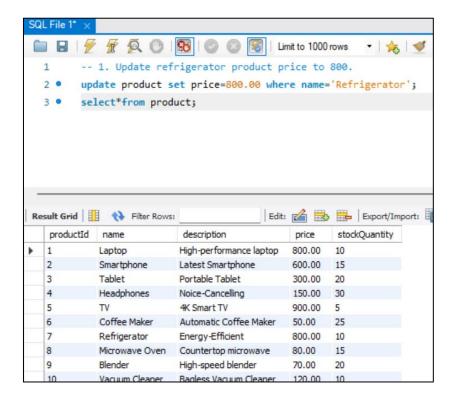
SQL - Coding Challenge - Ecom

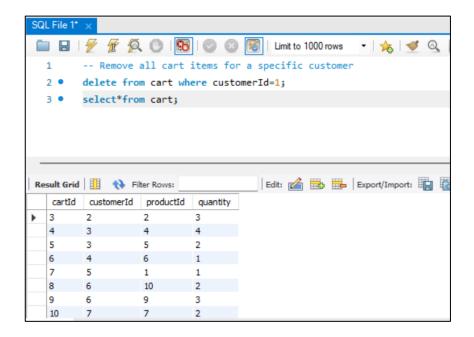
1. Update refrigerator product price to 800.

update product set price=800.00 where name='Refrigerator';



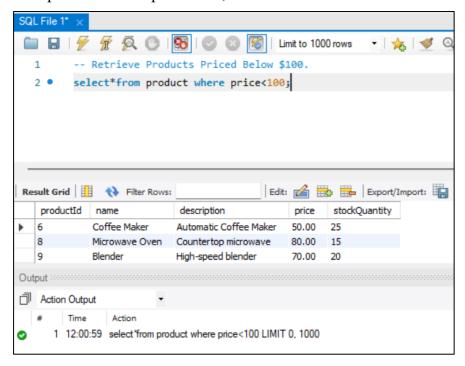
2. Remove all cart items for a specific customer.

delete from cart where customerId=1;



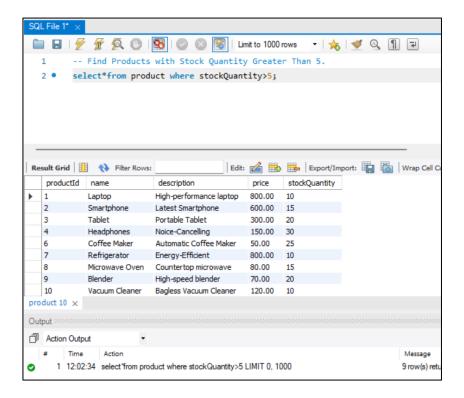
3. Retrieve Products Priced Below \$100.

select*from product where price<100;



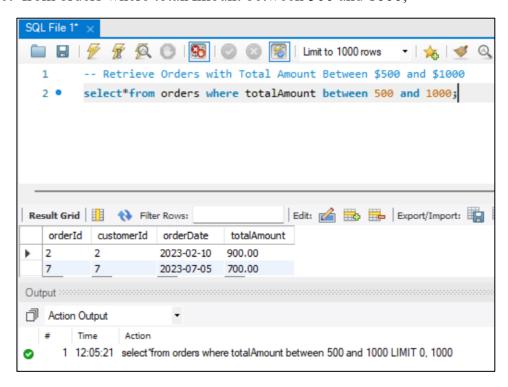
4. Find Products with Stock Quantity Greater Than 5.

select*from product where stockQuantity>5;



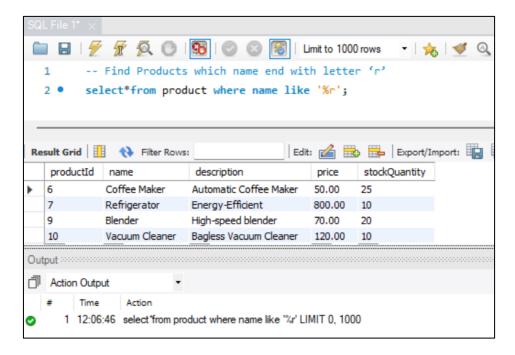
5. Retrieve Orders with Total Amount Between \$500 and \$1000.

select*from orders where totalAmount between 500 and 1000;



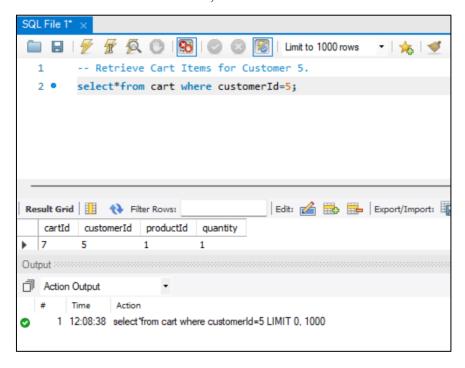
6. Find Products which name end with letter 'r'.

select*from product where name like '%r';



7. Retrieve Cart Items for Customer 5.

select*from cart where customerId=5;



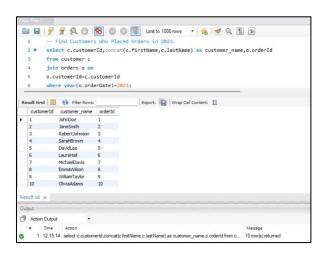
8. Find Customers Who Placed Orders in 2023

select c.customerId,concat(c.firstName,c.lastName) as customer_name,o.orderId from customer c

join orders o on

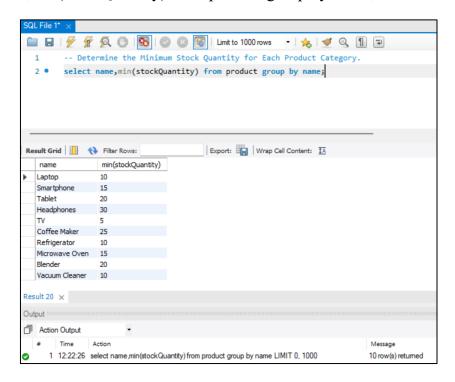
o.customerId=c.customerId

where year(o.orderDate)=2023;



9. Determine the Minimum Stock Quantity for Each Product Category.

select name, min(stockQuantity) from product group by name;

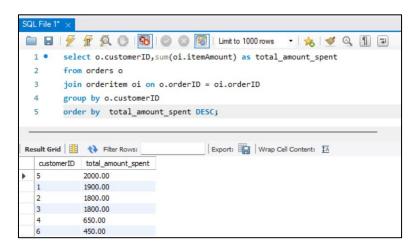


10. Calculate the Total Amount Spent by Each Customer.

select o.customerID,sum(oi.itemAmount) as total_amount_spent from orders o left join orderitem oi on o.orderID = oi.orderID

group by o.customerID

order by total_amount_spent DESC;

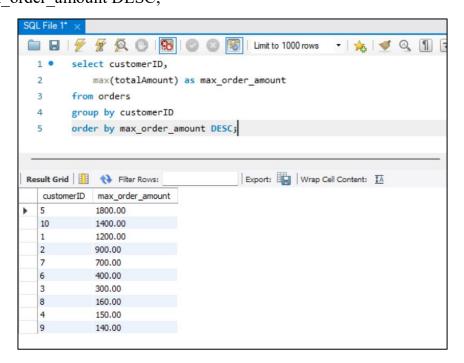


11. Find the Average Order Amount for Each Customer.

select customerID,

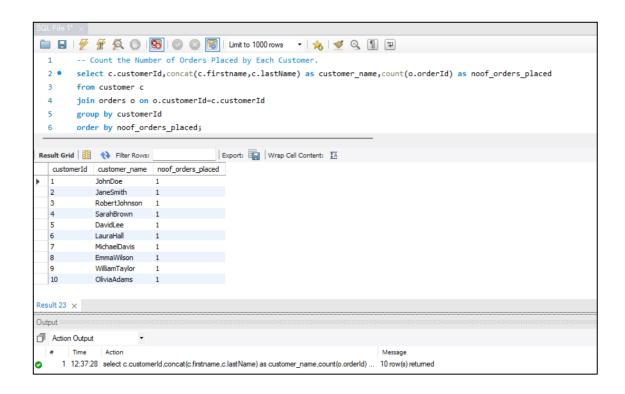
max(totalAmount) as max_order_amount
from orders
group by customerID

order by max order amount DESC;



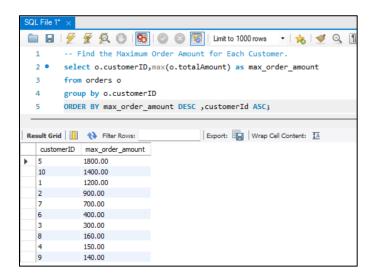
12. Count the Number of Orders Placed by Each Customer.

select c.customerId,concat(c.firstName,c.lastName) as customer_name,count(o.orderId) as noof_orders_placed from customer c join orders o on o.customerId=c.customerId group by customerid order by noof_orders_placed;



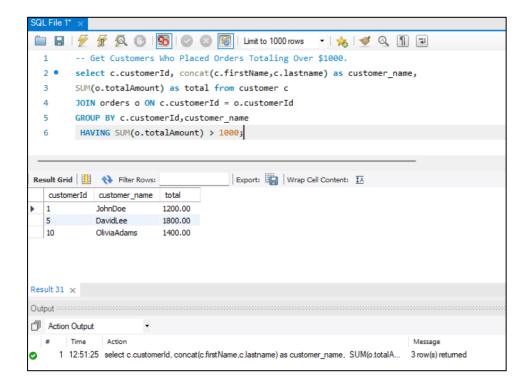
13. Find the Maximum Order Amount for Each Customer

select o.customerId,max(o.totalAmount) as max_order-amount from orders o group by o.customerId order by max_order amount DESC;



14. Get Customers Who Placed Orders Totaling Over \$1000.

select c.customerId,concat(c.firstName,c.lastName) as customer_name, sum(o.totalAmount) as total from customer c join orders o on c.customerId = o.customerId group by c.customerId,customer_name having sum(o.totalAmount)>1000;



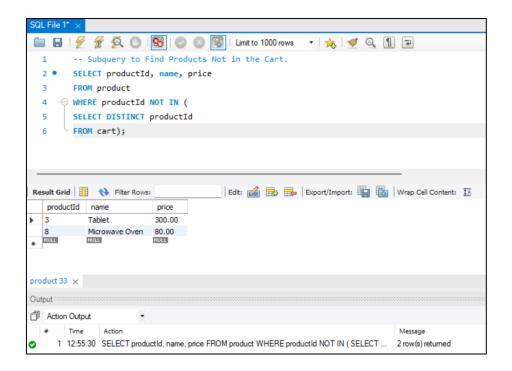
15. Subquery to Find Products Not in the Cart.

select productid,name,price

from product

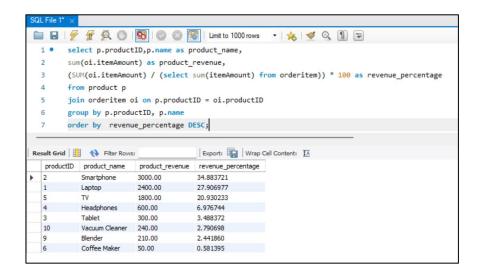
where producted not in(

select distinct productId from cart);



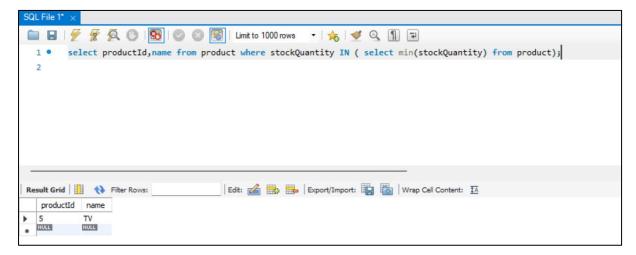
17. Subquery to Calculate the Percentage of Total Revenue for a Product.

select p.productid,name as product_name,sum(oi.itemAmount) as product_revenue,(sum(oi.itemAmount)/(select sum(itemAmount) from orderitem))*100 as revenue_percentage from product p join orderitem oi on p.productId=oi.productId group by p.productId,p.name order by revenue_percentage DESC;



18. Subquery to Find Products with Low Stock.

select productId,name from product where stockQuantity in(select min(stockQuantity) from product);



19. Subquery to Find Customers Who Placed High-Value Orders.

select firstName,lastName,email,address from customer where customerId in (select customerId from orders where totalAmount=(select max(totalAmount) from orders));

