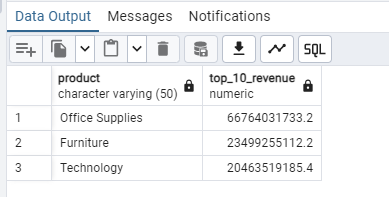
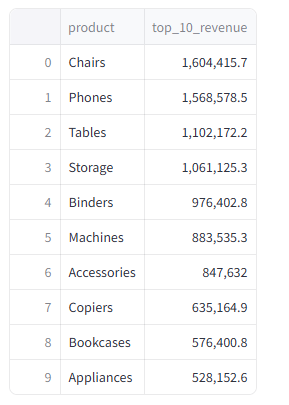
/\* Query1 \*/

/\*\*\*\*\*\*\*Top 10 Revenue products\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

select c.category as product,sum(p.sales\_price \* p.quantity) as Top\_10\_Revenue from order\_Retail1 as c, order\_retail2 as p group by c.category order by Top\_10\_Revenue DESC limit 10;



select c.sub\_category as product,sum(p.sales\_price \* p.quantity) as Top\_10\_Revenue from order\_Retail1 as c, order\_retail2 as p group by c.sub\_category order by Top\_10\_Revenue DESC limit 10;



/\* Query2 \*/

/\*\*\*\*\*\*\*\*Top 5 city with high profit margin\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

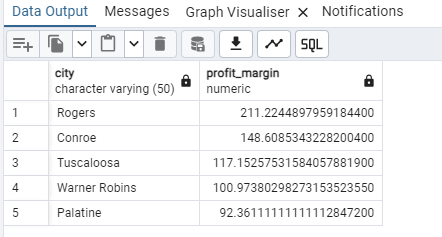
select c.city,

case

when sum(p.sales\_price - p.cost\_price) = 0 then 0

else (sum((p.sales\_price - p.cost\_price)\* p.quantity)/ sum(p.sales\_price\*p.quantity)) \* 100

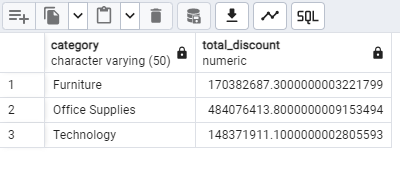
end as profit\_margin from order\_retail1 as c, order\_retail2 as p group by c.city order by profit\_margin desc limit 5;



/\* Query3 \*/

/\*\*\*\*\*\*\***total discount given for each category**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

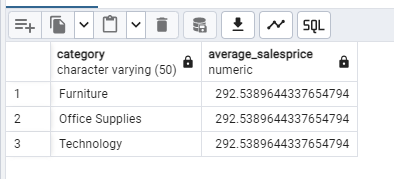
select c.category, sum(p.discount) as total\_discount from order\_retail1 as c, order\_retail2 as p group by c.category;



/\* Query4 \*/

/\*\*\*\*\*\*\*\***average sale price per product category**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

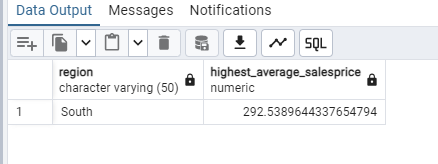
select c.category,(sum(p.sales\_price \* p.quantity)/sum(p.quantity))as Average from order\_retail2 as p, order\_retail1 as c group by c.category;



/\* Query 5 \*/

/\*\*\*\*\*\***region with the highest average sale price**\*\*\*\*\*\*\*\*/

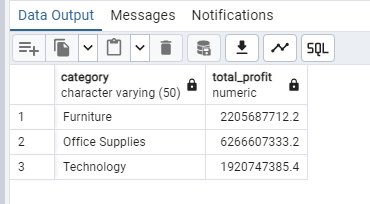
select c.region,(sum(p.sales\_price \* p.quantity)/sum(p.quantity))as highest\_average\_salesprice from order\_retail2 as p, order\_retail1 as c group by c.region order by highest\_average\_Salesprice desc limit 1;



/\* Query 6 \*/

/\*\*\*\*\***total profit per category**\*\*\*\*\*\*\*\*\*\*/

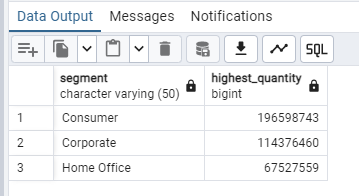
select c.category, sum((p.sales\_price-p.cost\_price)\*p.quantity) as total\_profit from order\_retail2 as p, order\_retail1 as c group by c.category;



/\* Query 7 \*/

/\*\*\*\*\*\***top 3 segments with the highest quantity of orders**\*\*\*\*\*\*\*\*\*\*\*\*\*/

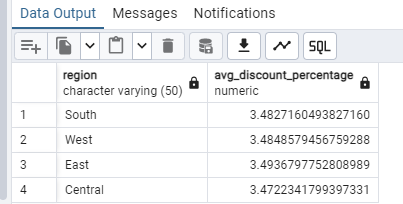
select c.segment, sum(p.quantity) as highest\_quantity from order\_retail2 as p, order\_retail1 as c group by c.segment order by highest\_quantity desc limit 3;



/\* Query 8 \*/

/\*\*\*\*\***average discount percentage given per region**\*\*\*\*\*\*\*\*/

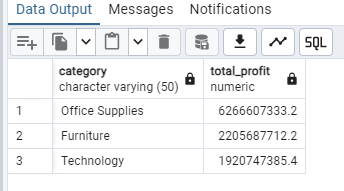
select c.region,avg(p.discount\_percent) as discount\_percentage from order\_retail2 as p, order\_retail1 as c group by c.region;



/\* Query 9 \*/

/\*\*\*\*\***product category with the highest total profit**\*\*\*\*\*\*\*/

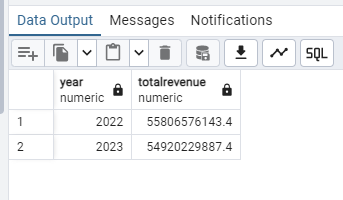
select c.category,sum((p.sales\_price - p.cost\_price)\*p.quantity) as total\_profit from order\_retail2 as p, order\_retail1 as c group by c.category order by total\_profit desc;



/\* Query 10 \*/

/\*\*\*\*\*\***total revenue generated per year**\*\*\*\*\*\*\*/

select extract(Year from c.order\_date) as Year, sum((p.sales\_price)\*p.quantity) as TotalRevenue from order\_retail2 as p, order\_retail1 as c group by extract(Year from c.order\_date) order by Year;

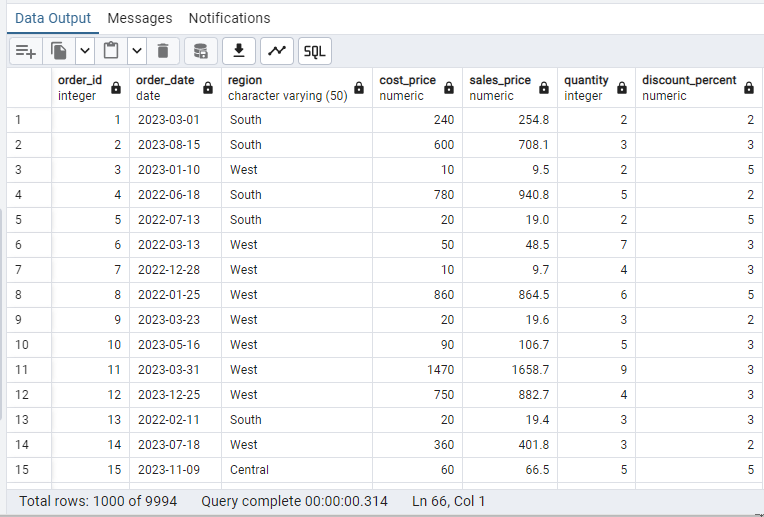


/\* Query 11 \*/

/\*\*\*\*\*Join to Fetch Complete Order Details with order\_id as foreign key\*\*\*\*\*\*\*/

SELECT b.order\_id, b.order\_date, b.Region, f.cost\_price, f.sales\_price, f.quantity, f.discount\_percent

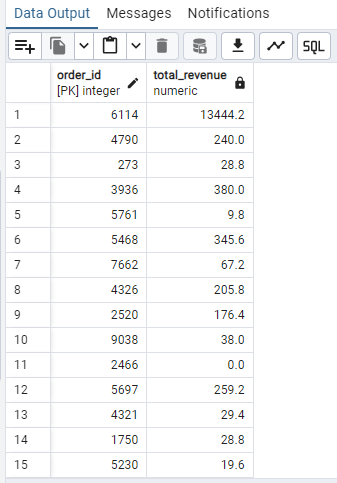
FROM order\_retail1 as b JOIN order\_retail2 as f ON b.order\_id = f.id;



/\* Query12 \*/

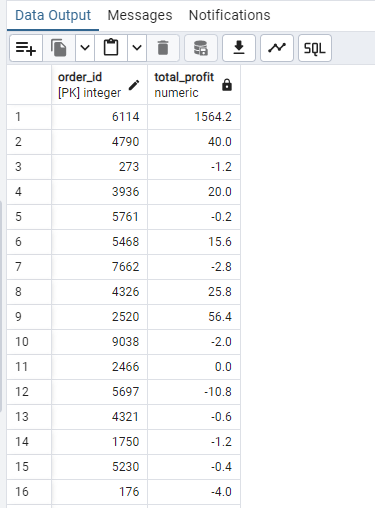
/\*\*\*\*Calculate Total Revenue per Order\*\*\*\*\*\*\*/

select c.order\_id, sum((p.sales\_price - p.cost\_price)\*p.quantity)as total\_revenue from order\_retail1 as c join order\_retail2 as p on c.order\_id=p.id group by c.order\_id;



/\* Query13 \*/

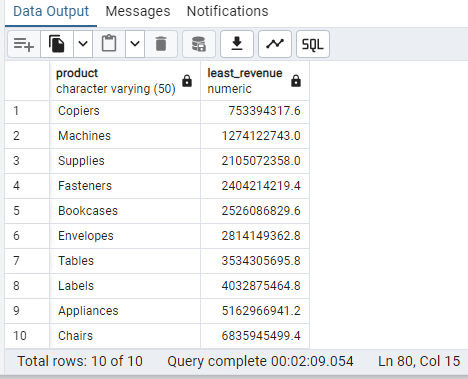
/\*\*\*\*Calculate Total profit per Order\*\*\*\*\*\*\*/



/\* Query14 \*/

/\*\*\*\*\*\*\*Calculate least Revenue by product\*\*\*\*\*\*\*\*\*\*\*\*\*/

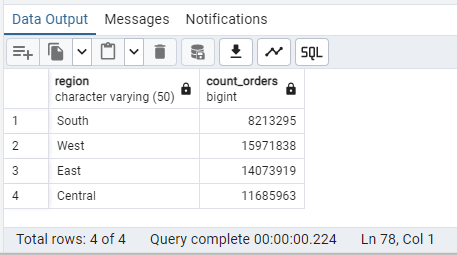
select c.sub\_category as product,sum(p.sales\_price \* p.quantity) as least\_Revenue from order\_Retail1 as c, order\_retail2 as p group by c.sub\_category order by least\_Revenue asc limit 10;



/\* Query15 \*/

/\*\*\*\*\*\*\*Count Orders by Region\*\*\*\*\*\*\*\*\*\*\*\*\*/

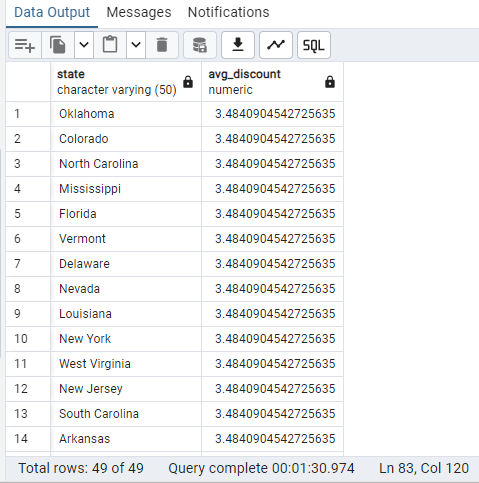
select region, sum(order\_id) as count\_orders from order\_retail1 group by region;



/\* Query16 \*/

/\*\*\*\*\*\*\*Calculate Average Discount by state \*\*\*\*\*\*\*\*\*\*\*\*\*/

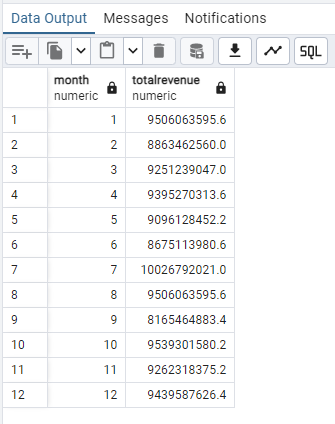
select c.state, avg(p.discount\_percent) as avg\_discount from order\_retail1 as c, order\_retail2 as p group by c.state;



/\* Query17 \*/

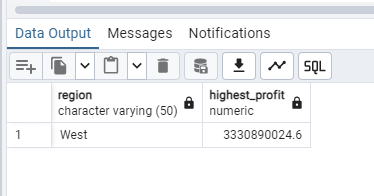
/\*\*\*\*\*\*\*Calculate the total revenue generated on month wise \*\*\*\*\*\*\*\*\*\*\*\*\*/

select extract(Month from c.order\_date) as Month, sum((p.sales\_price)\*p.quantity) as TotalRevenue from order\_retail2 as p, order\_retail1 as c group by extract(Month from c.order\_date) order by Month;



/\* Query18 \*/

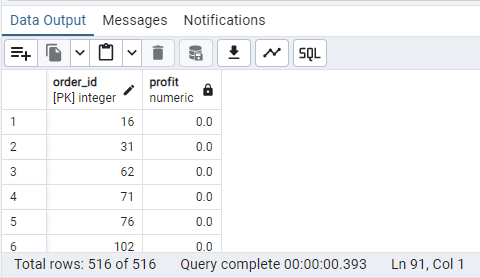
/\*\*\*\*\*\*\*Region with the Highest Profit\*\*\*\*\*\*\*\*\*\*\*\*\*/



/\* Query19 \*/

/\*\*\*\*\*\*\*\*Identify Orders with No Profit (Profit = 0)\*\*\*\*\*\*\*\*/

select c.order\_id,(p.sales\_price - p.cost\_price)\*quantity as profit from order\_retail2 as p join order\_retail1 as c on c.order\_id=p.id where (p.sales\_price - p.cost\_price)\*quantity=0;



/ \* Query20 \*/

/\*\*\*\*\*\*\*\*Most Frequently Ordered Product Category\*\*\*\*\*\*\*\*/

SELECT c.category, count(p.id) AS OrderCount FROM order\_retail1 as c JOIN order\_Retail2 as p ON c.order\_id = p.id GROUP BY c.category ORDER BY OrderCount DESC LIMIT 1;

