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 orderDate, COUNT(orderNumber) FROM orders GROUP BY orderDate”)

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 , SUM(amount) FROM payments GROUP BY paymentDate ”)

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 WHERE state = MAX (COUNT (state)) 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. Cus_pay.cursor.execute (“SELECT orders.orderNumber , customers.customerName , orderdetails.Total Payment(quantityOrdered × priceEach) FROM orders

RIGHT JOIN orders ON customers.customerNumber = order.customerNumber

LEFT JOIN orders ON orderdetails.orderNumber = order.orderNumber

Cus_pay.fetchall()