



# PostgreSQL Presentation

By Ezenwere Chigozie Augustine



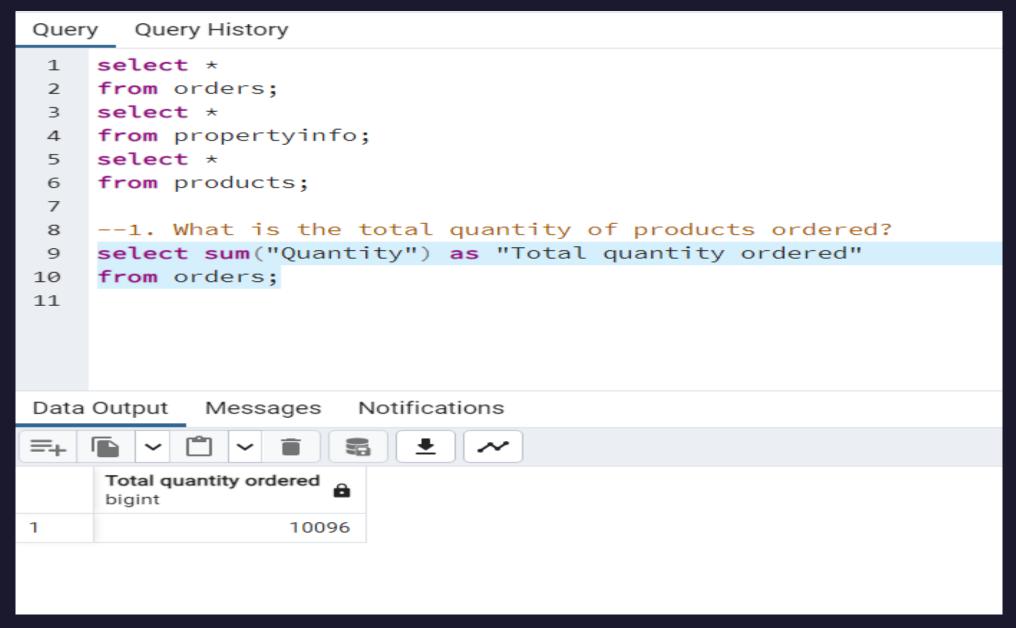
# Queries

- I. What is the total quantity of products ordered?
- 2. What is the average price of products in each category?
- 3. Which product is the most ordered in each city?
- 4. Query to find the total quantity of each product ordered, only for properties in New York.
- 5. Which product has the highest price?
- 6. What is the total revenue generated from properties in each state?
- 7. Query to find the property that has ordered the most quantity of products.
- 8. Query to find the total revenue generated for each product category.
- 9. Query to find the city that has the highest number of orders.
- 10. Query to find the total quantity of products ordered in the year 2015.





I. What is the total quantity of products ordered?



## 2. What is the average price of products in each category?

--2. What is the average price of products in each category?
select "ProductCategory", round(avg("Price"),1) as "Average price"
from products
group by "ProductCategory";

Output Messages Notifications



ProductCategory character	â	Average price numeric
Public Areas		58.6
Furnishings		83.7
Housekeeping		23.0
Maintenance		55.0
Office Supplies		22.7

#### 3. Which product is the most ordered in each city?

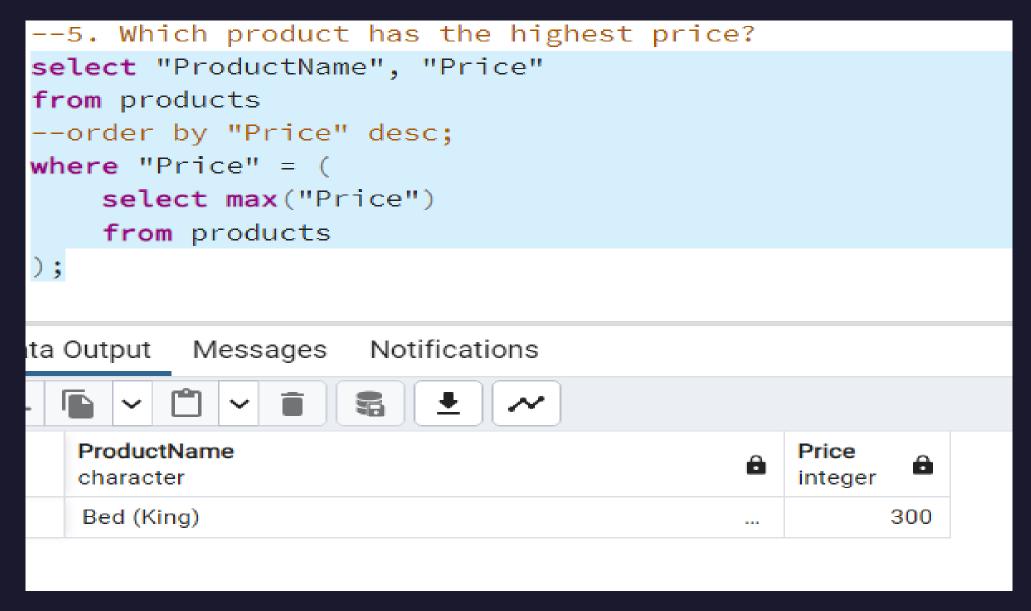
```
--3. Which product is the most ordered in each city?
     select o."PropertyID", p."PropertyCity", prod."ProductName", sum(o."Quantity") as "Total quantity ordered"
     from orders o
    join propertyinfo p on o."PropertyID" = p."PropID"
     join products prod on o."ProductID" = prod."ProductID"
     group by o."PropertyID", p."PropertyCity", prod."ProductName"
     order by "Total quantity ordered" desc;
24
  Data Output
               Messages
                         Notifications
                         5
                              <u>+</u>
                                                                                                                 Total quantity ordered
                                                                  ProductName
                    PropertyCity
                                                                  character
        integer
                    character
                 4 Seattle
                                                                  Monitor
                                                                                                                                  20
                12 Dallas
  2
                                                               ... Light Bulb
                                                                                                                                  17
  3
                 3 Portland
                                                                  Portable Drill
                                                                                                                                  17
                14 Nashville
                                                                  Screws
                                                                                                                                  17
                 4 Seattle
                                                                  Invisible Tape
                                                                                                                                  17
                14 Nashville
                                                                  Computer Desk
  6
                                                                                                                                  16
                 8 Philadelphia
                                                                  Luggage Cart
                                                                                                                                  16
                 2 Cincinnati
                                                               ... Large Plant
  8
                                                                                                                                  16
Total rows: 1000 of 1733
                         Query complete 00:00:00.057
```

Saturday, October 7, 2023 Sample Footer Text

4. Query to find the total quantity of each product ordered, only for properties in New York.

4. Query to find the total quantity of each product ordered, only for properties in New York.						
<pre>SELECT prod."ProductName", SUM(o."Quantity") as "Total Quantity Ordered" FROM orders o JOIN propertyinfo p ON o."PropertyID" = p."PropID" JOIN products prod ON o."ProductID" = prod."ProductID"</pre>						
WHERE p."PropertyState" = 'New York'						
GROUP BY prod."ProductName";						
ata Output Messages Notifications						
ProductName character	Total Quantity Ordered bigint					
Wireless Router	8					
Mirror	4					
Side Table	9					
Ladder	2					
Gaffer's Tape	6					
Chest of Drawers	4					
Mouthwash	5					
Door Lock	3					

5. Which product has the highest price?

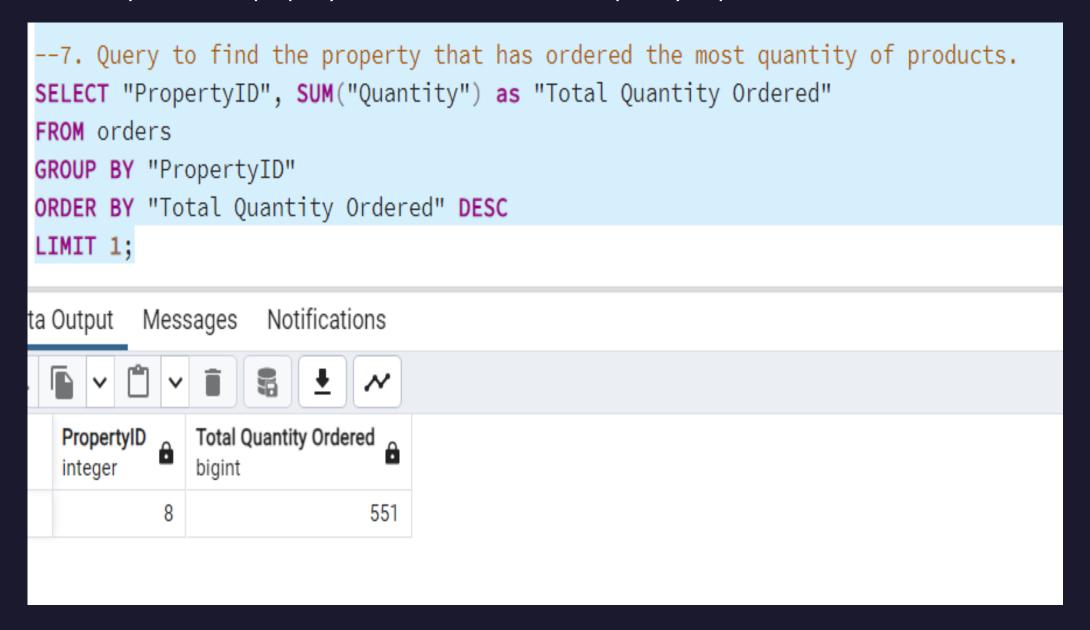


#### 6. What is the total revenue generated from properties in each state?

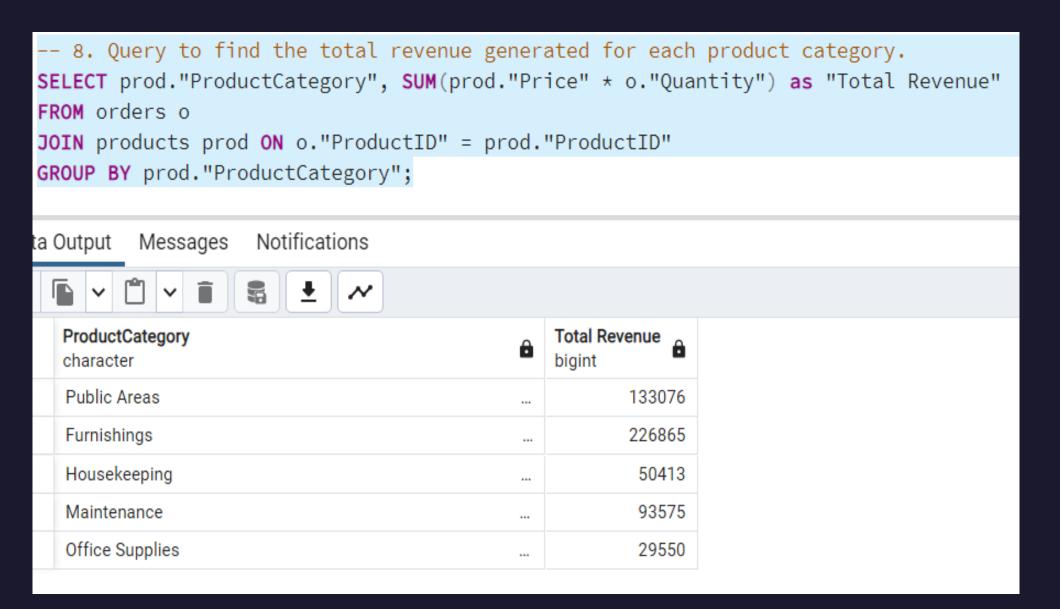
```
--6. What is the total revenue generated from properties in each state?
SELECT p. "PropertyState", SUM(prod. "Price" * o. "Quantity") AS "TotalRevenue"
FROM orders o
JOIN propertyInfo p ON o. "PropertyID" = p. "PropID"
JOIN products prod ON o. "ProductID" = prod. "ProductID"
GROUP BY p."PropertyState"
ORDER BY p. "PropertyState";
          Messages Notifications
ita Output
                                                   TotalRevenue 🔓
   PropertyState
   character
                                                   bigint
   Arizona
                                                           25135
   California
                                                           54529
   Colorado
                                                           23515
   Florida
                                                           26445
   Georgia
                                                           25133
   Illinois
                                                           29218
   Louisiana
                                                           27483
   Massachusetts
                                                           27094
```



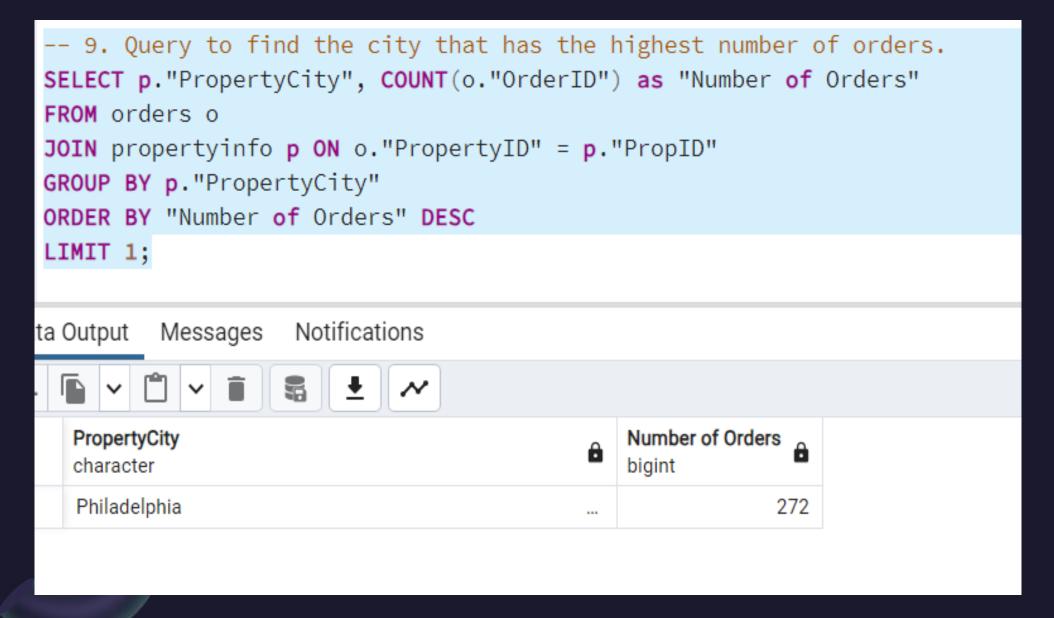
7. Query to find the property that has ordered the most quantity of products.



8. Query to find the total revenue generated for each product category.



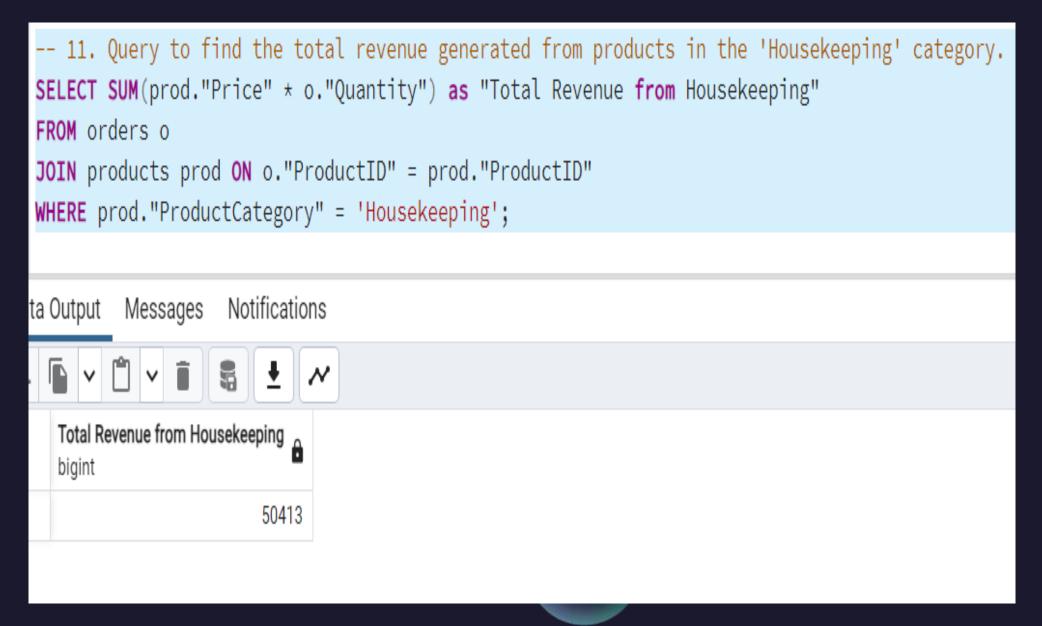
9. Query to find the total revenue generated for each product category.



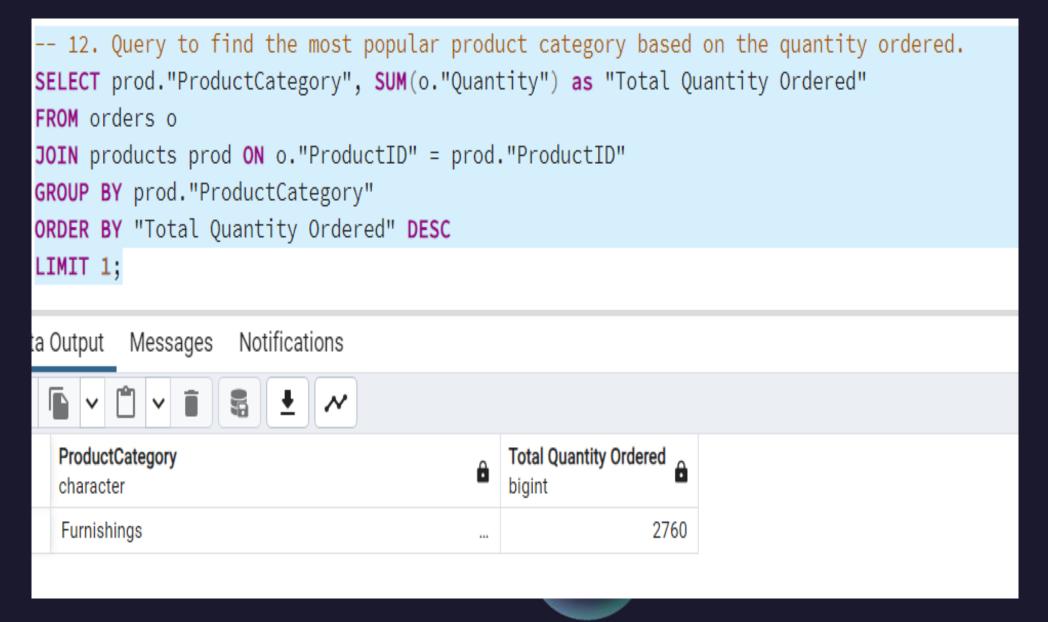
10. Query to find the total quantity of products ordered in the year 2015.



11. Query to find the total revenue generated from products in the 'Housekeeping' category.



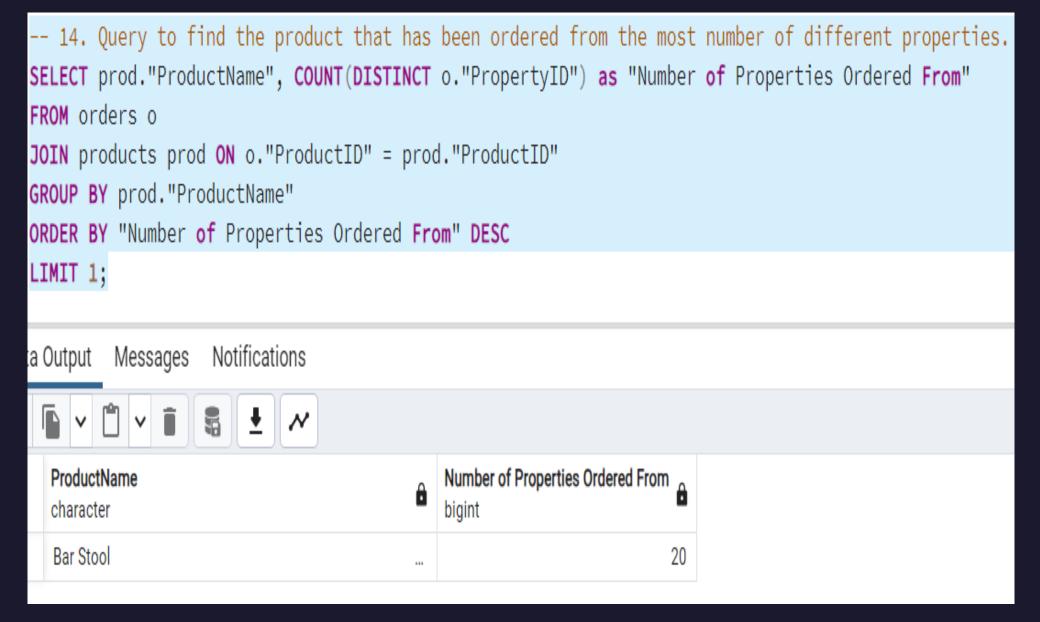
### 12. Query to find the most popular product category based on the quantity ordered.



13. Query to find the average price of products ordered from properties in Oregon.

```
-- 13. Query to find the average price of products ordered from properties in Oregon.
SELECT round(AVG(prod."Price"),2) as "Average Price in Oregon"
FROM orders o
JOIN propertyinfo p ON o. "PropertyID" = p. "PropID"
JOIN products prod ON o."ProductID" = prod."ProductID"
WHERE p."PropertyState" = 'Oregon';
                   Notifications
ta Output
         Messages
  Average Price in Oregon
  numeric
                 51.24
```

14. Query to find the product that has been ordered from the most number of different properties.



#### 15. Query to find the total quantity of each product ordered, for properties in cities that have 'New' in their name.

