**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(order\_id) AS order\_count,AVG(freight) AS Average\_freight**

**FROM orders**

**WHERE freight>100**

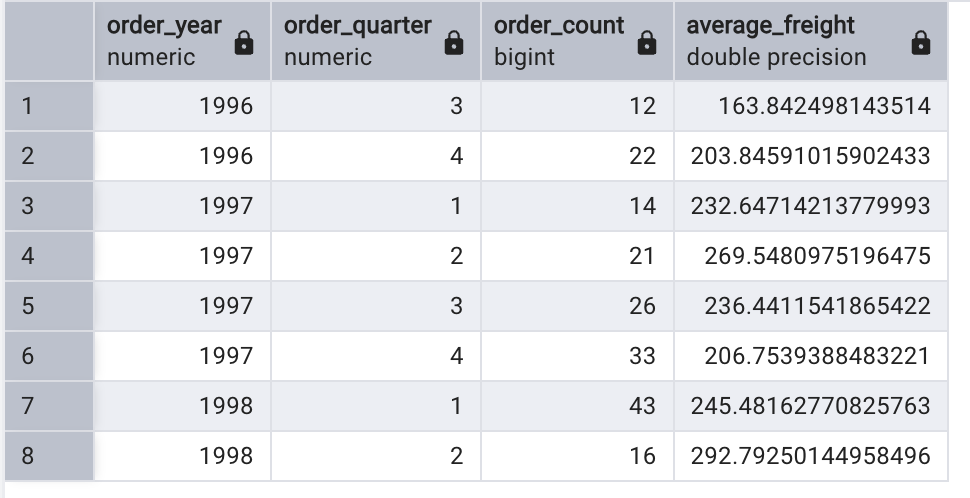
**GROUP BY**

**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

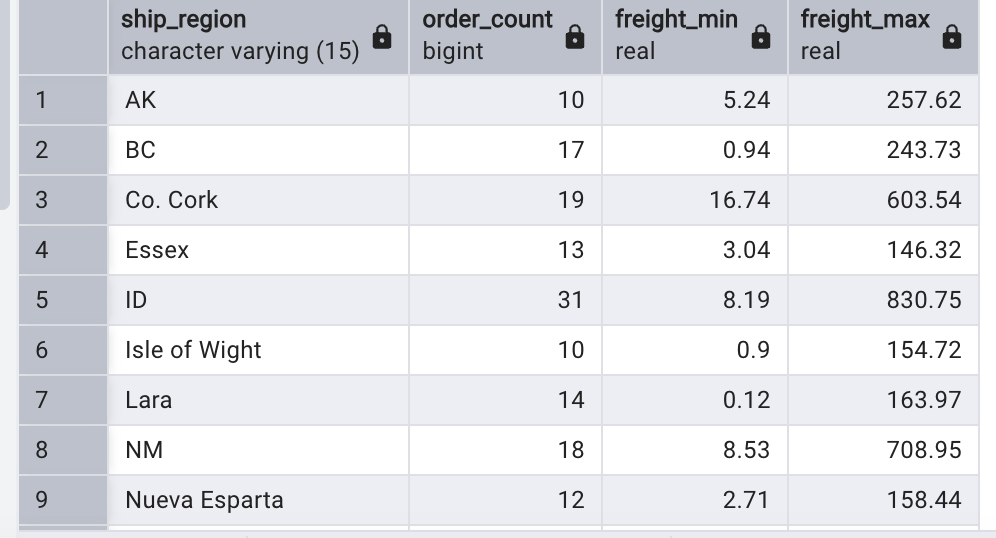
**SELECT \* FROM orders**

**SELECT ship\_region,COUNT(order\_id) AS order\_count,MIN(freight) AS Freight\_min, MAX(freight) AS Freight\_max**

**FROM orders**

**GROUP BY ship\_region**

**HAVING COUNT(order\_id)>=5**

**ORDER BY ship\_region**

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

**SELECT contact\_title AS designation FROM customers**

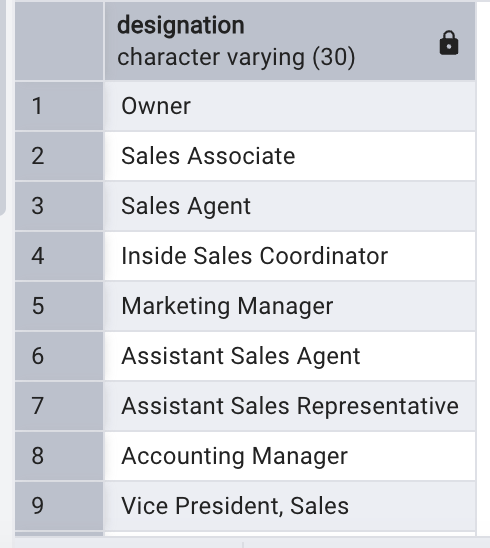
**UNION**

**SELECT title AS designation FROM employees;**

**SELECT contact\_title AS designation FROM customers**

**UNION ALL**

**SELECT title AS designation FROM employees;**

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

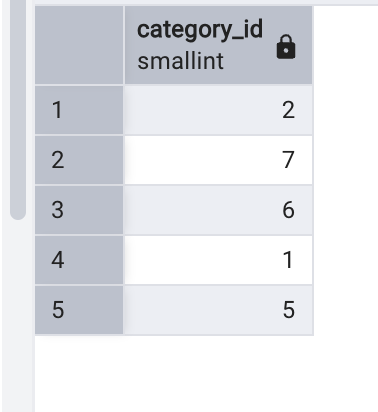
(Display category\_id, instock means units\_in\_stock > 0, Intersect)

**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 \* FROM order\_details**

**SELECT order\_id FROM order\_details**

**EXCEPT**

**SELECT DISTINCT order\_id FROM order\_details**

**WHERE discount>0**