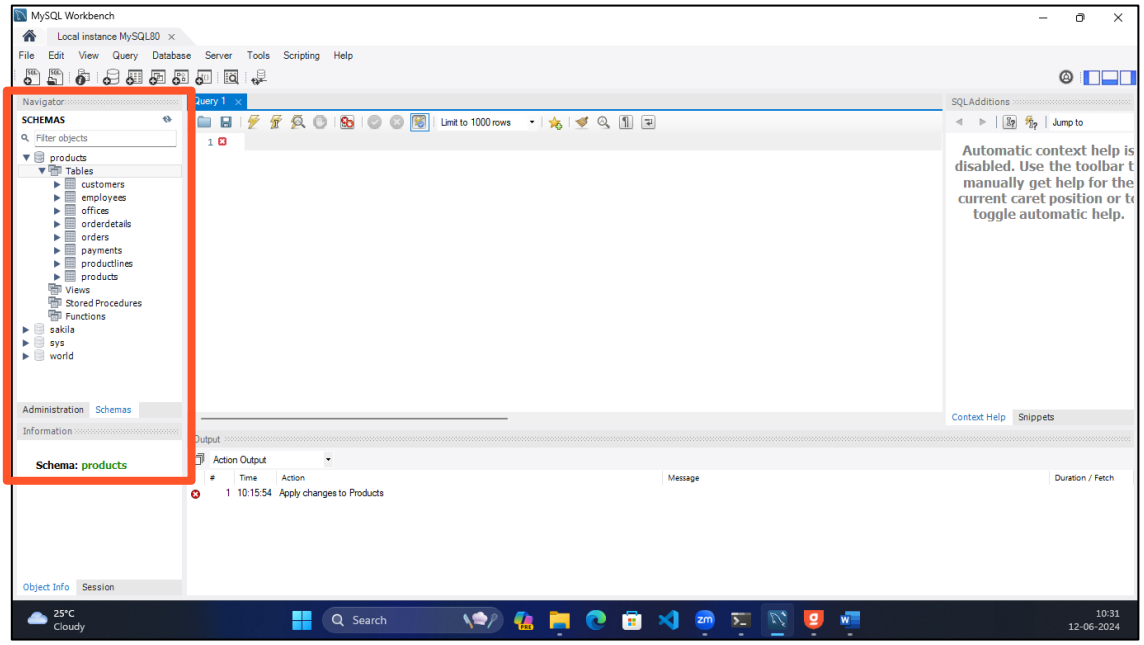
Name: RAUNAK RAJESH SHAH

MySQL Assignment 3

Using WINDOWS

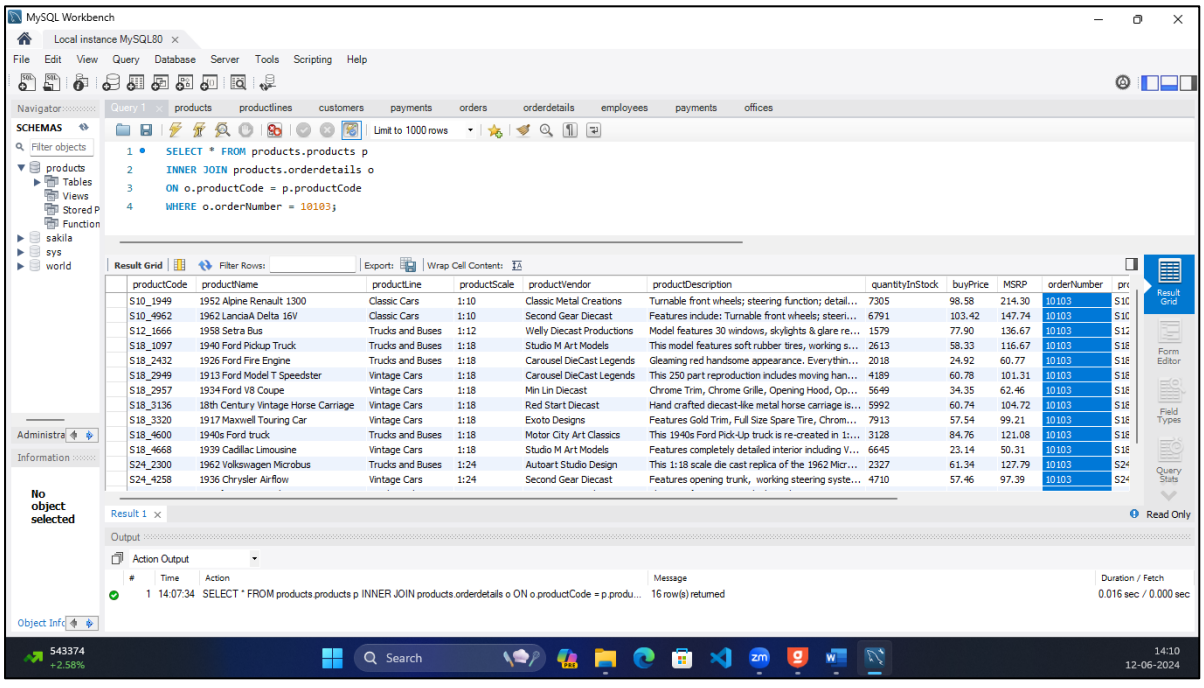
TABLES CREATED SHOWN IN WORKBENCH



Execution of all the queries

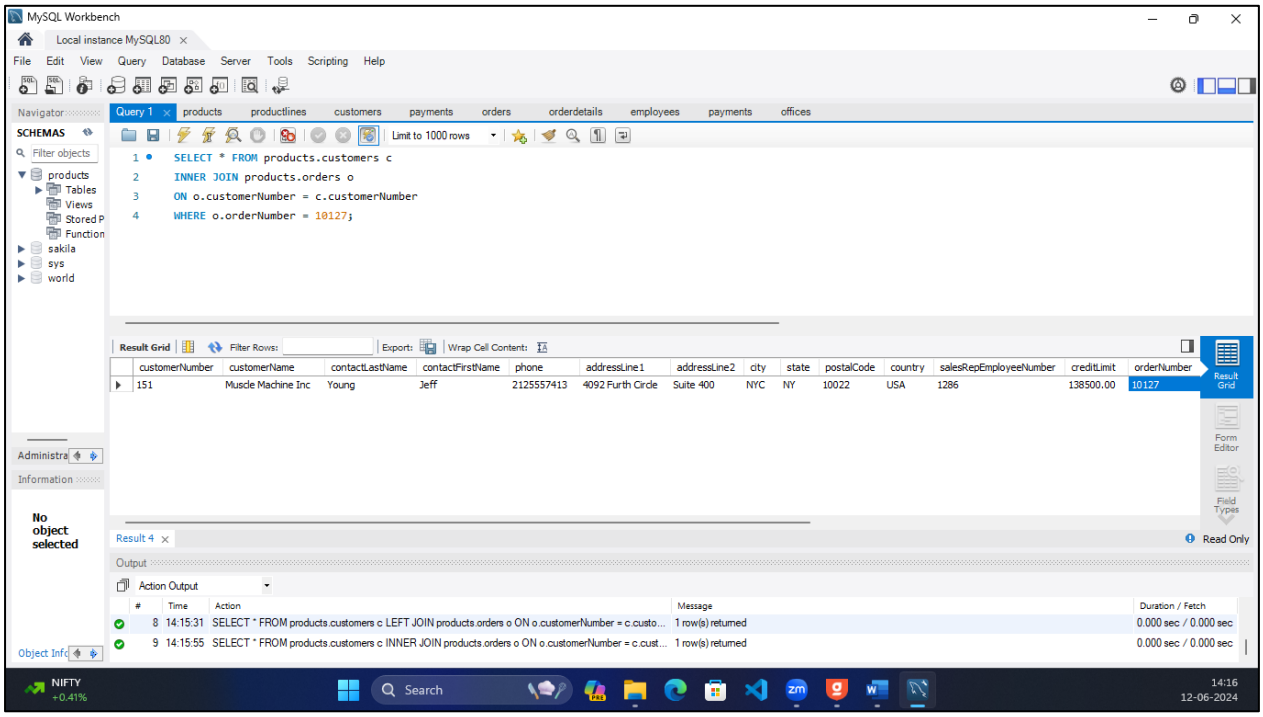
Q1. Write a query to retrieve the product details for order 10103.

```
SELECT * FROM products.products p
INNER JOIN products.orderdetails o
ON o.productCode = p.productCode
WHERE o.orderNumber = 10103;
```



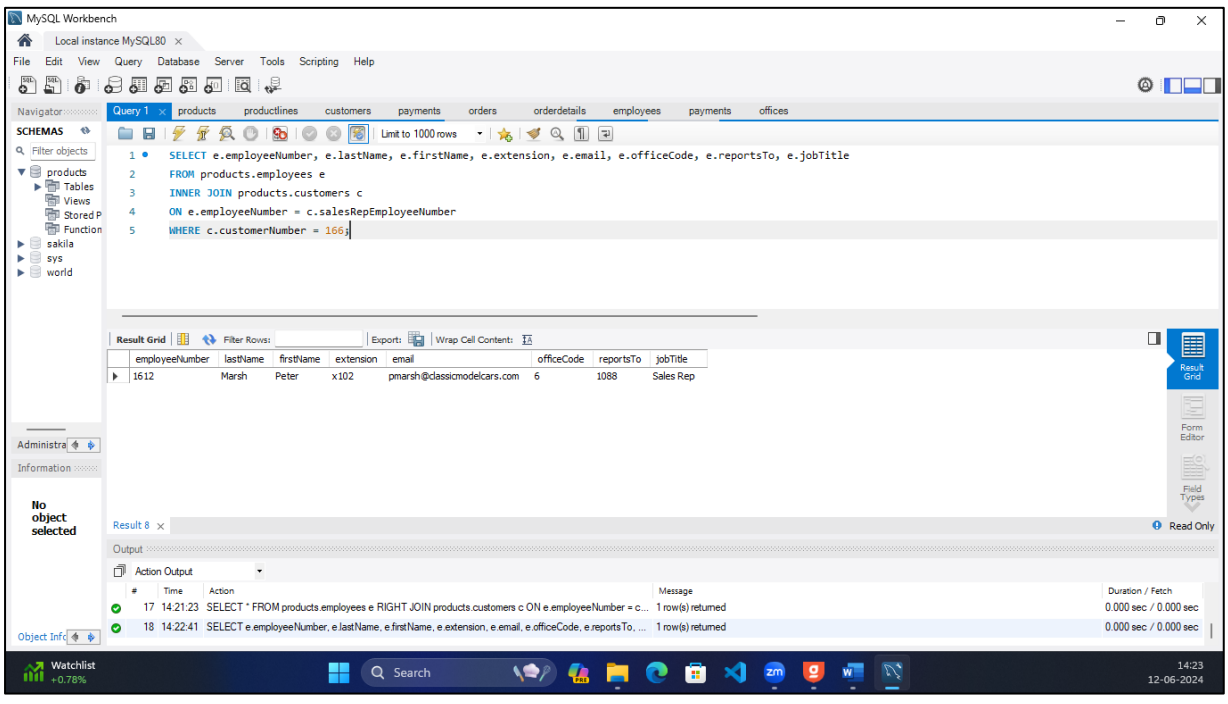
Q2. Write a query to get the customer information for order 10127

```
SELECT * FROM products.customers c
INNER JOIN products.orders o
ON o.customerNumber = c.customerNumber
WHERE o.orderNumber = 10127;
```



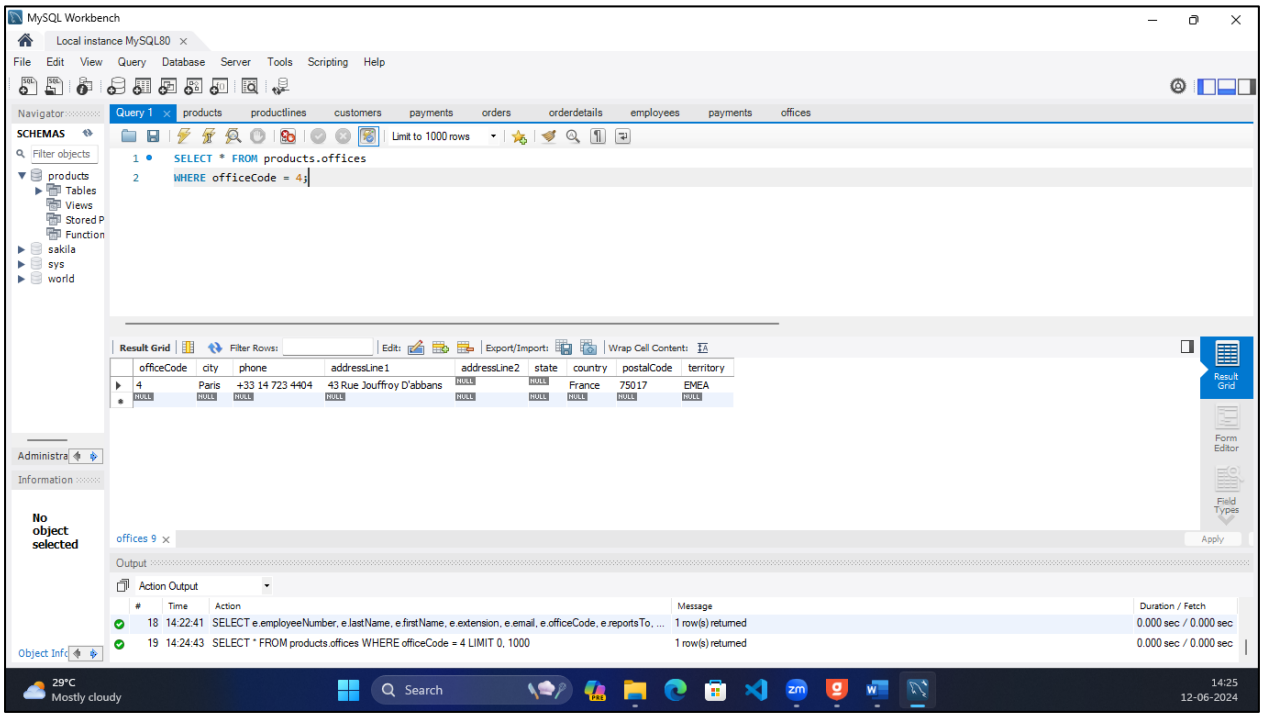
Q3. Write a query to retrieve the employee information for customer 166

```
SELECT e.employeeNumber, e.lastName, e.firstName, e.extension,
e.email, e.officeCode, e.reportsTo, e.jobTitle
FROM products.employees e
INNER JOIN products.customers c
ON e.employeeNumber = c.salesRepEmployeeNumber
WHERE c.customerNumber = 166;
```



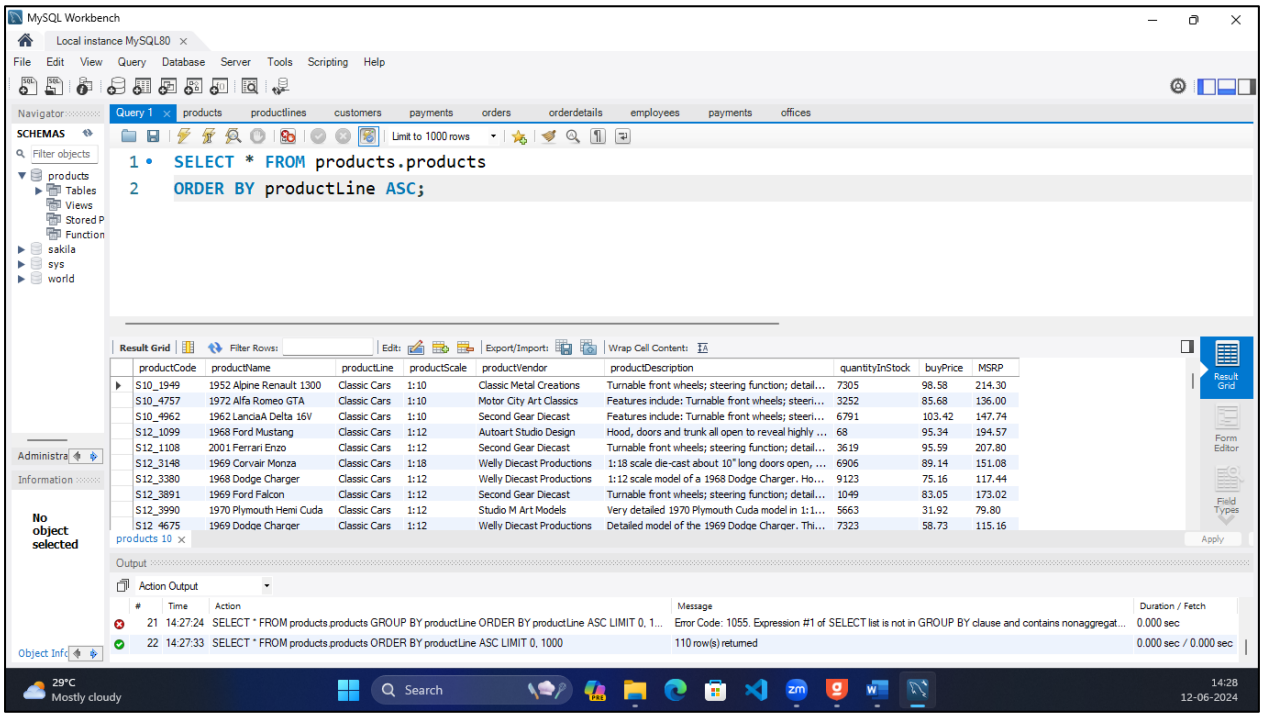
Q4. Write a query to get the official information for office code 4

```
SELECT * FROM products.offices
WHERE officeCode = 4;
```



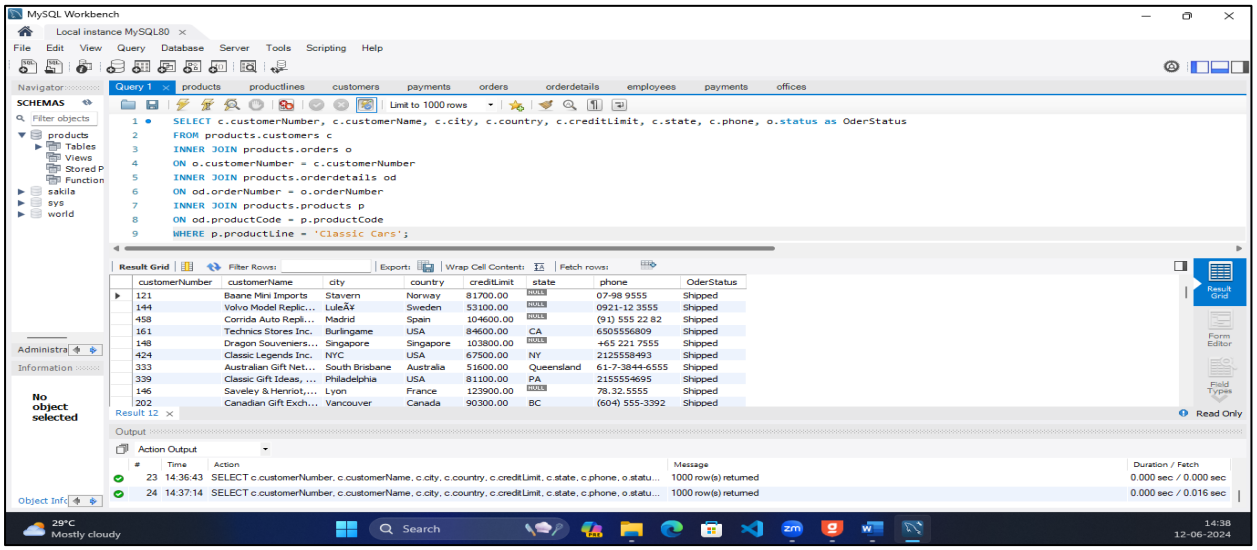
Q5. Write a query to retrieve the product line for each product in an order.

```
SELECT * FROM products.products
ORDER BY productLine ASC;
```



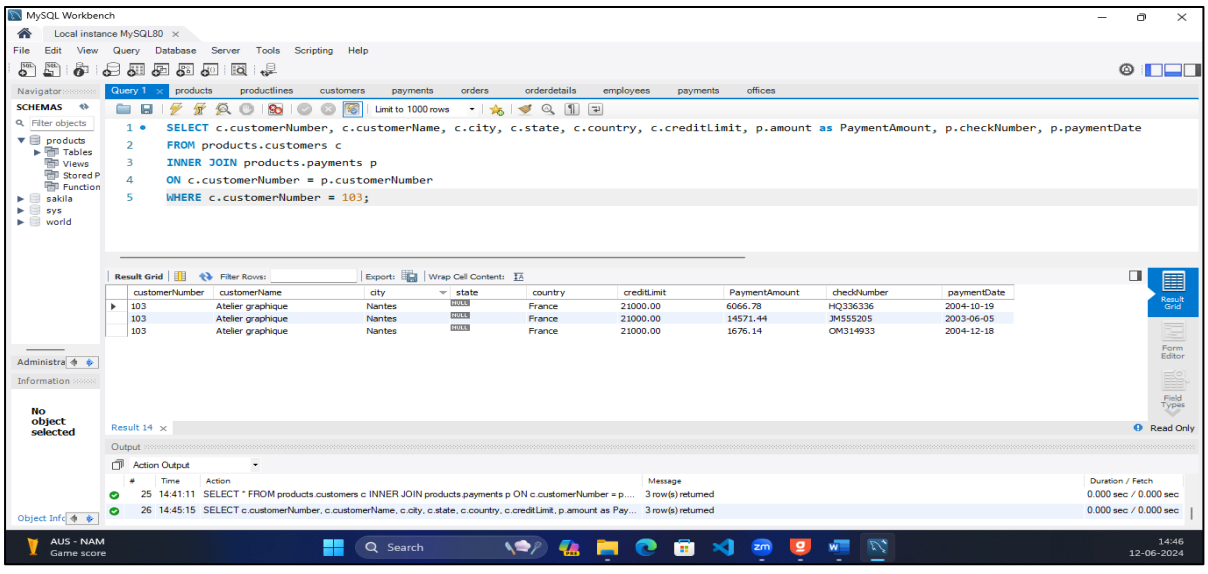
Q6. Write a query to get the customer information and order status for all orders that contain products belonging to the 'Classic Cars' product line.

```
SELECT c.customerNumber, c.customerName, c.city, c.country,
c.creditLimit, c.state, c.phone, o.status as OderStatus
FROM products.customers c
INNER JOIN products.orders o
ON o.customerNumber = c.customerNumber
INNER JOIN products.orderdetails od
ON od.orderNumber = o.orderNumber
INNER JOIN products.products p
ON od.productCode = p.productCode
WHERE p.productLine = 'Classic Cars';
```



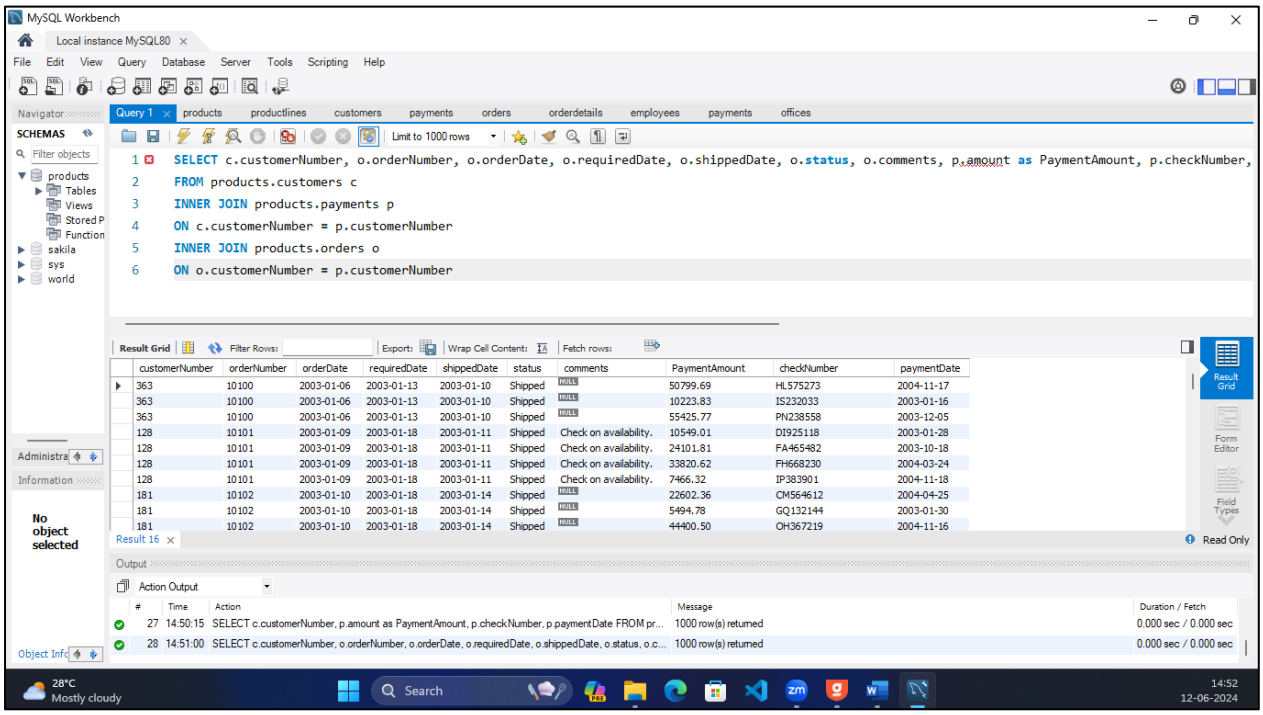
Q7. Write a query to retrieve the payment details and customer details of customer number 103

```
SELECT c.customerNumber, c.customerName, c.city, c.state, c.country,
c.creditLimit, p.amount as PaymentAmount, p.checkNumber,
p.paymentDate
FROM products.customers c
INNER JOIN products.payments p
ON c.customerNumber = p.customerNumber
WHERE c.customerNumber = 103;
```



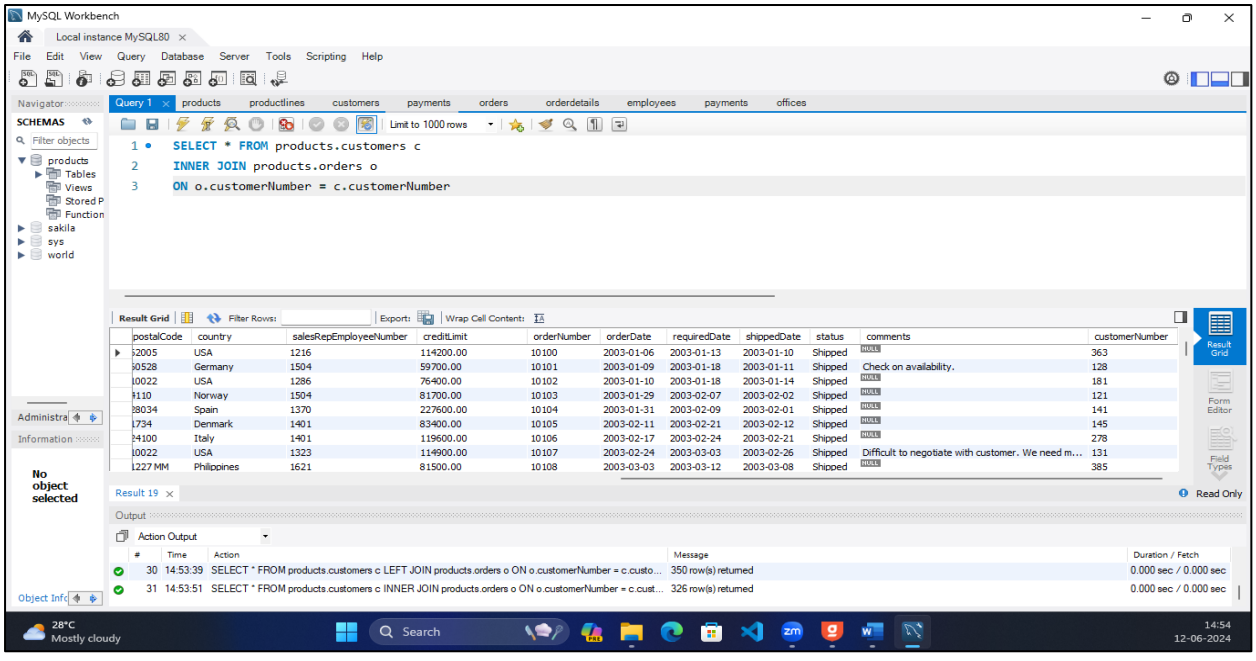
Q8. Write a query to get the orders and their corresponding payments to the same customer.

```
SELECT c.customerNumber, o.orderNumber, o.orderDate, o.requiredDate,
o.shippedDate, o.status, o.comments, p.amount as PaymentAmount,
p.checkNumber, p.paymentDate
FROM products.customers c
INNER JOIN products.payments p
ON c.customerNumber = p.customerNumber
INNER JOIN products.orders o
ON o.customerNumber = p.customerNumber
```



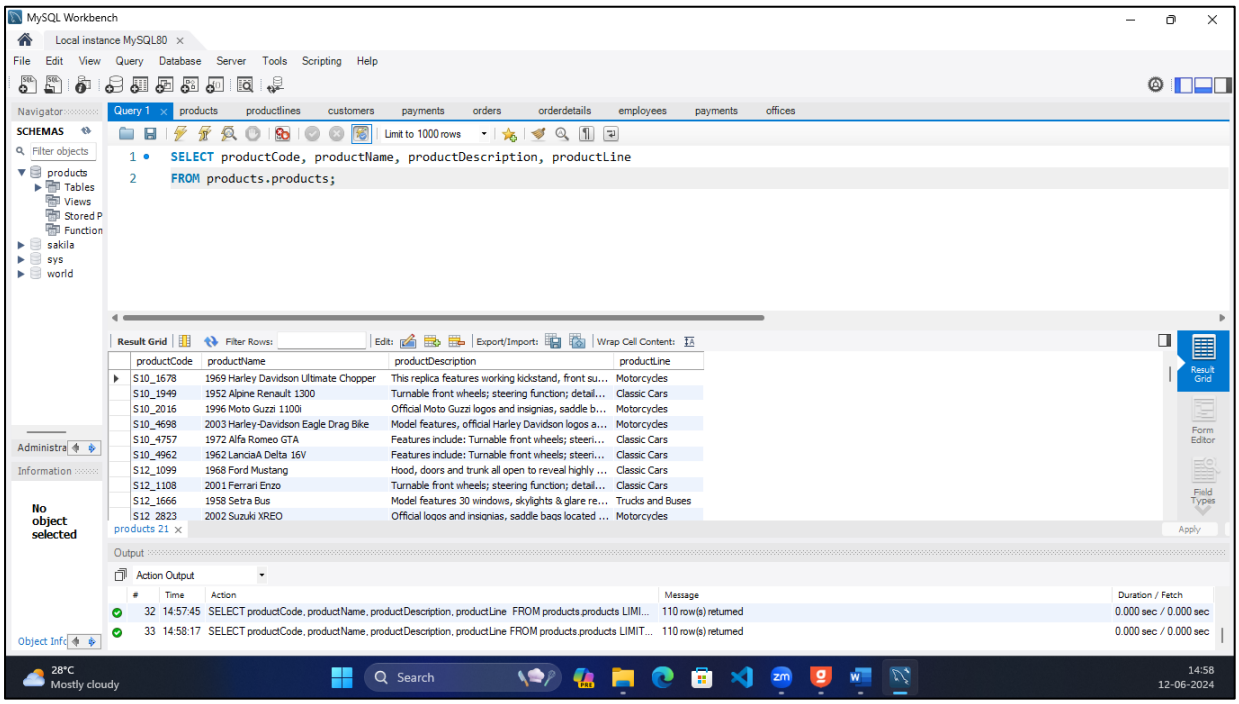
Q9. Write a query to retrieve the customers and their associated orders.

```
SELECT * FROM products.customers c
INNER JOIN products.orders o
ON o.customerNumber = c.customerNumber
```



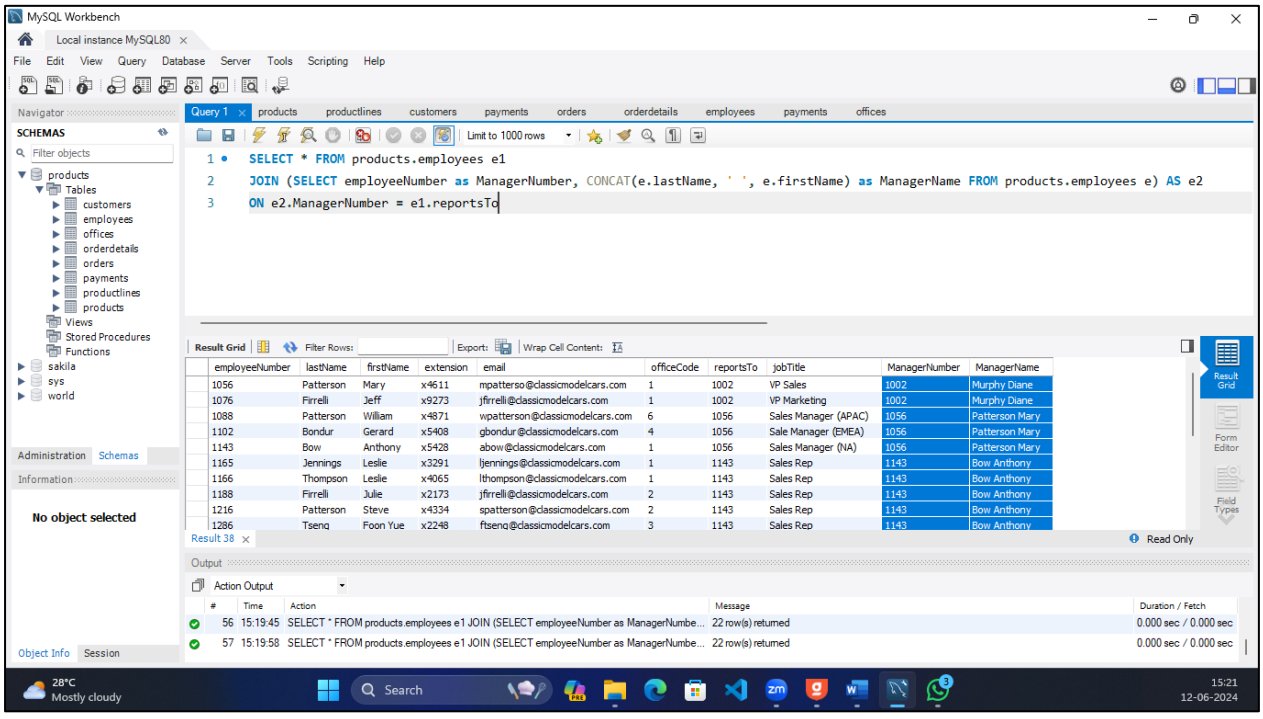
Q10. Write a query to get the products and their corresponding product lines.

```
SELECT productCode, productName, productDescription, productLine
FROM products.products;
```



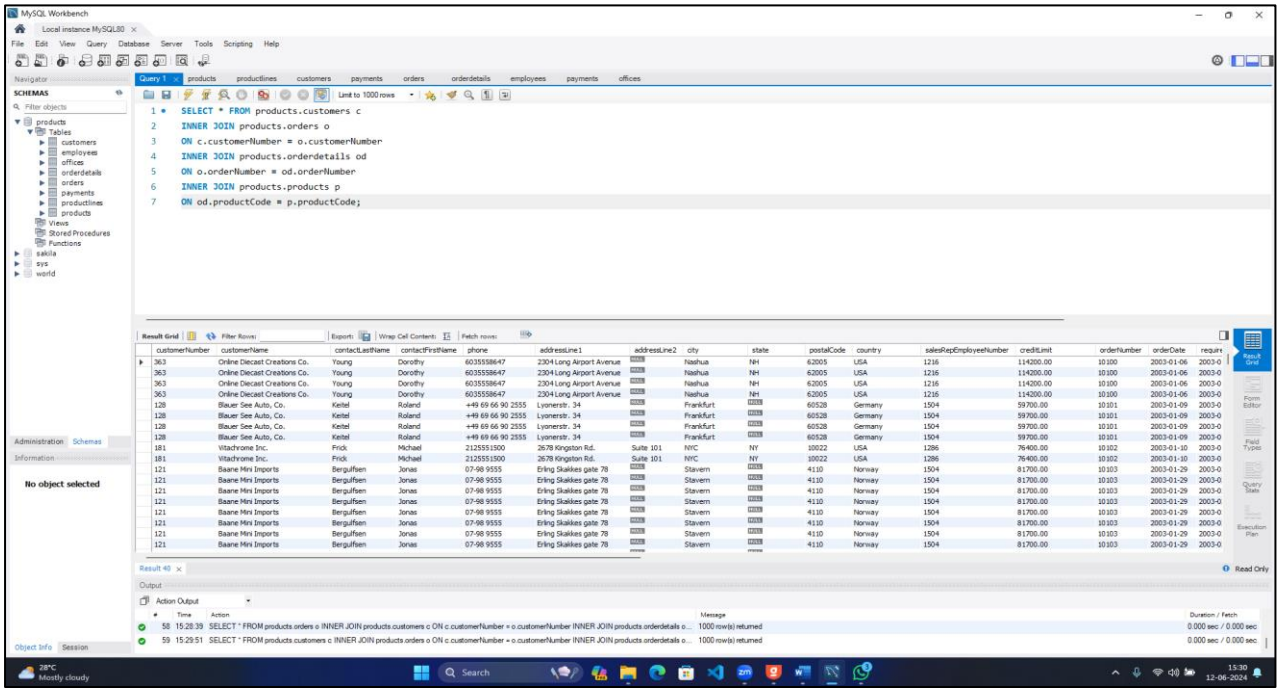
Q11. Write a query to retrieve the employees and their respective managers.

```
SELECT * FROM products.employees e1
JOIN (SELECT employeeNumber as ManagerNumber, CONCAT(e.lastName, ' ',
e.firstName) as ManagerName FROM products.employees e) AS e2
ON e2.ManagerNumber = e1.reportsTo
```



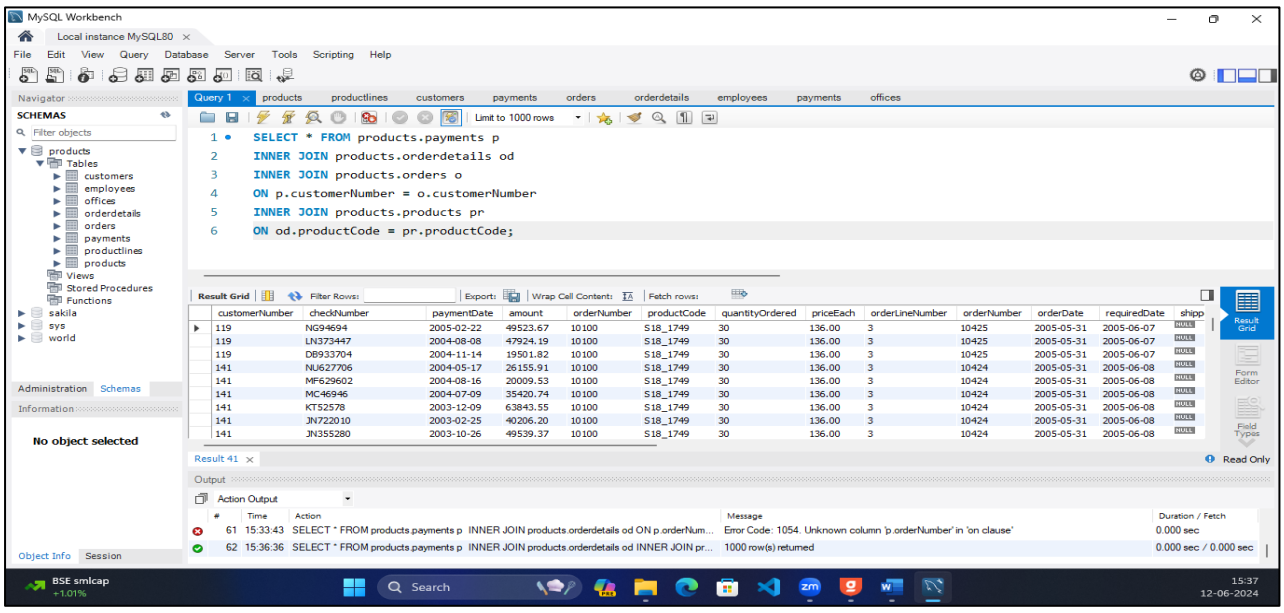
Q12. Write a query to retrieve the customers, their orders, and the corresponding product details.

```
SELECT * FROM products.customers c
INNER JOIN products.orders o
ON c.customerNumber = o.customerNumber
INNER JOIN products.orderdetails od
ON o.orderNumber = od.orderNumber
INNER JOIN products.products p
ON od.productCode = p.productCode;
```



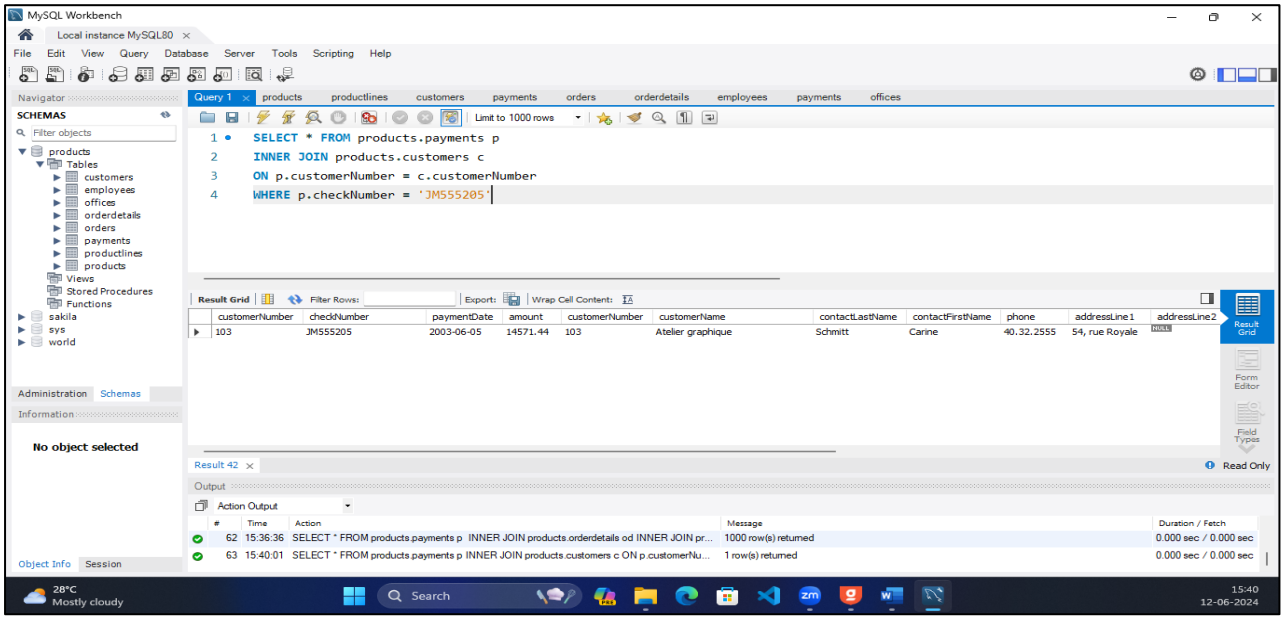
Q13. Write a query to get the payment details, order details, and the associated products.

```
SELECT * FROM products.payments p
INNER JOIN products.orderdetails od
INNER JOIN products.orders o
ON p.customerNumber = o.customerNumber
INNER JOIN products.products pr
ON od.productCode = pr.productCode;
```



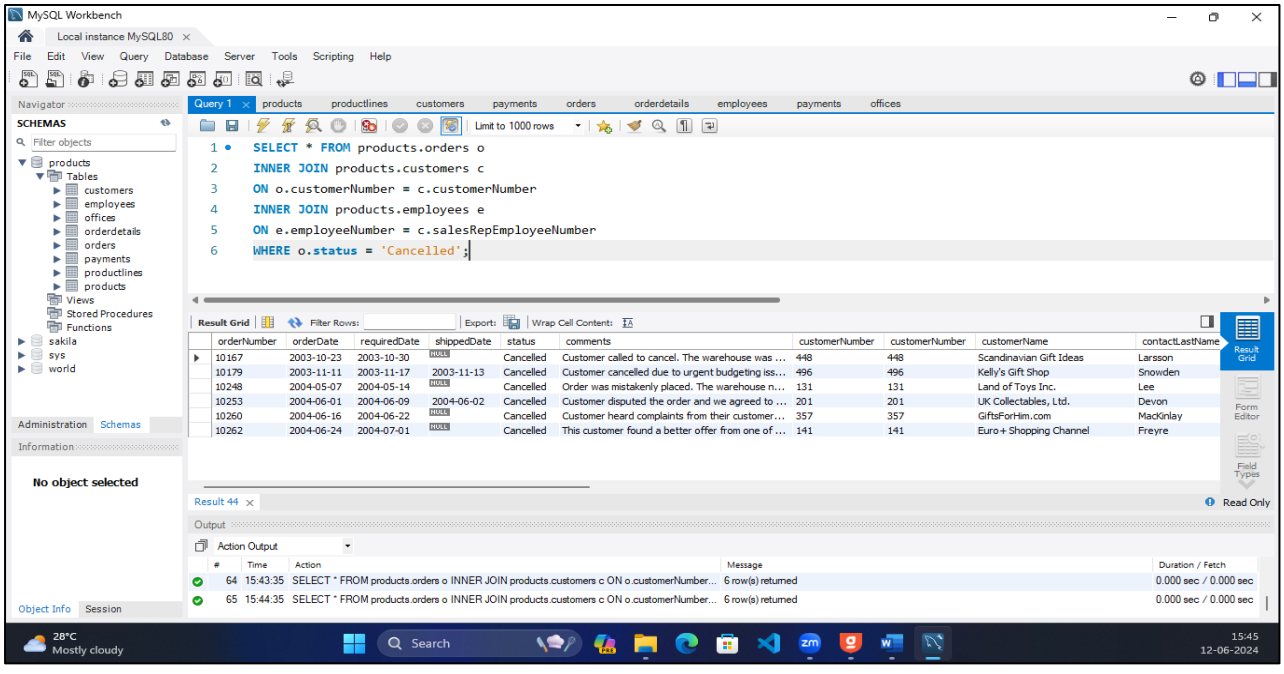
Q14. Write a query to retrieve the payment details and the customer information for the check number - JM555205

```
SELECT * FROM products.payments p
INNER JOIN products.customers c
ON p.customerNumber = c.customerNumber
WHERE p.checkNumber = 'JM555205'
```



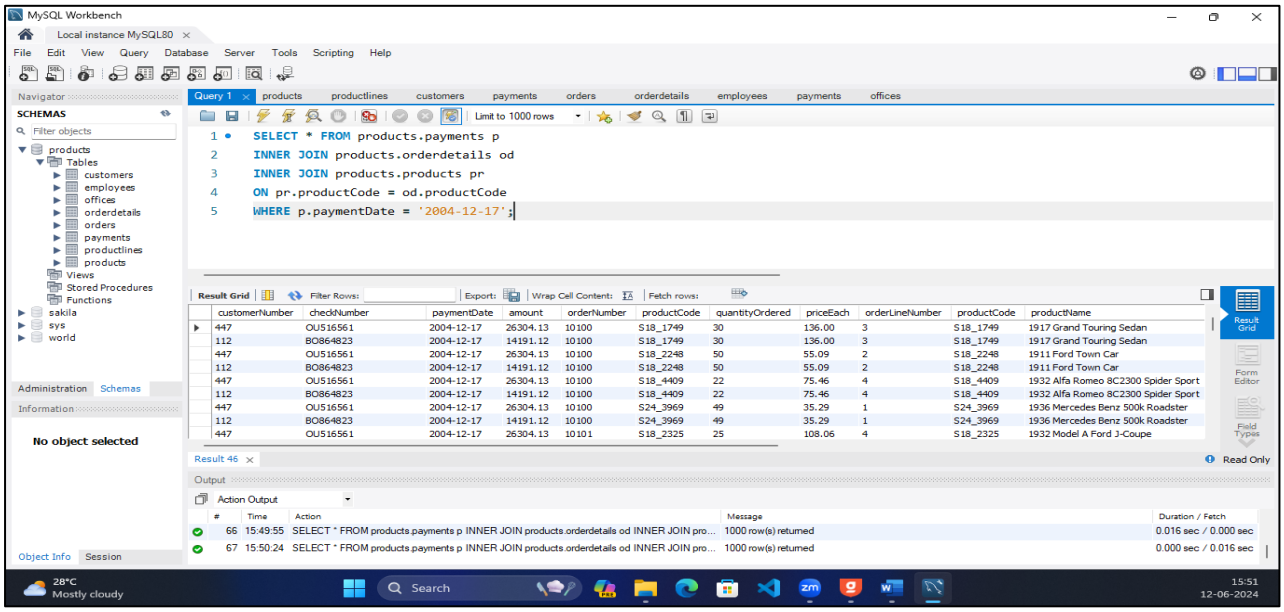
Q15. Write a query to retrieve the orders and their corresponding customer and employee information for a canceled status.

```
SELECT * FROM products.orders o
INNER JOIN products.customers c
ON o.customerNumber = c.customerNumber
INNER JOIN products.employees e
ON e.employeeNumber = c.salesRepEmployeeNumber
WHERE o.status = 'Cancelled';
```



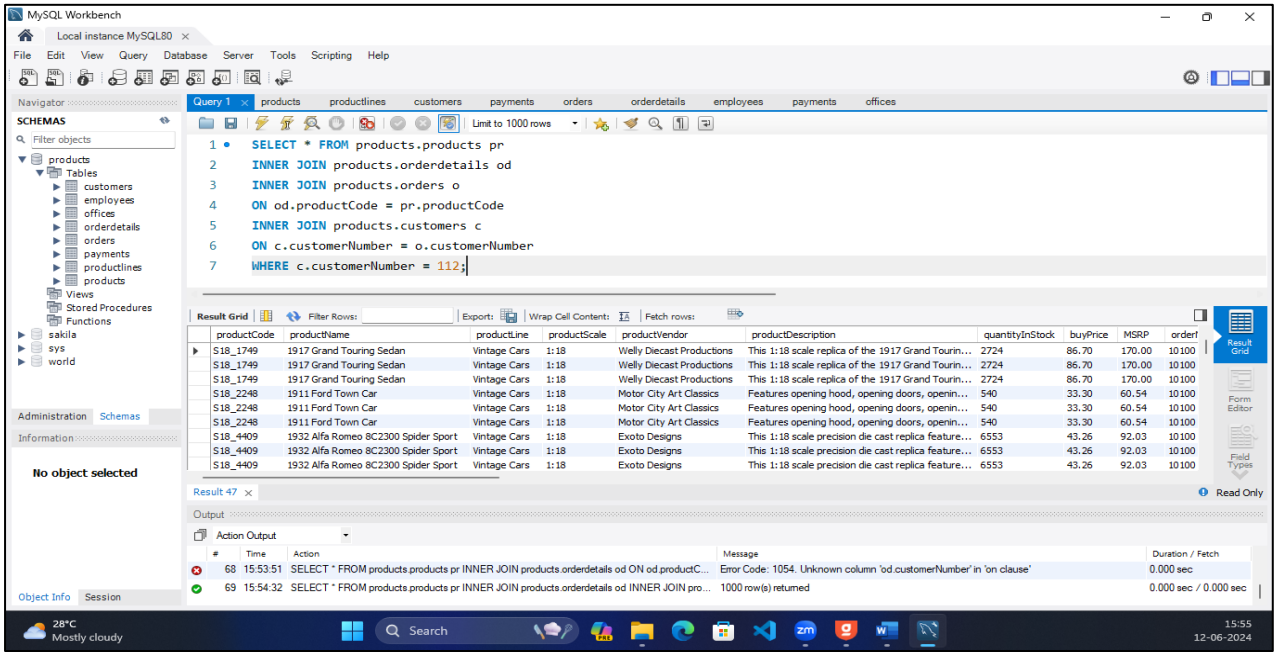
Q16. Write a query to get the payments, order details, and associated product information for the payment date - 2004-12-17

```
SELECT * FROM products.payments p
INNER JOIN products.orderdetails od
INNER JOIN products.products pr
ON pr.productCode = od.productCode
WHERE p.paymentDate = '2004-12-17';
```



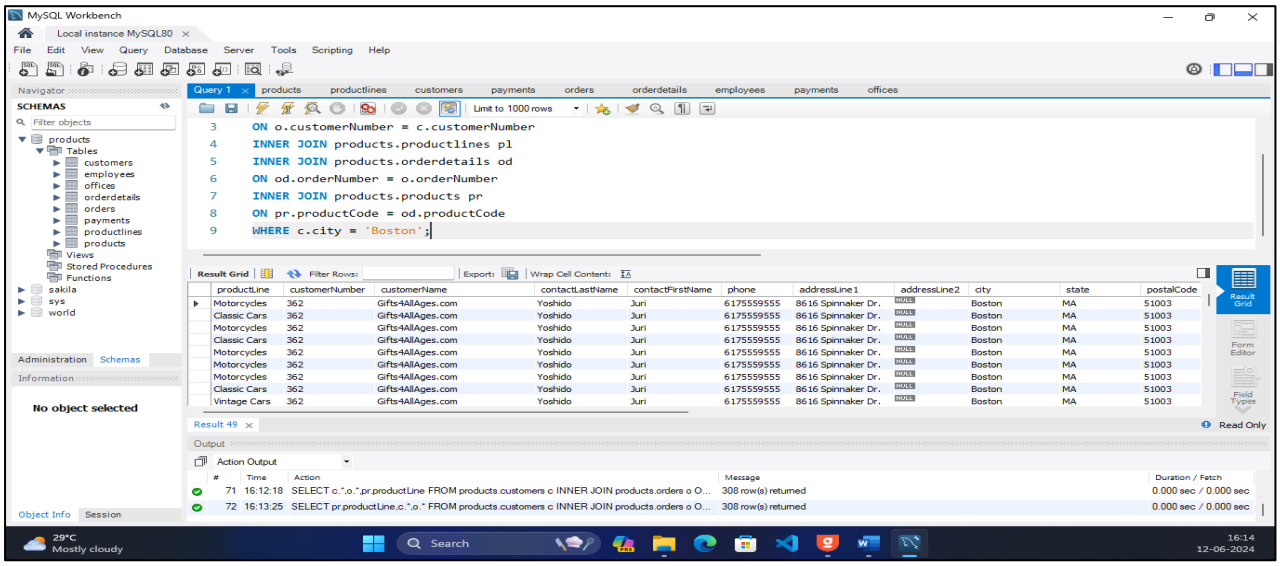
Q17. Write a query to retrieve the products, order details, and corresponding customer information for customer 112

```
SELECT * FROM products.products pr
INNER JOIN products.orderdetails od
INNER JOIN products.orders o
ON od.productCode = pr.productCode
INNER JOIN products.customers c
ON c.customerNumber = o.customerNumber
WHERE c.customerNumber = 112;
```



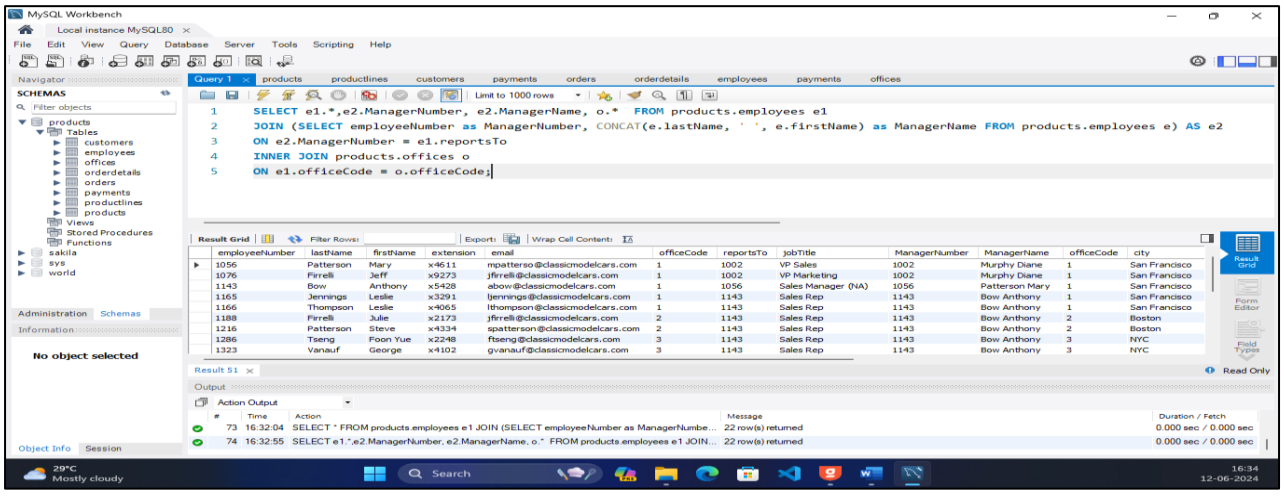
Q18. Write a query to retrieve the customers, their orders, and the associated product line information for the customers who are all from Boston.

```
SELECT pr.productLine,c.*,o.* FROM products.customers c
INNER JOIN products.orders o
ON o.customerNumber = c.customerNumber
INNER JOIN products.productlines pl
INNER JOIN products.orderdetails od
ON od.orderNumber = o.orderNumber
INNER JOIN products.products pr
ON pr.productCode = od.productCode
WHERE c.city = 'Boston';
```



Q19. Write a query to get the employees, their respective managers, and the corresponding office details of the Sales Rep.

```
SELECT e1.*,e2.ManagerNumber, e2.ManagerName, o.*
FROM products.employees e1
JOIN (SELECT employeeNumber as ManagerNumber, CONCAT(e.lastName, ' ',
e.firstName) as ManagerName FROM products.employees e) AS e2
ON e2.ManagerNumber = e1.reportsTo
INNER JOIN products.offices o
ON e1.officeCode = o.officeCode;
```



Q20. Write a query to retrieve the product lines, products, and the corresponding customer information for Vintage Cars.

```
SELECT pr.*,c.* From products.products pr
INNER JOIN products.customers c
INNER JOIN products.orders o
ON c.customerNumber = o.customerNumber
INNER JOIN products.orderdetails od
ON o.orderNumber = od.orderNumber
ON pr.productCode = od.productCode
WHERE pr.productLine = 'Vintage Cars';
```