**DAY 4 Assignment**

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\_cost

FROM

orders

WHERE

freight > 100

GROUP BY

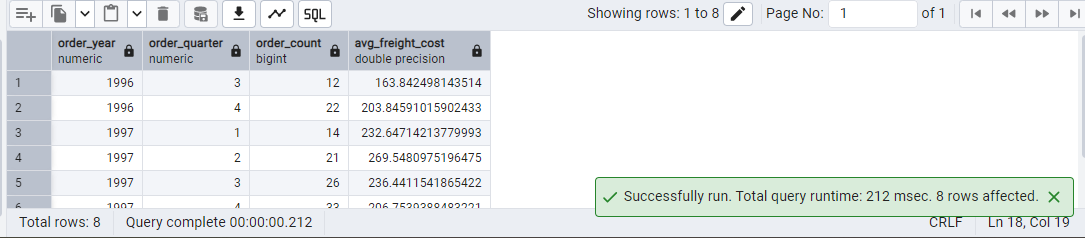
EXTRACT(YEAR FROM order\_date),

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 order\_count,

MIN(freight) AS min\_freight,

MAX(freight) AS max\_freight

FROM

orders

WHERE

ship\_region IS NOT NULL

GROUP BY

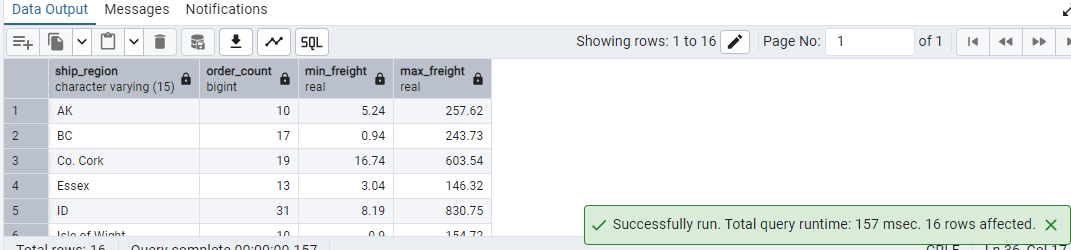
ship\_region

HAVING

COUNT(\*) >= 5

ORDER BY

ship\_region;

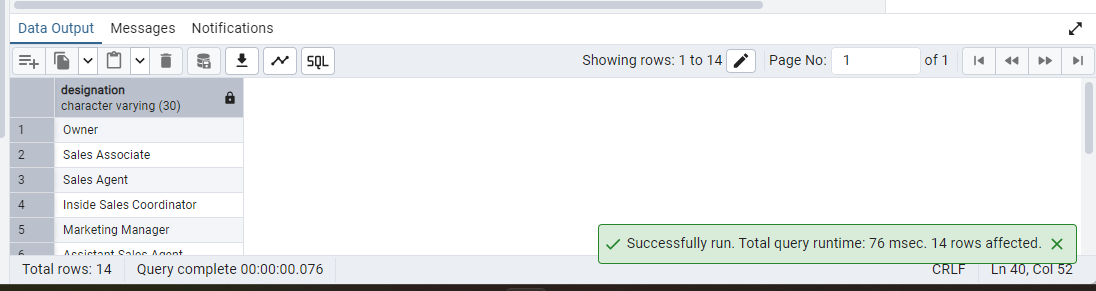


3. Get all title designations across employees and customers ( Try UNION & UNION ALL)

SELECT title AS designation FROM employees

UNION

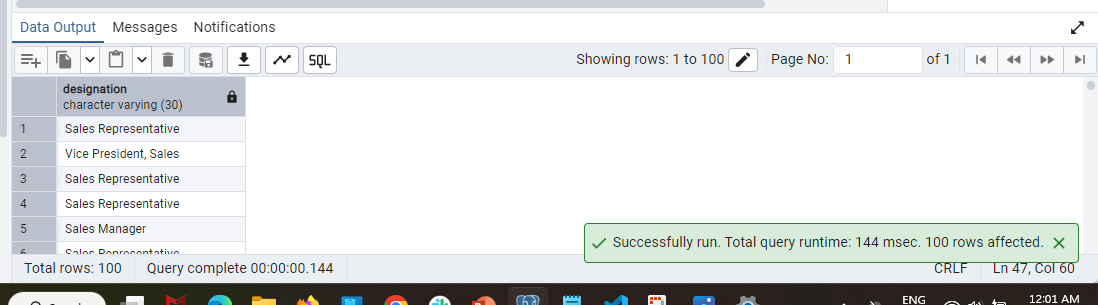
SELECT contact\_title AS designation FROM customers;



SELECT title AS designation FROM employees

UNION ALL

SELECT contact\_title AS 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

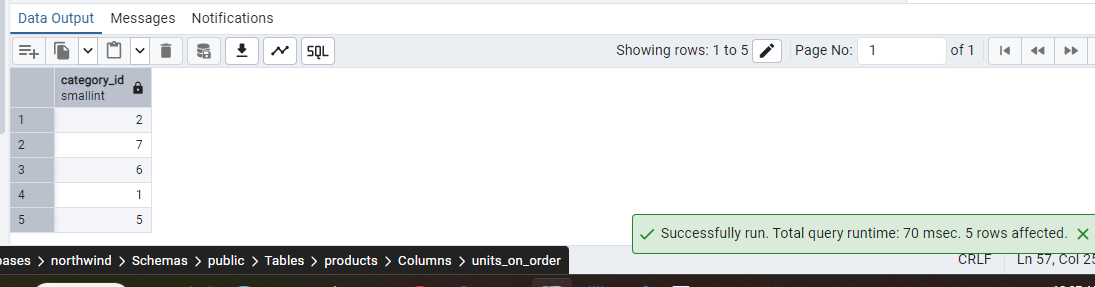
INTERSECT

-- Categories with discontinued products

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 orders EXCEPT

SELECT order\_id

FROM order\_details

WHERE discount > 0

