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-1:**

select \* from orders

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;

**OUPUT:1**

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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:2**

select \* from orders

SELECT

ship\_region,

COUNT(\*) AS order\_id,

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 order\_id;

**OUTPUT:2**

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

**QUERY:3**

select \* from employees

select \* from customers

-- **UNION**

SELECT title AS Designation

FROM employees

UNION

SELECT contact\_title AS Designation

FROM customers;

**OUTPUT FOR UNION**

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**-- UNION ALL**

SELECT title AS Designation

FROM employees

UNION ALL

SELECT contact\_title AS Designation

FROM customers;

**OUTPUT FOR UNION ALL**

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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)**

**QUERY:4**

select \* from categories

select \* from products

SELECT category\_id, units\_in\_stock

FROM products

WHERE units\_in\_stock > 0

INTERSECT

-- Products from categories that have discontinued products

SELECT category\_id, units\_in\_stock

FROM products

WHERE category\_id IN (

SELECT category\_id

FROM products

WHERE discontinued = 1

);

OUTPUT:4

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

**QUERY:5**

SELECT order\_id

FROM order\_details

EXCEPT

-- Orders that have at least one discounted item

SELECT order\_id

FROM order\_details

WHERE discount = 1;

select \* from order\_details

OUTPUT:5

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