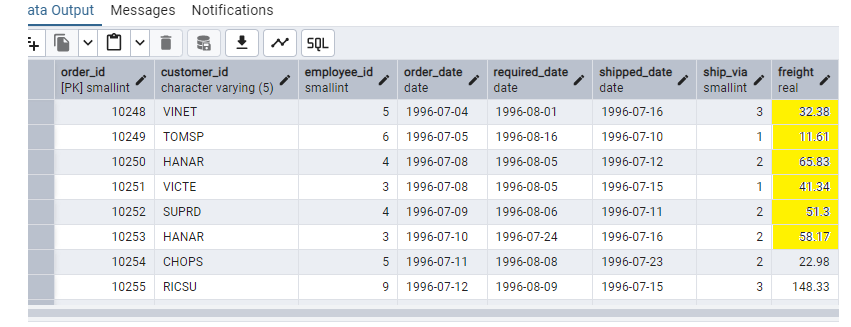
**Day 5**

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 \* from orders;

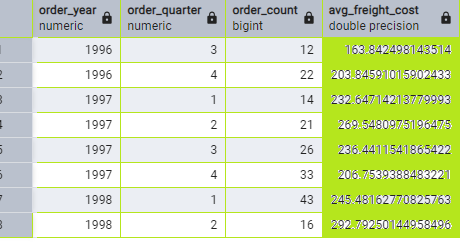


select \* from orders;

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\_cost FROM orders

WHERE freight > 100

GROUP BY EXTRACT(YEAR FROM order\_date),EXTRACT(QUARTER FROM order\_date)ORDER BY order\_year,order\_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

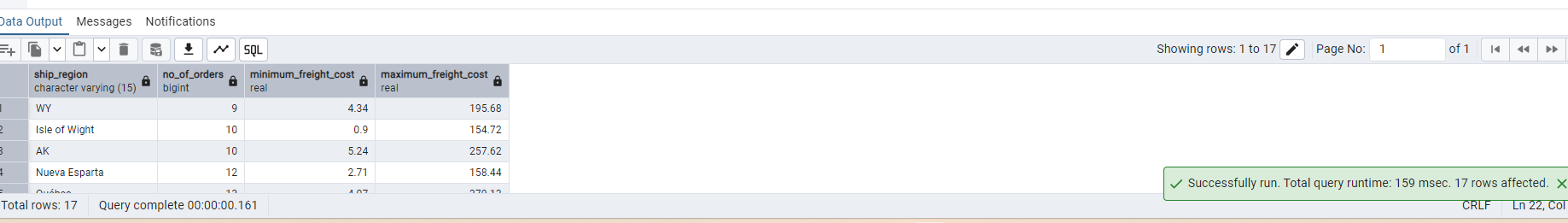
select ship\_region,count(\*) as no\_of\_orders,min(freight) as minimum\_freight\_cost,max(freight) as maximum\_freight\_cost

from orders

group by ship\_region

having count(\*)>=5

order by count(\*) ;



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

SELECT title FROM employees

UNION

SELECT contact\_title FROM customers;

SELECT title FROM employees

UNION ALL

SELECT contact\_title FROM customers;

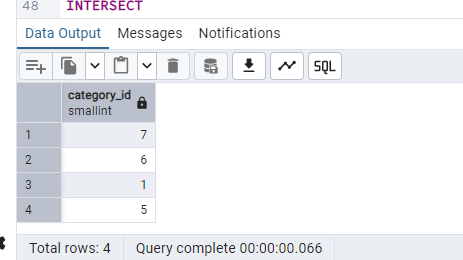
4. Find categories that have both discontinued and in-stock products

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

SELECT CATEGORY\_ID FROM CATEGORIES

INTERSECT

SELECT CATEGORY\_ID FROM PRODUCTS WHERE DISCONTINUED=1 AND UNITS\_IN\_STOCK>0;



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

SELECT \* FROM PRODUCTS;

SELECT DISTINCT(category\_id) FROM products

WHERE units\_in\_stock > 0

INTERSECT

SELECT DISTINCT(category\_id) FROM products

WHERE discontinued = 1

ORDER BY category\_id;

SELECT DISTINCT(order\_id) FROM order\_details

EXCEPT

SELECT DISTINCT(order\_id) FROM order\_details

WHERE discount > 0;

