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 freightcost

from orders

where freight>100

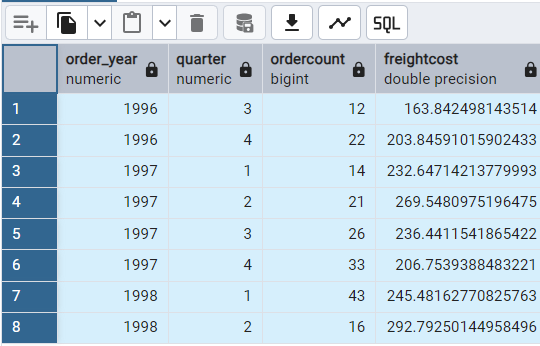
group by extract(year from order\_date),

extract(quarter from order\_date)

order by

Order\_year,quarter;

Output



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 \* from shippers;

select \* from region;

select

ship\_region,

count(\*) as number\_of\_orders,

min(freight)as min\_freight,

max(freight)as max\_freight,

round(sum(freight)::numeric,2)as total\_frieght

from orders

group by

ship\_region

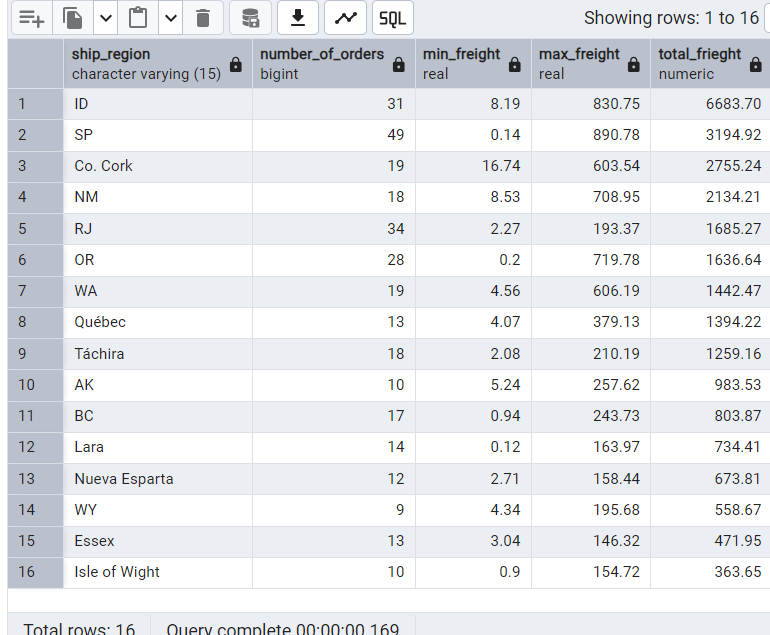
having

count(\*)>=5 and ship\_region is not null

order by

total\_frieght desc;

Output:



3./\*Get all title designations across employees and customers

( Try UNION & UNION ALL)\*/

Query:

select \* from employees;

select \* from customers;

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;

Output:



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

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

Query:

select \* from products;

select

category\_id

from products

where units\_in\_stock>0

intersect

select

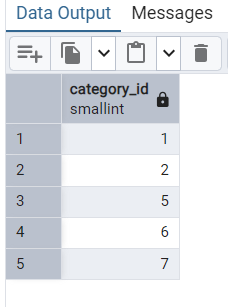
category\_id

from products

where discontinued=1

order by category\_id

Output:



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

Query:

select order\_id,discount

from order\_details

except

select order\_id,discount

from order\_details

where discount!=0

Output:

