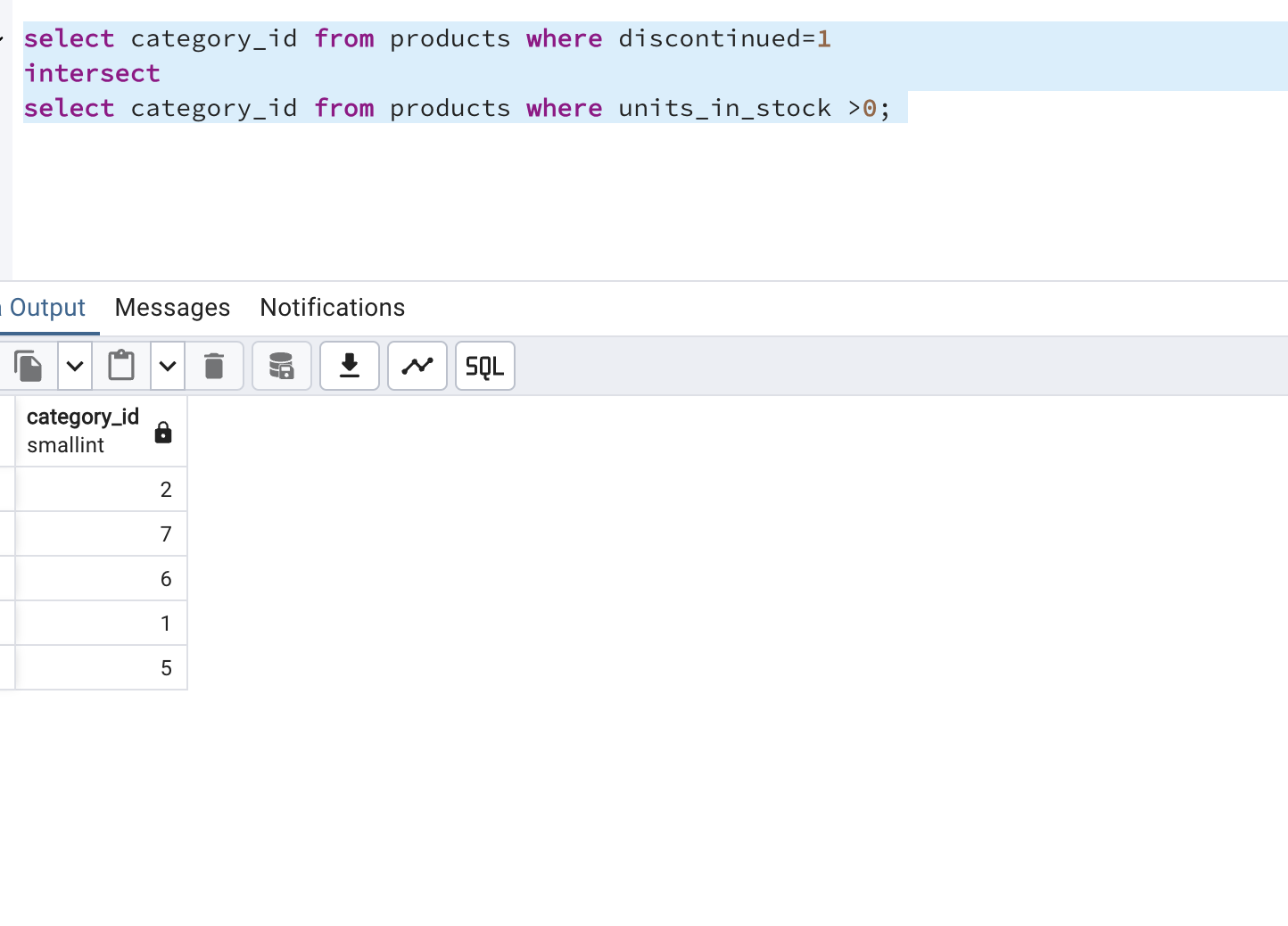
4. Find categories that have both discontinued and in-stock products

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

select category\_id from products where discontinued=1

intersect

select category\_id from products where units\_in\_stock >0;



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

select distinct order\_id from order\_details

except

select distinct order\_id from order\_details where discount <0;

