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MySQL Assignment 1

Using UBUNTU

Load Database using mysql client using CLI

```
rs7@rs7-HP-ProBook-640-G1:~$ sudo mysql -u root
[sudo] password for rs7:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 10
Server version: 8.0.36-2ubuntu3 (Ubuntu)
Copyright (c) 2000, 2024, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use Products;
Database changed
```

RUN classicmodels_customers.sql

```
mysql> source /home/rs7/Downloads/classicmodels/classicmodels_customers.sql
Query OK, 0 rows affected (0.01 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Query OK, 0 rows affected (0.04 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 122 rows affected (0.01 sec)
Records: 122 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.00 sec)
Ouery OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.01 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Ouery OK, 0 rows affected (0.00 sec)
```

RUN classicmodels employees.sql

```
mysql> source /home/rs7/Downloads/classicmodels/classicmodels_employees.sql
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
```

```
Ouery OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.04 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 23 rows affected (0.01 sec)
Records: 23 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.00 sec)
```

RUN classicmodels_offices.sql

```
mysql> source /home/rs7/Downloads/classicmodels/classicmodels_offices.sql
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Query OK, 0 rows affected (0.01 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.02 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Ouery OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.01 sec)
Query OK, 7 rows affected (0.00 sec)
Records: 7 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.01 sec)
Query OK, 0 rows affected (0.00 sec)
```

RUN classicmodels_orderdetails.sql

```
mysql> source /home/rs7/Downloads/classicmodels/classicmodels_orderdetails.sql
Query OK, 0 rows affected (0.01 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
```

```
Ouery OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.03 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 2996 rows affected (0.07 sec)
Records: 2996 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.00 sec)
```

RUN classicmodels orders.sql

```
mysql> source /home/rs7/Downloads/classicmodels/classicmodels orders.sql
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Query OK, 0 rows affected (0.04 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 326 rows affected (0.01 sec)
Records: 326 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.01 sec)
Query OK, 0 rows affected (0.00 sec)
```

RUN classicmodels_payments.sql

```
mysql> source /home/rs7/Downloads/classicmodels/classicmodels_payments.sql
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
```

```
Ouery OK, 0 rows affected (0.02 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.01 sec)
Query OK, 273 rows affected (0.00 sec)
Records: 273 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.00 sec)
```

RUN classicmodels_productlines.sql

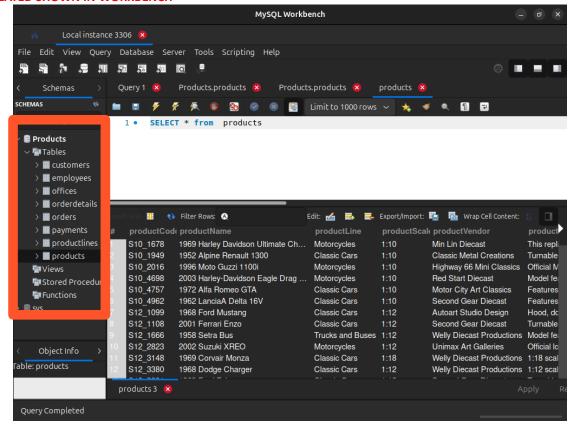
```
mysql> source /home/rs7/Downloads/classicmodels/classicmodels_productlines.sql
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Query OK, 0 rows affected (0.02 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.01 sec)
Query OK, 7 rows affected (0.00 sec)
Records: 7 Duplicates: 0 Warnings: 0
Ouery OK, 0 rows affected (0.00 sec)
Ouery OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
```

RUN classicmodels_products.sql

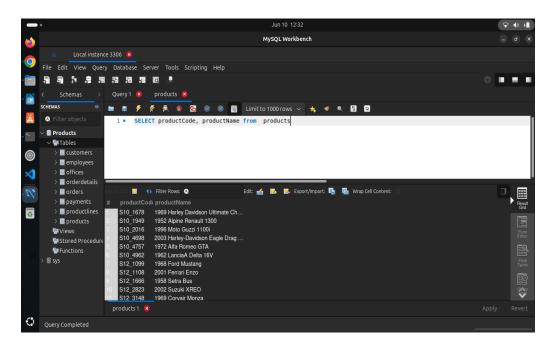
```
mysql> source /home/rs7/Downloads/classicmodels/classicmodels_products.sql
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.01 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Ouery OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.03 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
```

```
Query OK, 0 rows affected (0.00 sec)
Query OK, 110 rows affected (0.01 sec)
Records: 110 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.00 sec)
```

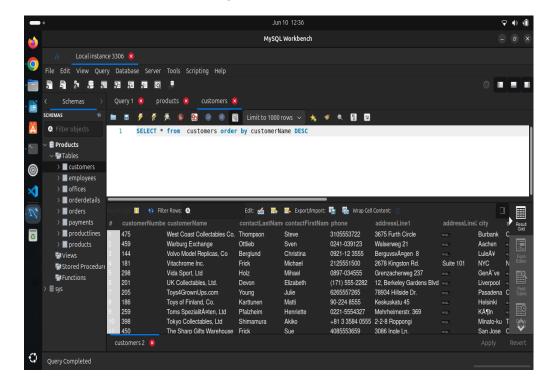
TABLES CREATED SHOWN IN WORKBENCH



- Execution of all the queries
 - Q1. Write the query to get only the product Code and product name from the products table.
 - SELECT productCode, productName from products

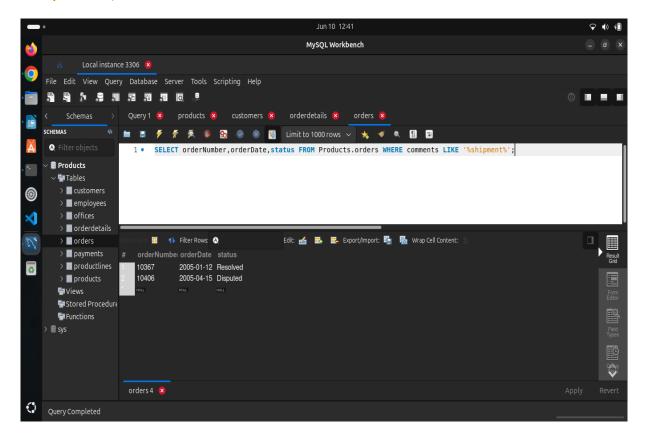


- Q2. Write the query to arrange the customer details based on the country name in descending order.
 - SELECT * from customers order by customerName DESC



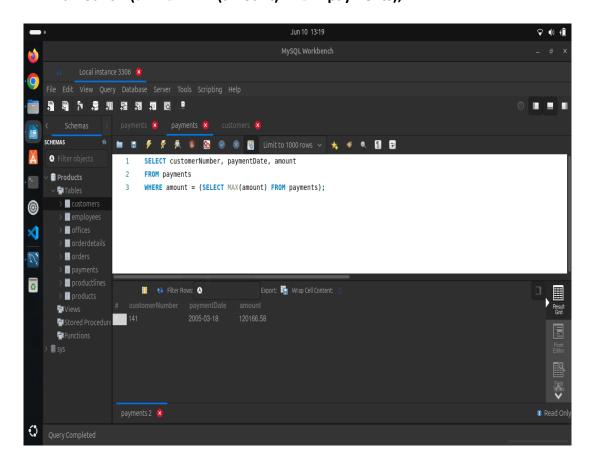
Q3. Write the query to find the order number, order date, and status for the customers having comments about shipment.

SELECT orderNumber,orderDate,status **FROM** Products.orders **WHERE** comments **LIKE** '%shipment%';



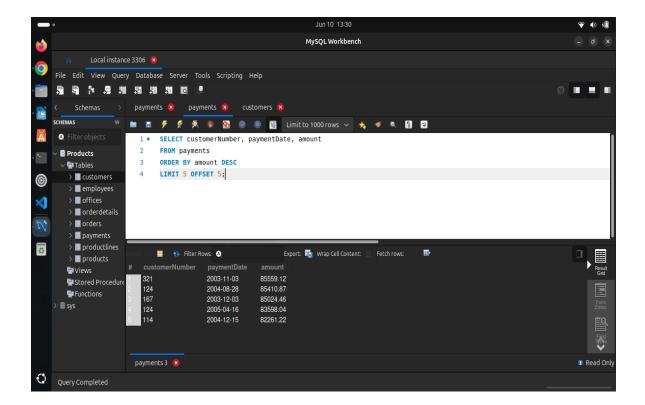
Q4. Write the query to find the customer who has made the highest payment along with the payment date.

SELECT customerNumber, paymentDate, amount
FROM payments
WHERE amount = (SELECT MAX(amount) FROM payments);



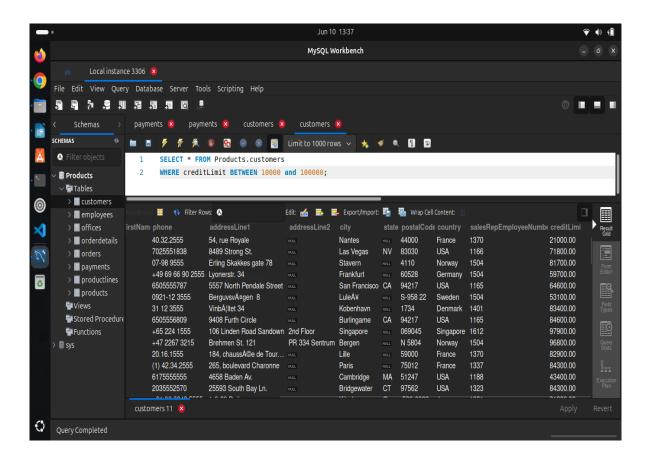
Q5.I have a list of the top five customers who made the highest payment and write a query to find the next top five customers who made the highest payment.

SELECT customerNumber, paymentDate, amount FROM payments
ORDER BY amount DESC
LIMIT 5 OFFSET 5;



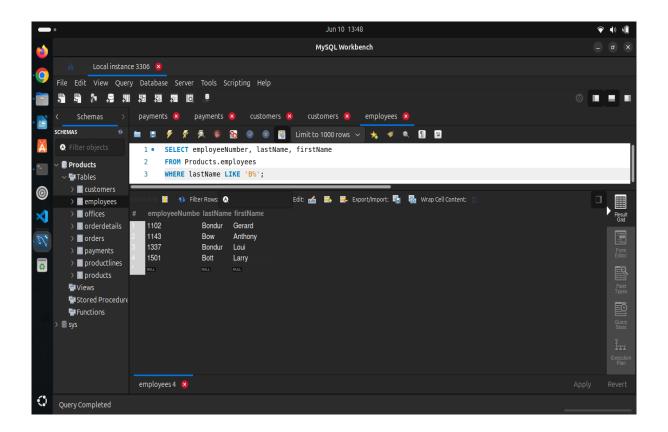
Q6. Write the query to find the customer details whose credit limit is between 10,000 to 1,00,000.

SELECT * FROM Products.customers WHERE creditLimit BETWEEN 10000 and 100000;



Q7. Write the query to get the Employee number, lastname, and first name from the employees' table whose last name starts with 'B'.

SELECT employeeNumber, lastName, firstName FROM Products.employees WHERE lastName LIKE 'B%';



Q8. write a query to select the order whose total amount is greater than 50,000.

SELECT o1.*, totalAmount FROM orderdetails o1 JOIN(

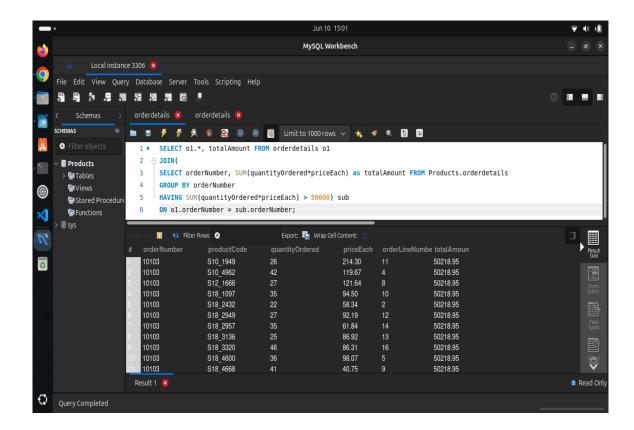
SELECT orderNumber, SUM(quantityOrdered*priceEach) as totalAmount

FROM Products.orderdetails

GROUP BY orderNumber

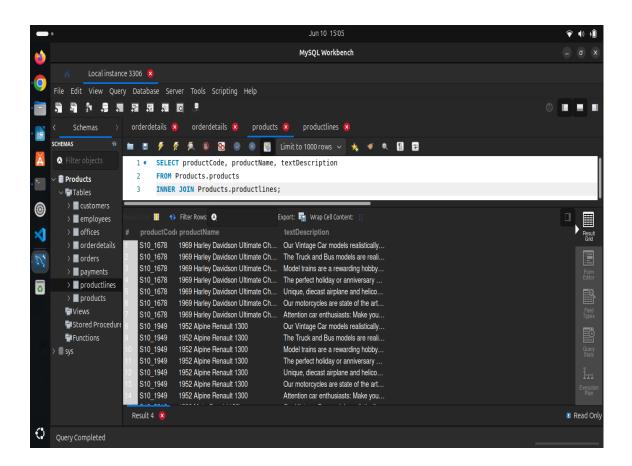
HAVING SUM(quantityOrdered*priceEach) > 50000) sub

ON o1.orderNumber = sub.orderNumber;



Q9. Write the query to find the productcode, product name & text description from the tables products and product lines.

SELECT productCode, productName, textDescription FROM Products.products
INNER JOIN Products.productlines;



Q10. Write the query to get the customer number, customer name, order number, status from the tables order, payments, and customers who have no order.

SELECT c1.customerNumber, customerName, orderNumber, status

FROM Products.customers c1

INNER JOIN Products.payments

INNER JOIN Products.orders

