DAY 5 Assignment

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(*) as order_count,

round(cast(avg(freight) as numeric), 2) as average_freight_cost

from

orders

where

freight > 100

group by

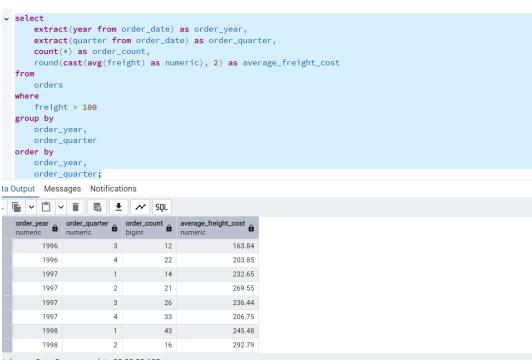
order_year,

order_quarter

order by

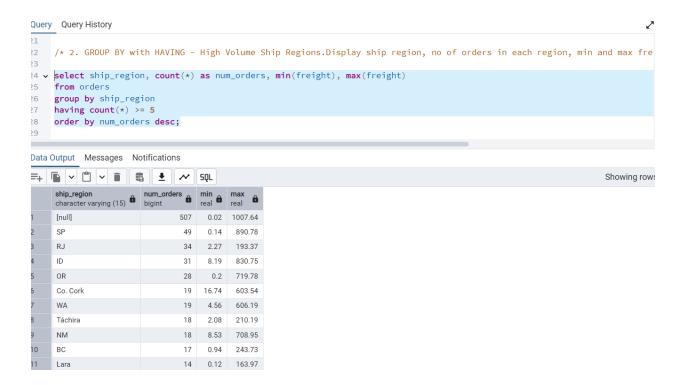
order_year,

order_quarter;
```



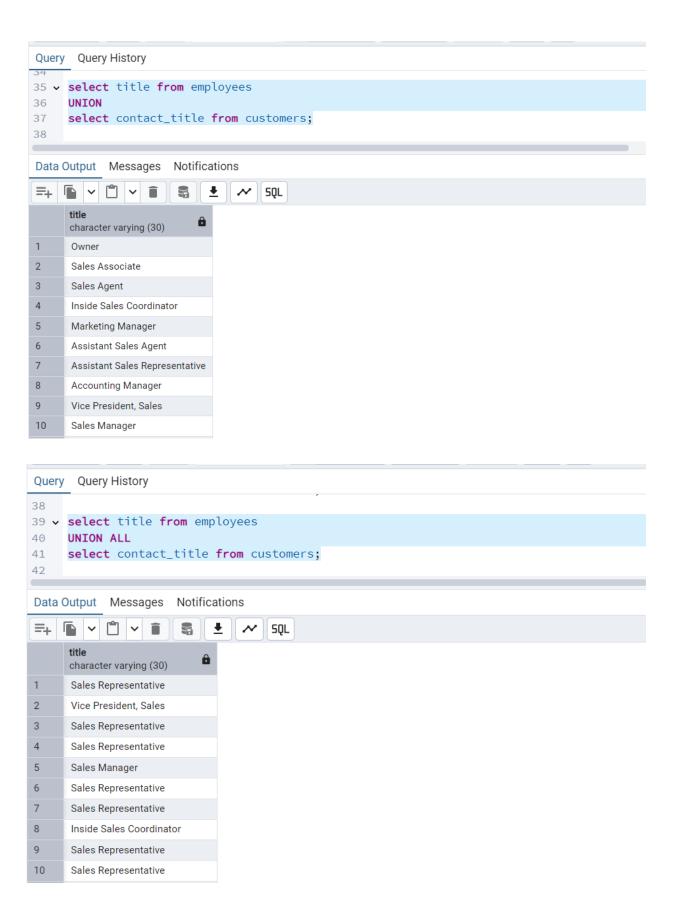
GROUP BY with HAVING - High Volume Ship Regions Display, ship region, no of orders in each region, min and max freight cost Filter regions where no of orders >= 5

```
select ship_region, count(*) as num_orders, min(freight), max(freight)
from orders
group by ship_region
having count(*) >= 5
order by num_orders desc;
```



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

```
select title from employees
UNION
select contact_title from customers;
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)

select category_id, units_in_stock as instock

from products

where units_in_stock >0

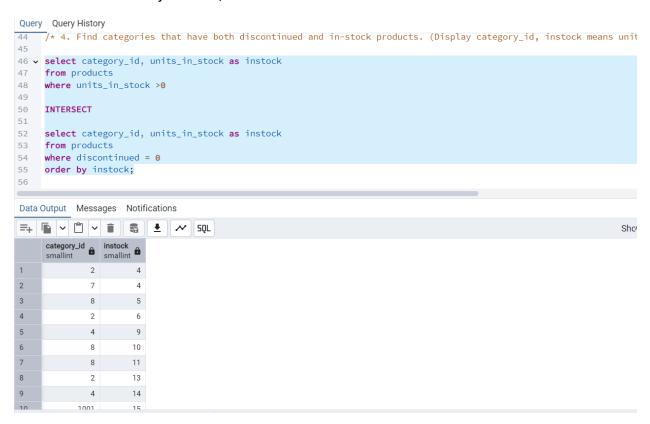
INTERSECT

select category_id, units_in_stock as instock

from products

where discontinued = 0

order by instock;



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

```
select order_id
           from orders
           Except
           select distinct order_id
           from order_details
           where discount = 1;
60 v select order_id
     from orders
61
     Except
62
     select distinct order_id
63
     from order_details
64
     where discount = 1;
65
66
67
Data Output Messages Notifications
=+
                                        SQL
     order_id
smallint a
1
         11038
2
         10782
3
         10725
4
         10423
5
         10518
6
         10356
```