**DAY 5 SQL 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(order\_id) AS order\_count,

AVG(freight) AS avg\_freight

FROM

orders

WHERE

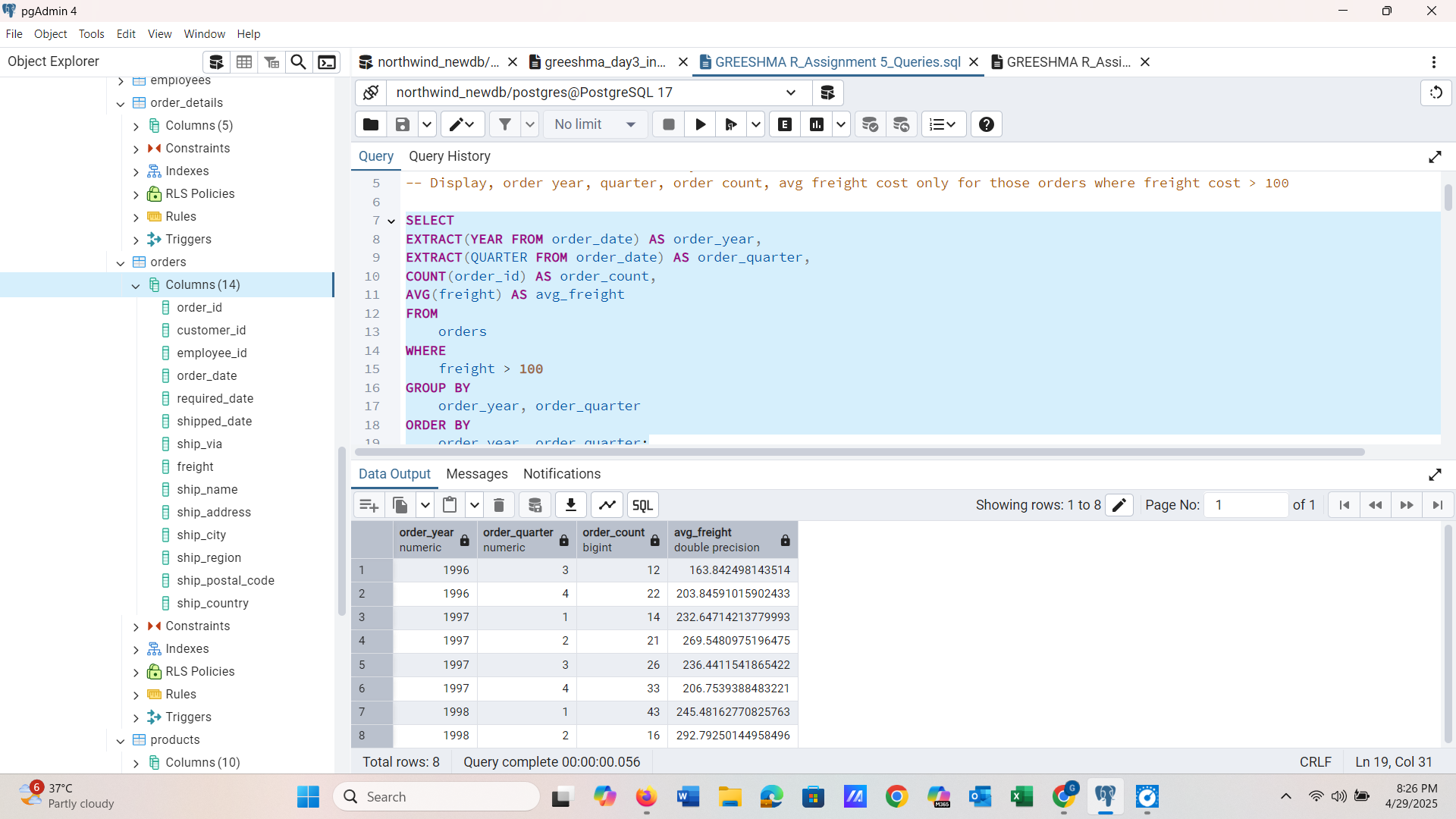
freight > 100

GROUP BY

order\_year, order\_quarter

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(order\_id) AS no\_of\_orders,

MIN(freight) AS min\_freight,

MAX(freight) AS max\_freight

FROM

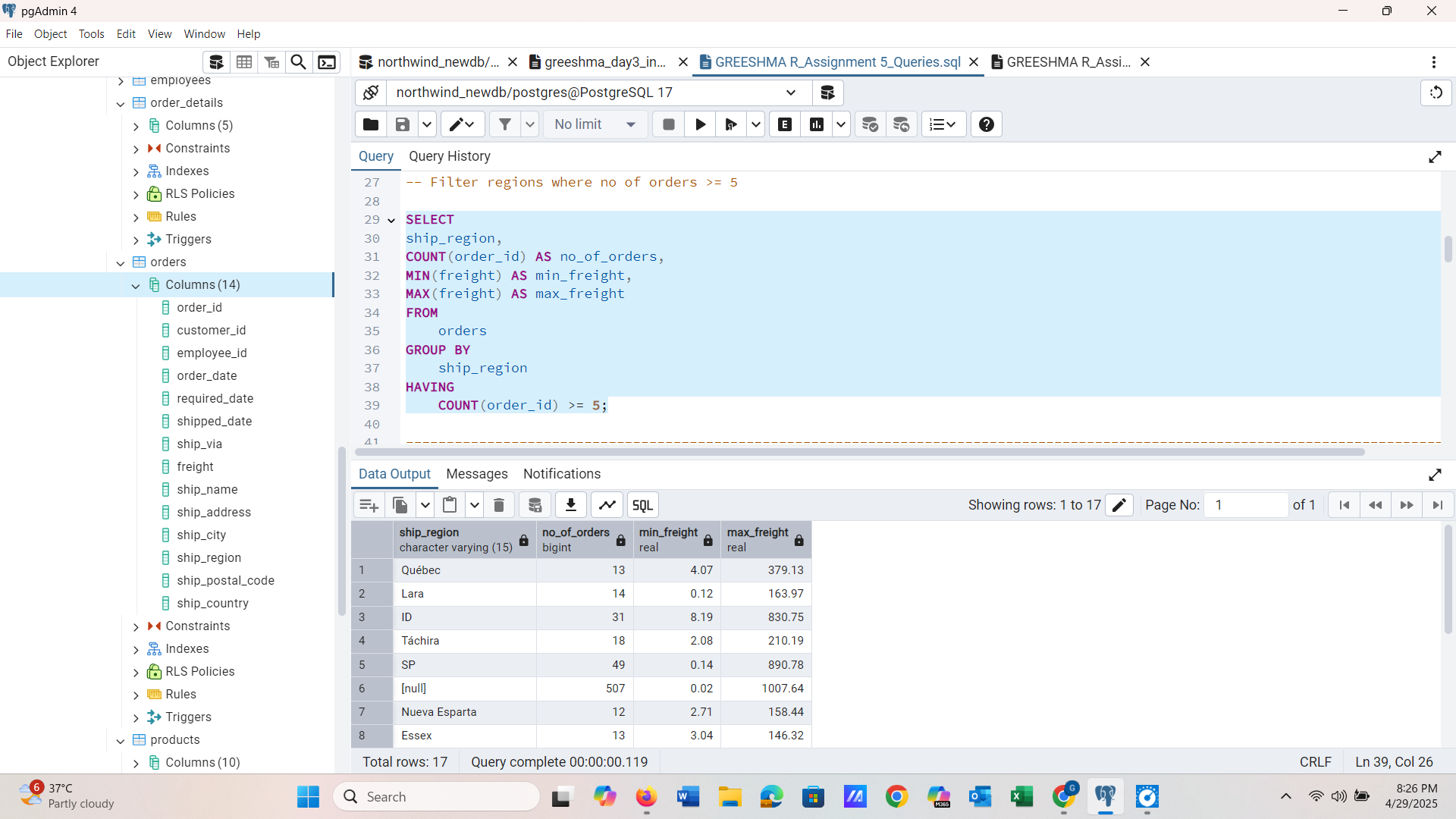
orders

GROUP BY

ship\_region

HAVING

COUNT(order\_id) >= 5;



-------------------------------------------------------------------------------------------------------------------------------

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

-- *Using Union (removes duplicates)*

SELECT

title

FROM

employees

UNION

SELECT

contact\_title

FROM

customers;

*--Union all (keeps duplicates)*

SELECT

title

FROM

employees

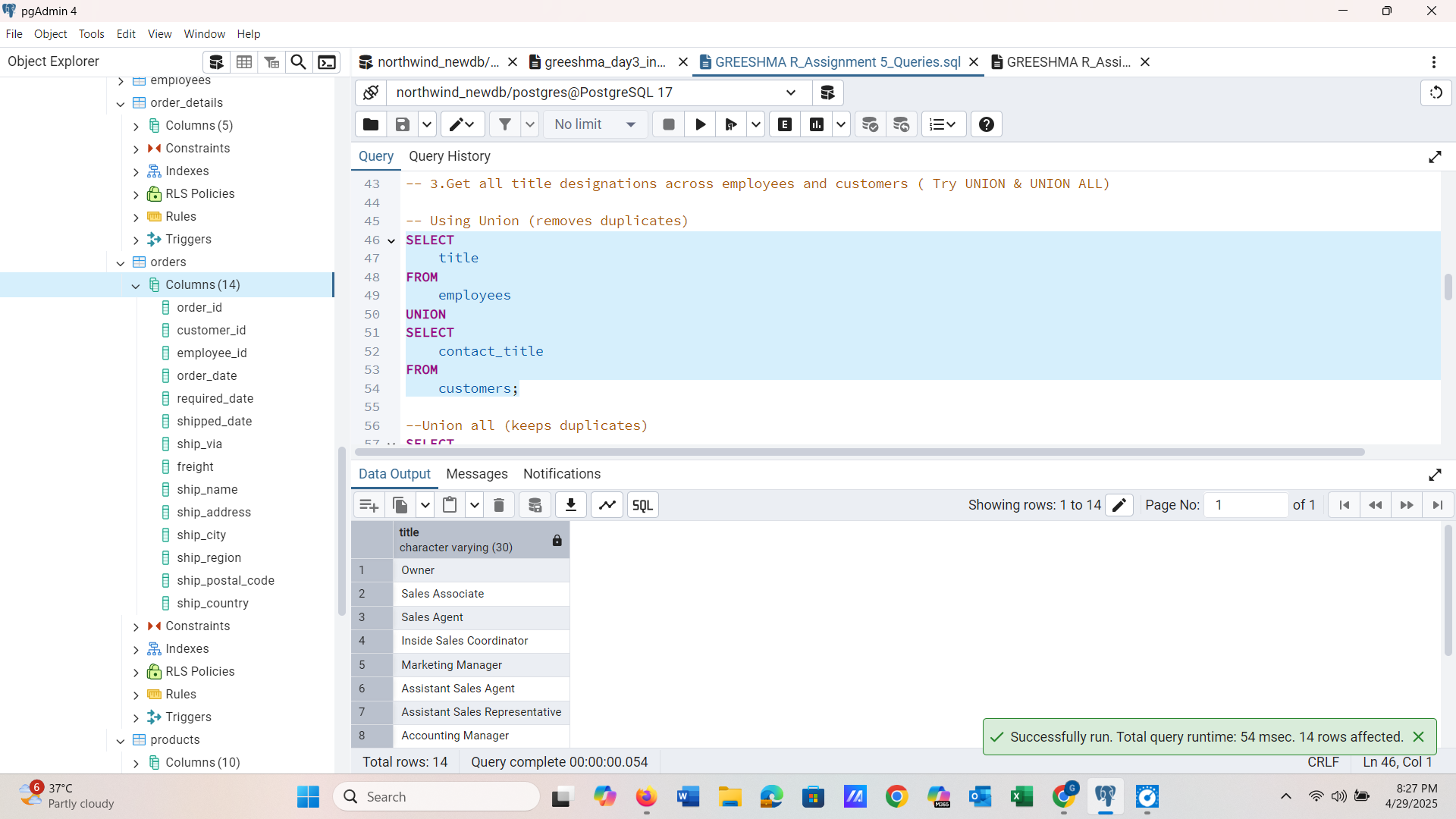
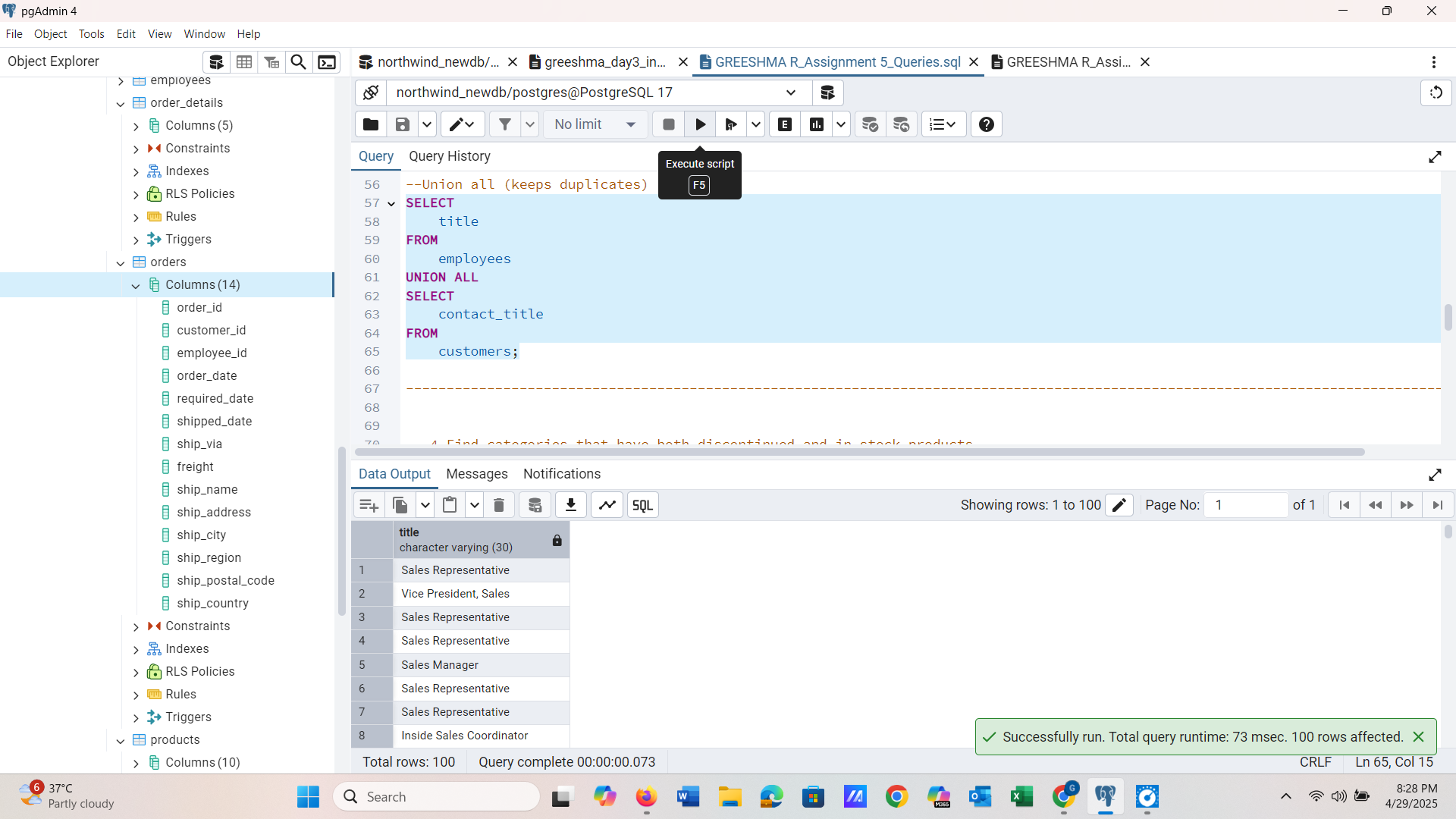
UNION ALL

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)

*–Categories with discontinued products*

SELECT

category\_id

FROM

products

WHERE

discontinued = 1

INTERSECT

*-- Categories with in-stock products*

SELECT

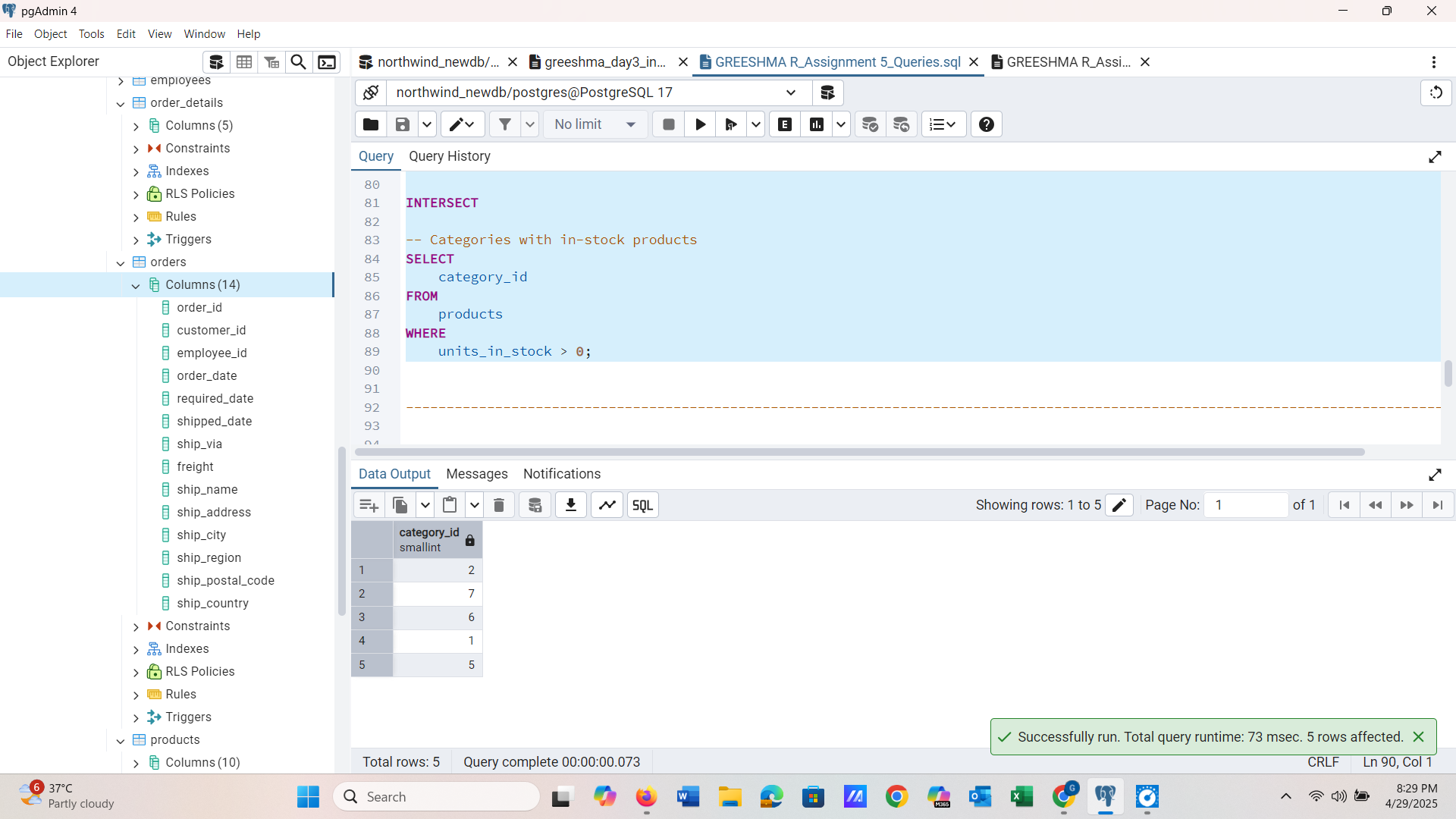
category\_id

FROM

products

WHERE

units\_in\_stock > 0;



-------------------------------------------------------------------------------------------------------------------------------

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

*-- All orders*

SELECT

order\_id

FROM

order\_details

EXCEPT

*-- Orders that include at least one discounted item*

SELECT

order\_id

FROM

order\_details

WHERE

discount > 0;

