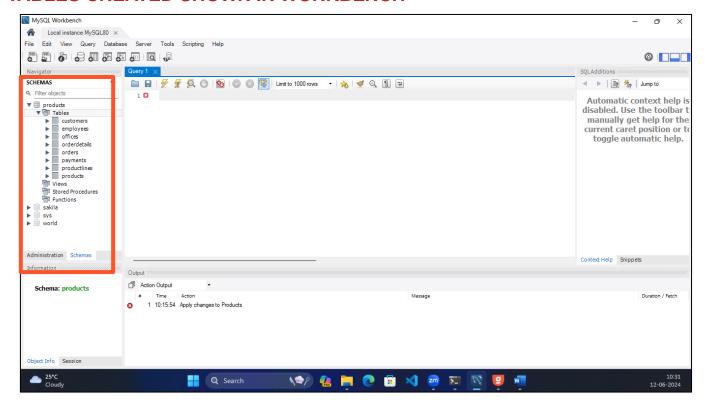
Name: RAUNAK RAJESH SHAH

MySQL Assignment 2

Using WINDOWS

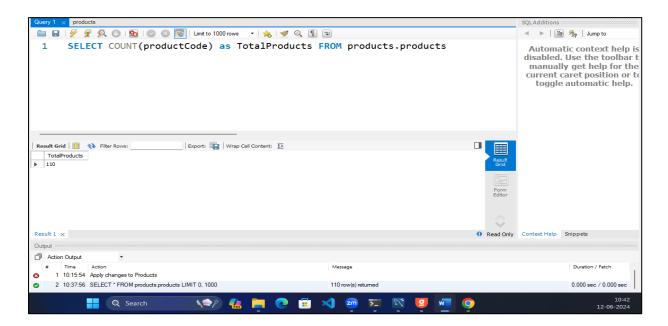
TABLES CREATED SHOWN IN WORKBENCH



Execution of all the queries

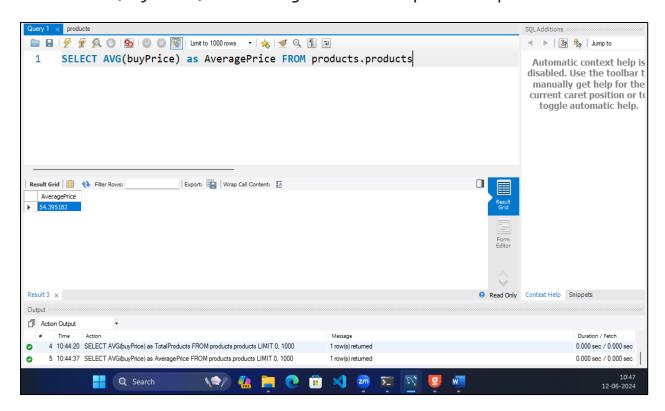
Q1. Write a query to calculate the total number of products in the database.

SELECT COUNT(productCode) as TotalProducts FROM products.products



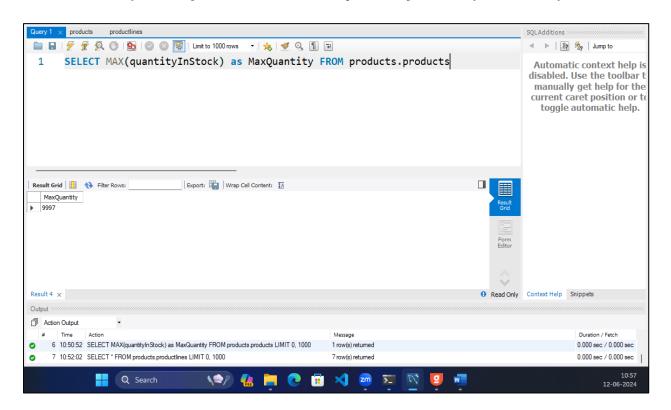
Q2. Write a query to find the average buy price of all products

SELECT AVG(buyPrice) as AveragePrice FROM products.products



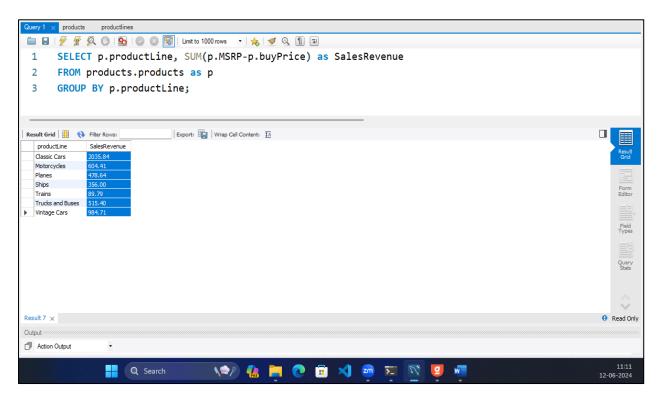
Q3. Write a query to determine the maximum quantity in stock across all products.

SELECT MAX(quantityInStock) as MaxQuantity FROM products.products



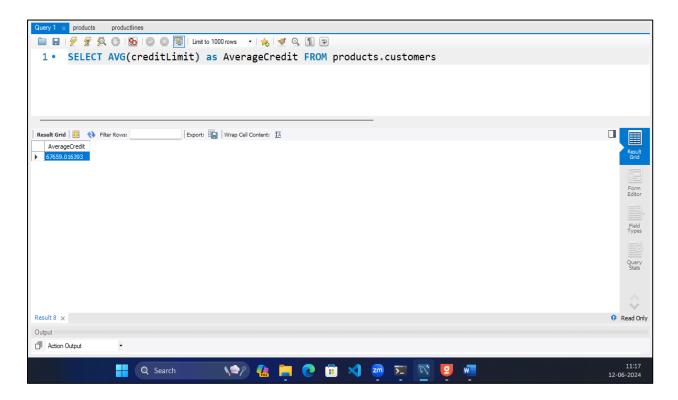
Q4. Write a query to calculate the total sales revenue for each product line.

SELECT p.productLine, SUM(p.MSRP-p.buyPrice) as SalesRevenue
FROM products.products as p
GROUP BY p.productLine;



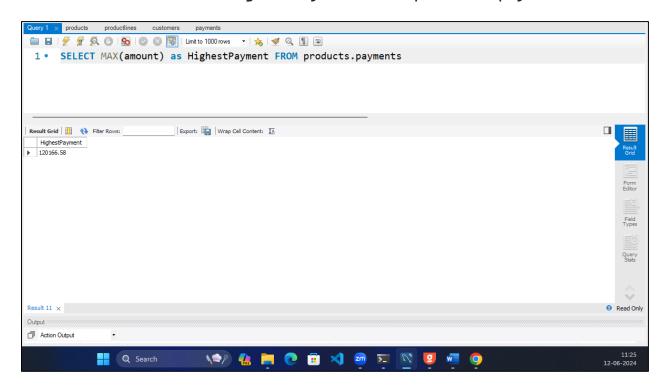
Q5. Write a guery to determine the average credit limit for all customers.

SELECT AVG(creditLimit) as AverageCredit FROM products.customers



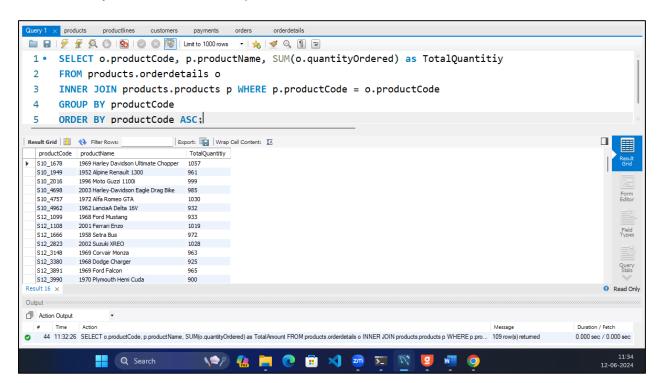
Q6. Write a query to find the highest payment amount made by a customer.

SELECT MAX(amount) as HighestPayment FROM products.payments



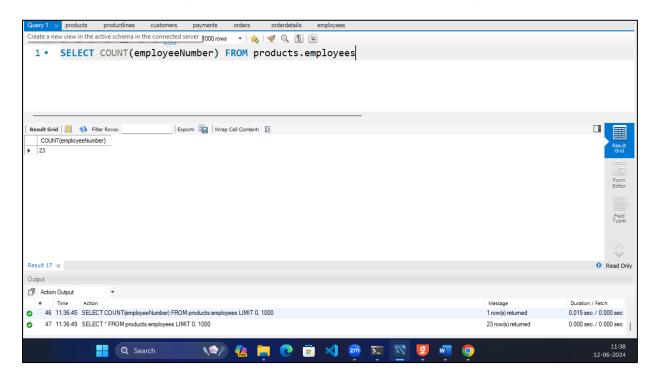
Q7. Write a query to calculate the total quantity ordered for each product.

```
SELECT o.productCode, p.productName, SUM(o.quantityOrdered) as To-
talQuantitiy
FROM products.orderdetails o
INNER JOIN products.products p WHERE p.productCode = o.productCode
GROUP BY productCode
ORDER BY productCode ASC;
```



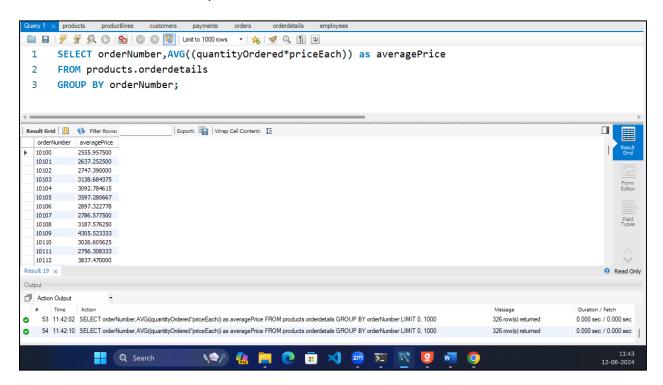
Q8. Write a query to determine the number of employees in each office.

SELECT COUNT(employeeNumber) FROM products.employees



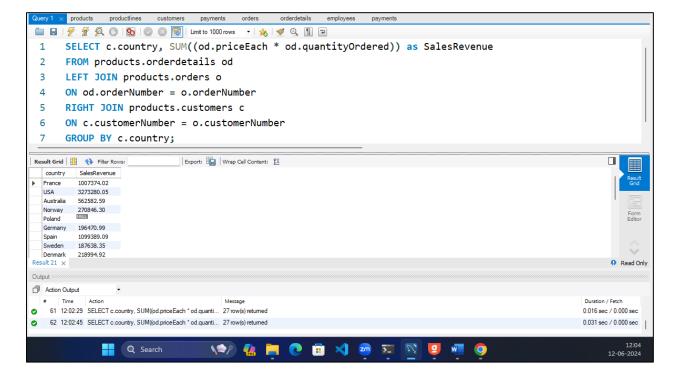
Q9. Write a query to calculate the average price for each order.

SELECT orderNumber, AVG((quantityOrdered*priceEach)) as averagePrice
FROM products.orderdetails
GROUP BY orderNumber;



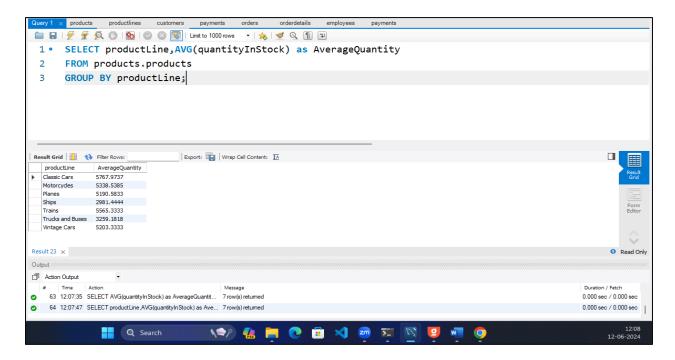
Q10. Write a query to determine the total sales revenue for each country.

```
SELECT c.country, SUM((od.priceEach * od.quantityOrdered)) as Sales-
Revenue
FROM products.orderdetails od
LEFT JOIN products.orders o
ON od.orderNumber = o.orderNumber
RIGHT JOIN products.customers c
ON c.customerNumber = o.customerNumber
GROUP BY c.country;
```



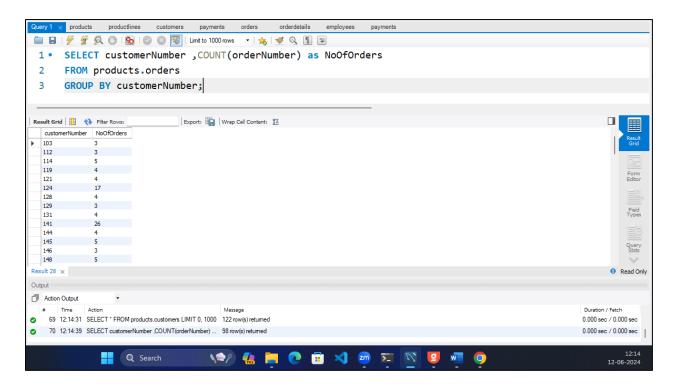
Q11. Write a guery to calculate the average quantity in stock for each product line.

SELECT productLine, AVG(quantityInStock) as AverageQuantity
FROM products.products
GROUP BY productLine;



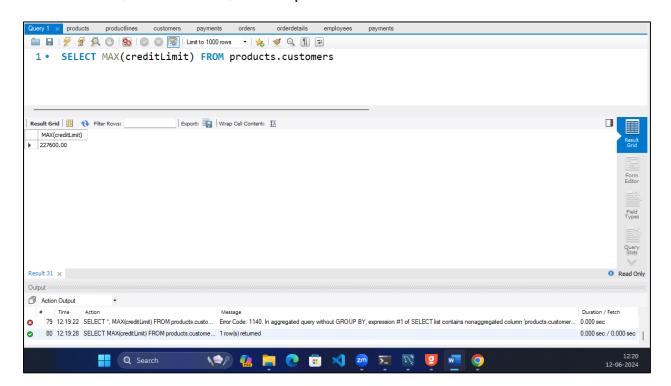
Q12. Write a query to determine the total number of orders placed by each customer.

SELECT customerNumber ,COUNT(orderNumber) as NoOfOrders
FROM products.orders
GROUP BY customerNumber;



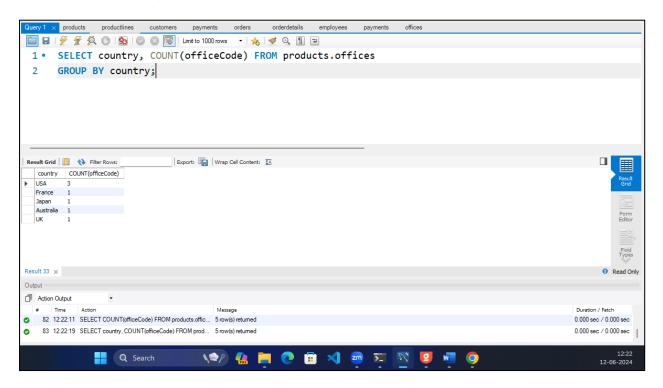
Q13. Write a query to find the maximum credit limit among all customers.

SELECT MAX(creditLimit) FROM products.customers



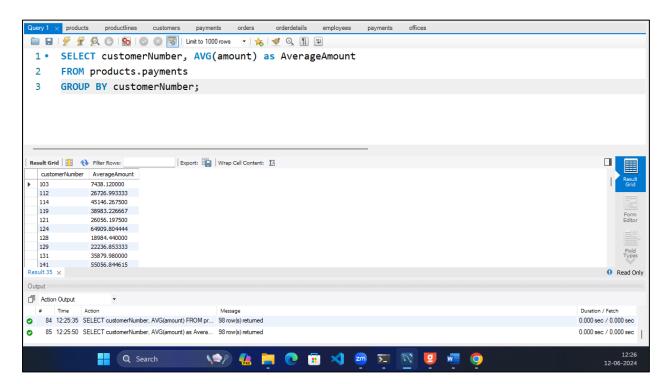
Q14. Write a query to count the number of offices in each country.

SELECT country, COUNT(officeCode) FROM products.offices
GROUP BY country;



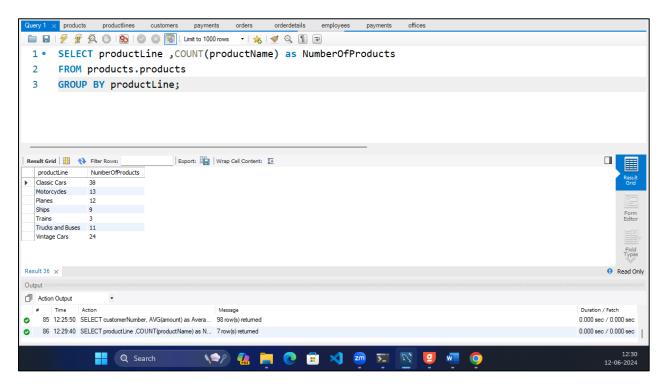
Q15. Write a query to calculate the average payment amount for each customer.

SELECT customerNumber, AVG(amount) as AverageAmount
FROM products.payments
GROUP BY customerNumber;



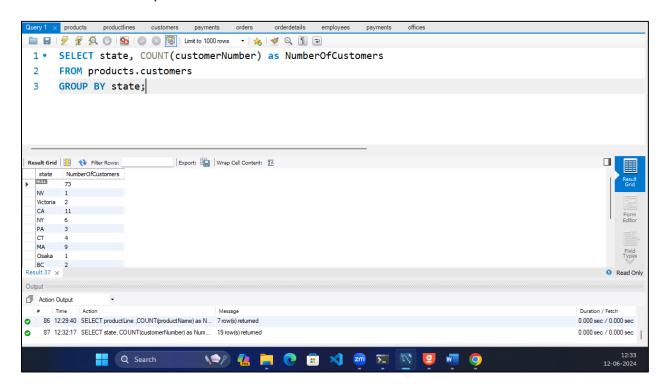
Q16. Write a guery to determine the number of products in each product line.

SELECT productLine ,COUNT(productName) as NumberOfProducts
FROM products.products
GROUP BY productLine;



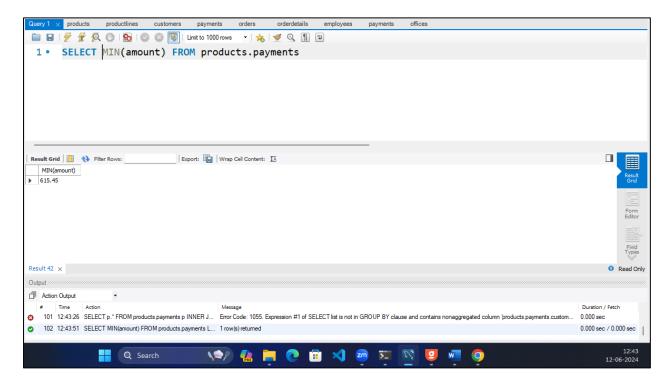
Q17. Write a query to count the number of customers in each state.

SELECT state, COUNT(customerNumber) as NumberOfCustomers
FROM products.customers
GROUP BY state;



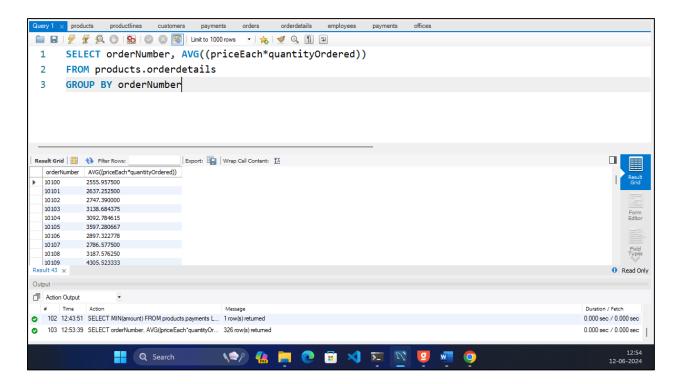
Q18. Write a query to find the minimum payment amount among all customers.

SELECT MIN(amount) FROM products.payments



Q19. Write a query to calculate the average sales revenue per order.

SELECT orderNumber, AVG((priceEach*quantityOrdered))
FROM products.orderdetails
GROUP BY orderNumber



Q20. Write a guery to determine the total quantity ordered for each product line.

SELECT p.productLine, SUM(o.quantityOrdered) FROM products.orderdetails o
INNER JOIN products.products p
ON o.productCode = p.productCode
GROUP BY p.productLine;

