--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*--

-- 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

EXTRACT(YEAR FROM order\_date) AS order\_year,

EXTRACT(QUARTER FROM order\_date) AS order\_quarter,

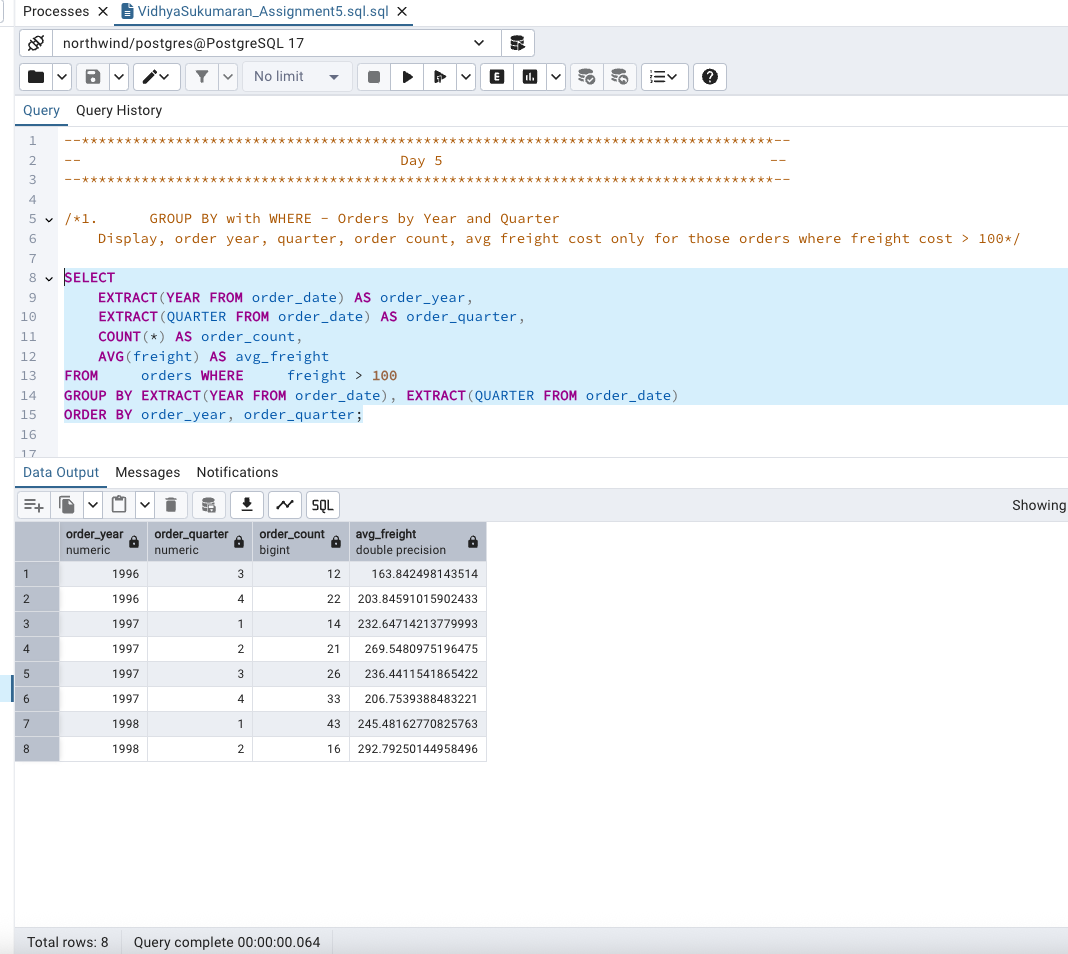
COUNT(\*) AS order\_count,

AVG(freight) AS avg\_freight

FROM orders WHERE freight > 100

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

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 num\_orders,

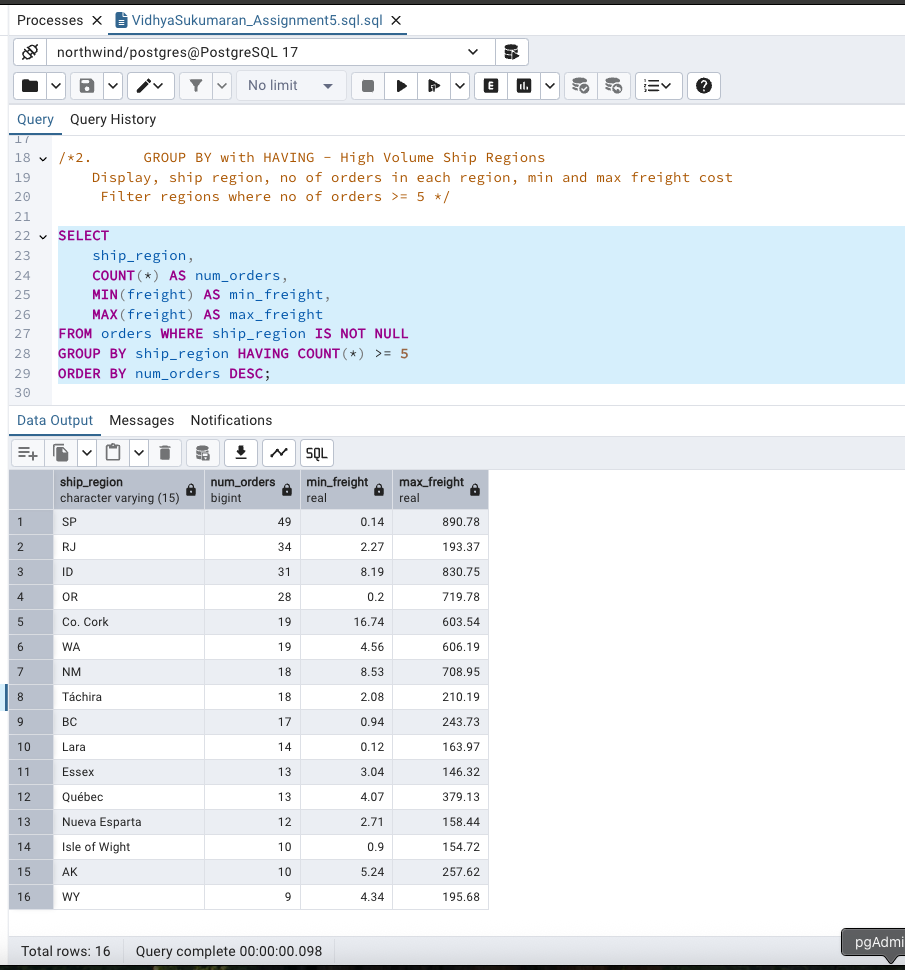
MIN(freight) AS min\_freight,

MAX(freight) AS max\_freight

FROM orders WHERE ship\_region IS NOT NULL

GROUP BY ship\_region HAVING COUNT(\*) >= 5

ORDER BY num\_orders DESC;



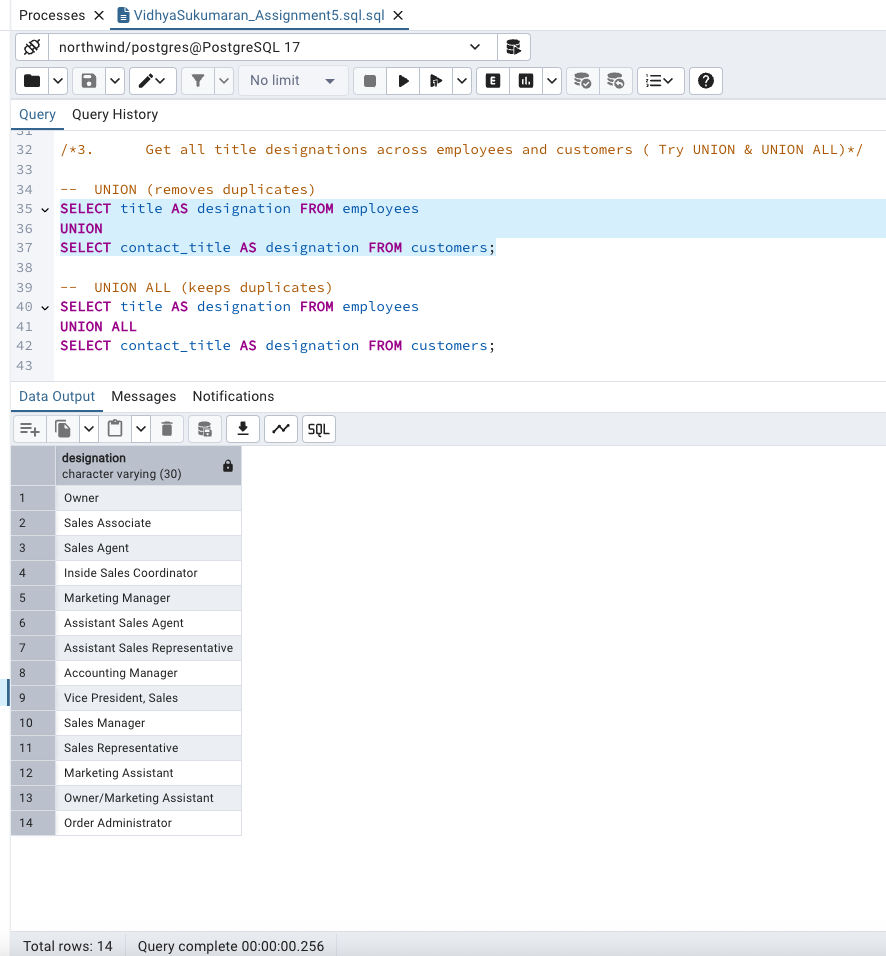
/\*3. Get all title designations across employees and customers ( Try UNION & UNION ALL)\*/

-- UNION (removes duplicates)

SELECT title AS designation FROM employees

UNION

SELECT contact\_title AS designation FROM customers;

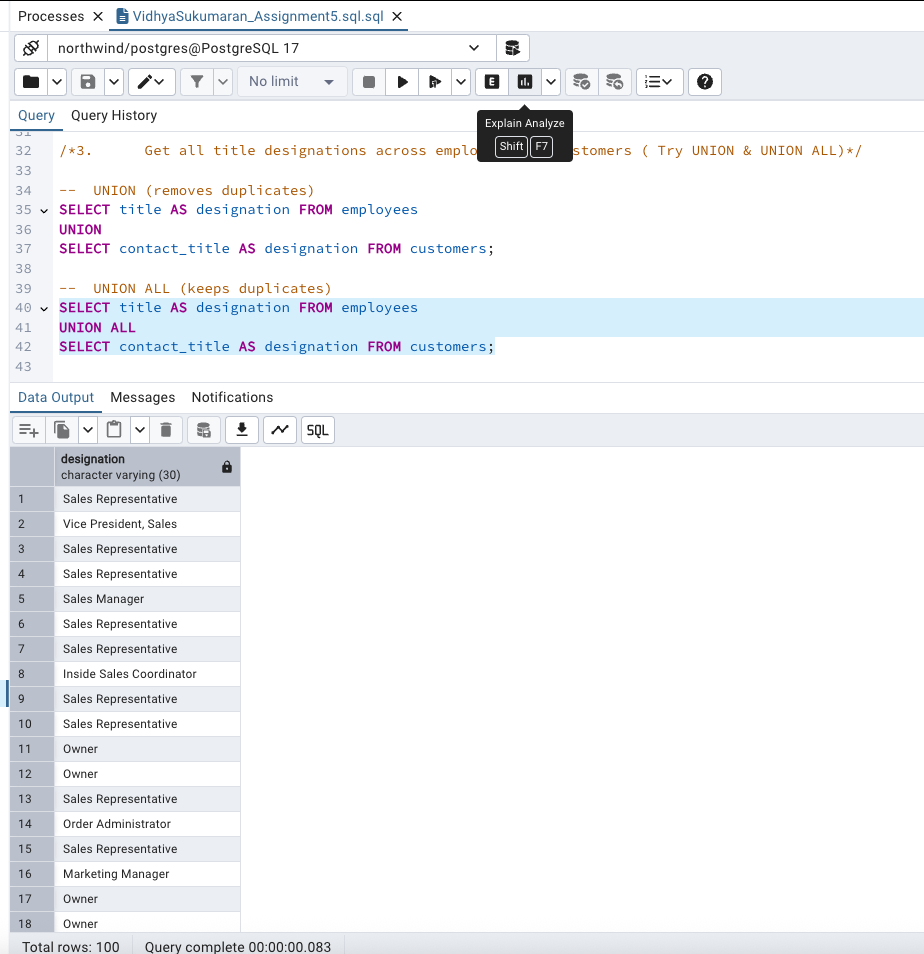


-- UNION ALL (keeps duplicates)

SELECT title AS designation FROM employees

UNION ALL

SELECT contact\_title AS designation FROM customers;



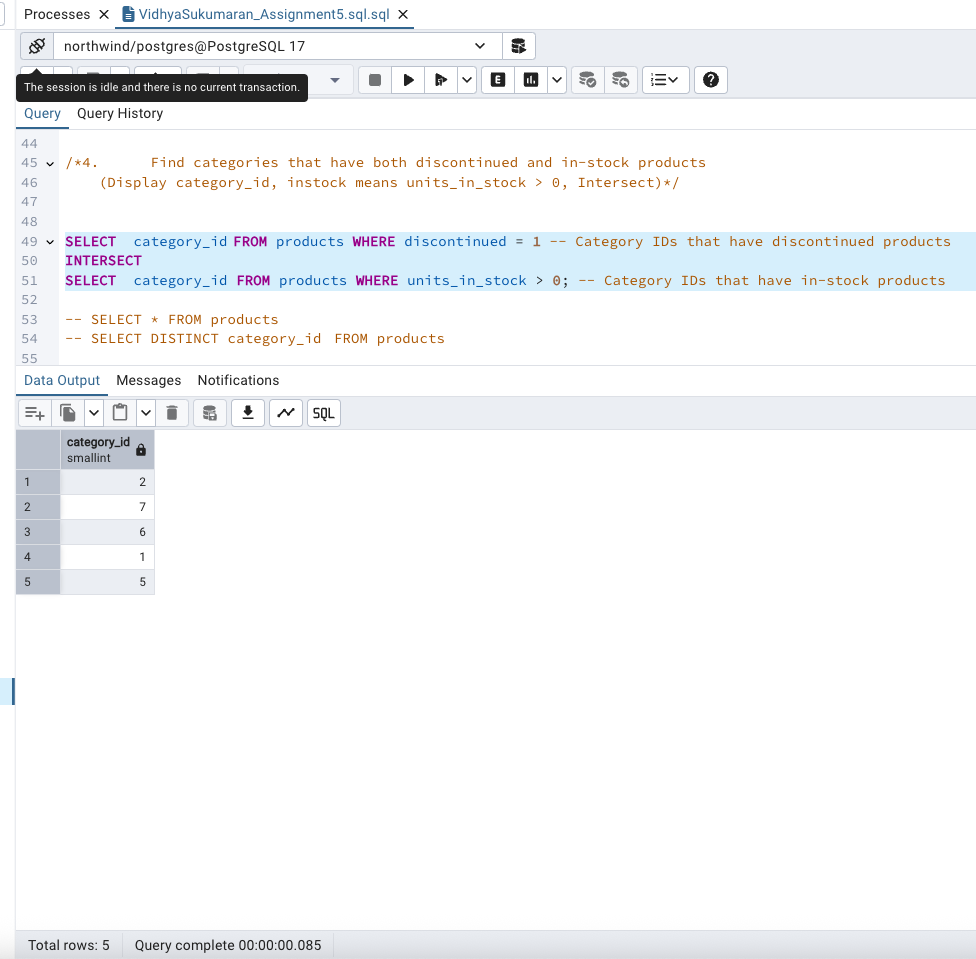
/\*4. Find categories that have both discontinued and in-stock products

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

SELECT category\_id FROM products WHERE discontinued = 1 -- Category IDs that have discontinued products

INTERSECT

SELECT category\_id FROM products WHERE units\_in\_stock > 0; -- Category IDs that have in-stock products



-- SELECT \* FROM products

-- SELECT DISTINCT category\_id FROM products

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

SELECT DISTINCT order\_id FROM orders -- All orders

EXCEPT

SELECT DISTINCT order\_id FROM order\_details WHERE discount > 0;-- Orders with any discounted items

