Refer the following ERD and answer all the questions in this worksheet. You have to write the queries using

mysql for the required Operation.

 Customers: stores customer's data.

 Products: stores a list of scale model cars.

 ProductLines: stores a list of product line categories.

 Orders: stores sales orders placed by customers.

 OrderDetails: stores sales order line items for each sales order.

 Payments: stores payments made by customers based on their accounts.

 Employees: stores all employee information as well as the organization structure such as who reports to whom.

 Offices: stores sales office data.

1. Write SQL query to create table Customers.

A. cursor.execute("CREATE TABLE Customers (customerNumber INT PRIMARYKEY, customerName concat(FirstName," ",LastName) , phone INT, addressLine1 VARCHAR , addressLine2 VARCHAR, city VARCHAR, state VARCHAR, poatalcode VARCHAR, country VARCHAR , salesrep VARCHAR, creditlimit INT , FOREIGN KEY (salesrep) REFERENCES Employees (EmployeeNumber))")

2. Write SQL query to create table Orders.

A. cursor.execute("CREATE TABLE Orders (OrderNumber VARCHAR PRIMARY KEY, orderDate DATE, requiredDate DATE , shippedDate DATE, Status VARCHAR, Comments VARCHAR, customerNumber INT, FORGIEN KEY customerNumber REFERANCES Customers(customerNumber))")

3. Write SQL query to show all the columns data from the Orders Table.

A. data = cursor.execute("SELECT * from Orders")

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For row in data:
        Print (row)
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4. Write SQL query to show all the comments from the OrdersTable.

A. comts = ("SELECT Orders.Comments FROM Orders")

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comments = cursor.execute(comts)
for row in comments:
    Print (row)
```

5. Write a SQL query to show orderDate and Total number of orders placed on that date, from Orderstable.

A. Odr = (“SELECT ‘For’, orderDate, COUNT, orderNumber, FROM orders”)

Orders = cursor.execute(Odr)

For row in Orders:

Print (row)

6. Write a SQL query to show employeNumber, lastName, firstName of all the employees from employeestable.

A Emp= (Select employeeNumber, lastname, firstName FROM employees)

Emp_info = cursor.execute(Emp)

For row in Emp_info:

Print (row)

7. Write a SQL query to show all orderNumber, customerName of the person who placed the respective order.

A. Cus_ord.cursor.execute (“SELECT orderNumber FROM Orders WHERE customeNumber = (“SELECT customerName FROM Customers”)”)

Cus_ord.fetchall()

8. Write a SQL query to show name of all the customers in one column and salerepemployee name inanother column.

A.Cus_Emp.cursor.execute((“SELECT customerName FROM customers”) JOIN(“SELECT employeeName FROM employees”))

Cus_Emp.fetchall()

9. Write a SQL query to show Date in one column and total payment amount of the payments made on that date from the payments table.

A. Payments.cursor.execute(“SELECT paymentDate, amount FROM payments”)

Payments.fetchall()

10. Write a SQL query to show all the products productName, MSRP, productDescription from the productstable.

A. . Products.cursor.execute(“SELECT productName, MSRP, productDescription FROM products”)

Products.fetchall()

11. Write a SQL query to print the productName, productDescription of the most ordered product.

A. MaxOrdProduct.cursor.execute("SELECT productName , productDescription FROM products WHERE productcode FROM products = productcode FOR MAX(quantityordered) FROM orderdetails")

MaxOrdProduct.fetchone()

12. Write a SQL query to print the city name where maximum number of orders were placed.

A. MaxCity.cursor.execute("SELECT city FROM customers WHERE customername FROM customers = customerName FOR MAX COUNT (orderNumber) FROM orderdetails")

MaxCity.fetchone()

13. Write a SQL query to get the name of the state having maximum number of customers.

A. SMaxCus.cursor.execute("SELECT state FROM customers FOR MAX (customername) FROM customers ")

SMaxCus.fetchone()

14. Write a SQL query to print the employee number in one column and Full name of the employee in the second column for all the employees.

A. Emps.cursor.execute("SELECT employeeNumber, CONCAT("firstName" +" "+"lastName") FROM employee")

Emps.fetchall()

15. Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered × priceEach)

A.TotalPay= quantityOrdered*priceEach

Cus_pay.cursor.execute ("SELECT orderNumber FROM Orders WHERE customerNumber = ("SELECT customerName FROM Customers") FOR orderNumber = customerNumber in Orders ("SELECT quantity*priceEach = TPay ")")

Cus_ord.fetchall()

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