DAY 4 SQL Assignment

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1.	GROUP BY with WHERE - Orders by Year and Quarter	1
2.	GROUP BY with HAVING - High Volume Ship Regions	2
3.	Get all title designations across employees and customers (Try UNION & UNION ALL)	3
4.	Find categories that have both discontinued and in-stock products	5
5.	Find orders that have no discounted items (Display the order_id, EXCEPT)	e

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

QUERY:

SELECT

EXTRACT(YEAR FROM ORDER_DATE) AS ORDER_YEAR,

EXTRACT(QUARTER FROM ORDER_DATE) AS QUARTER,

COUNT(*) AS ORDERCOUNT,

AVG(FREIGHT) AS FREIGHT

FROM ORDERS

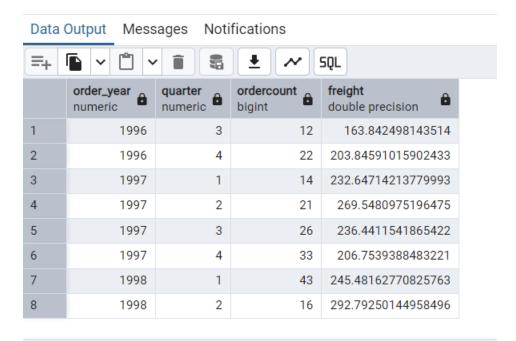
WHERE FREIGHT > 100

GROUP BY EXTRACT(YEAR FROM ORDER_DATE),

EXTRACT(QUARTER FROM ORDER_DATE)

ORDER BY

ORDER_YEAR, QUARTER;



Total rows: 8 Query complete 00:00:00.922

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

QUERY:

SELECT

SHIP_REGION,

COUNT(ORDER_ID) AS ORDER_COUNT,

MIN(FREIGHT) AS MIN_FREIGHT,

MAX(FREIGHT) AS MAX_FREIGHT

FROM ORDERS

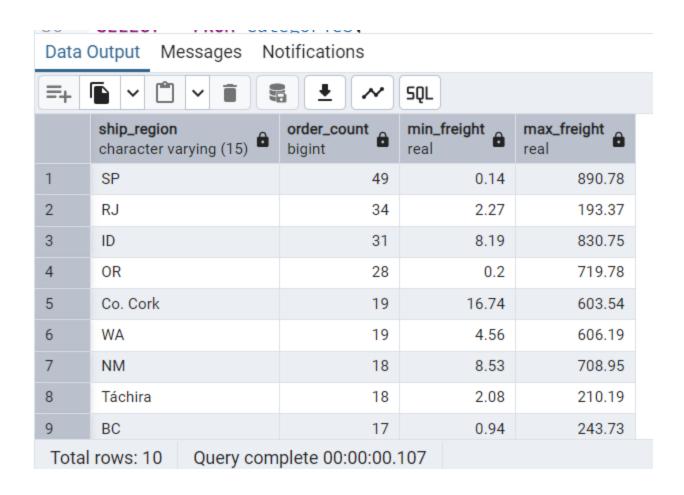
GROUP BY SHIP_REGION

HAVING

COUNT(ORDER_ID) >= 5 AND SHIP_REGION IS NOT NULL

ORDER BY ORDER_COUNT DESC

LIMIT 10;



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

QUERY:

SELECT TITLE AS DESIGNATION

FROM EMPLOYEES

UNION

SELECT CONTACT_TITLE AS DESIGNATION

FROM CUSTOMERS;

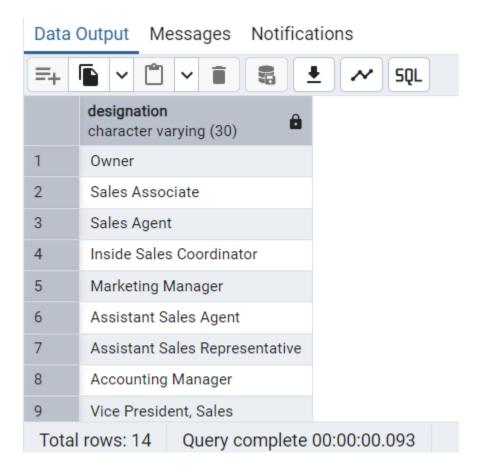
SELECT TITLE AS DESIGNATION

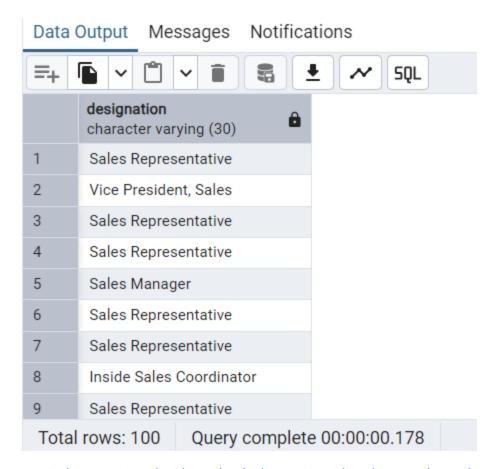
FROM EMPLOYEES

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)

QUERY:

SELECT category_id

FROM products

WHERE units_in_stock > 0

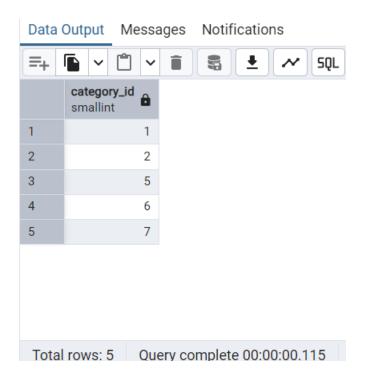
INTERSECT

SELECT category_id

FROM products

WHERE discontinued = 1

ORDER BY category_id



5. Find orders that have no discounted items (Display the order_id, EXCEPT)

QUERY:

SELECT order_id

FROM order_details

EXCEPT

SELECT order_id

FROM order_details

WHERE discount != 0

ORDER BY order_id;

