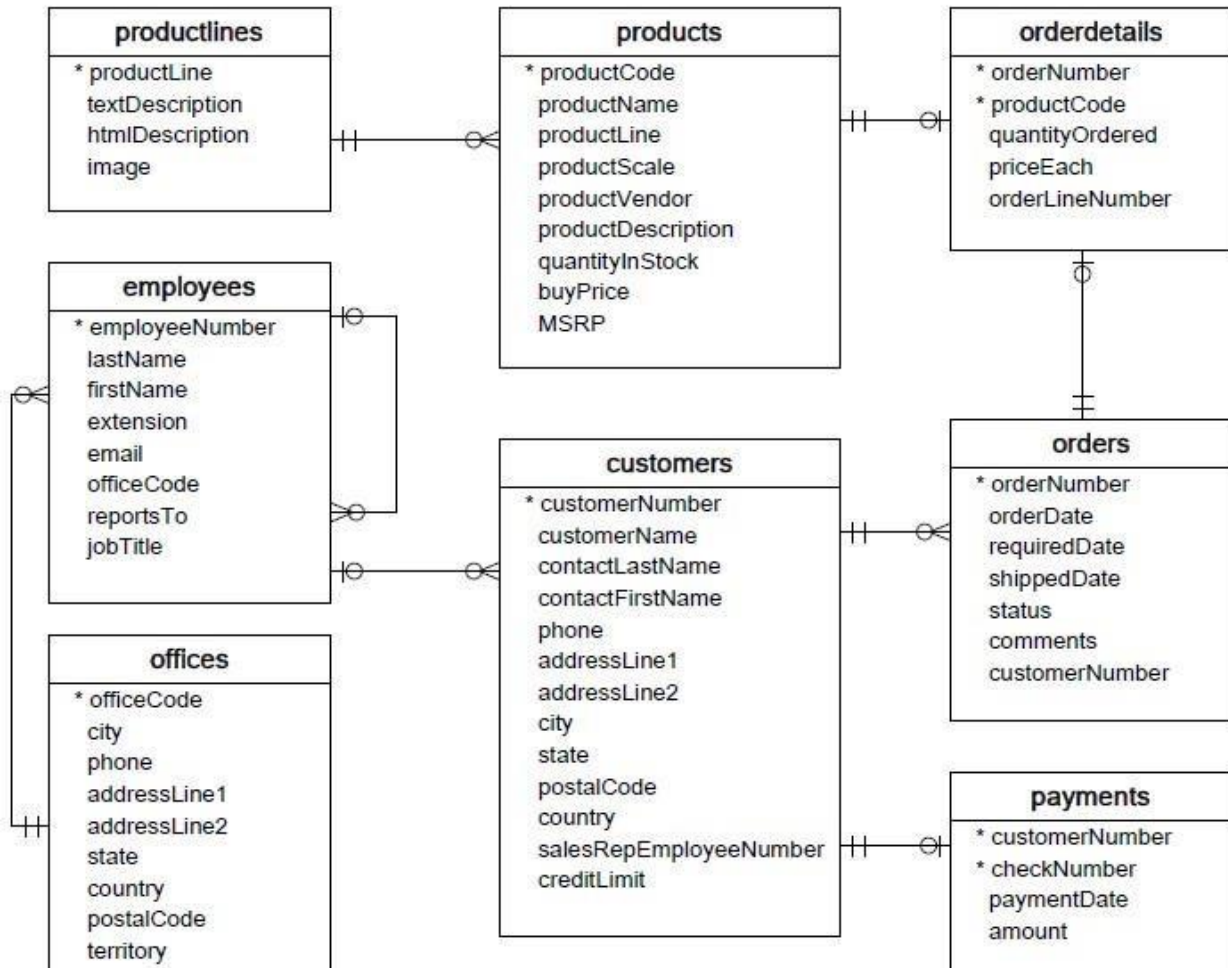# WORKSHEET 3 SQL

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.**
 Ans:
 CREATE TABLE Customers (
  customerNumber int NOT NULL PRIMARY KEY,
  customerName varchar(45) NOT NULL,
  contactLastName varchar(35) NOT NULL,
  contactFirstName varchar(45) NOT NULL,
  phone int,
  addressLine1 varchar(45) NOT NULL,
  addressLine2 varchar(45) NOT NULL,
  city varchar(35) NOT NULL,

state varchar(35) NOT NULL,
    postalCode int NOT NULL,
    country varchar(45) NOT NULL,
    salesRepEmployeeNumber int NOT NULL,
    creditLimit int NOT NULL
);

2. Write SQL query to create table **Orders.**
Ans:
 CREATE TABLE Orders (
  orderNumber int NOT NULL PRIMARY KEY,
  orderDate date NOT NULL,
  requiredDate date NOT NULL,
  shippedDate date NOT NULL,
  status varchar(35) NOT NULL,
  comments varchar(200) NOT NULL,
  customerNumber int,
  FOREIGN KEY (customerNumber) REFERENCES Customers(customerNumber)
);

3. Write SQL query to show all the columns data from the **Orders** Table.
Ans:
 SHOW COLUMNS FROM Orders;

4. Write SQL query to show all the comments from the **Orders** Table.
Ans:
SELECT comments FROM Orders;

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

6. Write a SQL query to show employeNumber, lastName, firstName of all the employees from **employees** table.
Ans:
 SELECT employeNumber, lastName, firstName FROM employees;

7. Write a SQL query to show all orderNumber, customerName of the person who placed the respective order.
8. Write a SQL query to show name of all the customers in one column and salerepemployee name in another column.

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.
10. Write a SQL query to show all the products productName, MSRP, productDescription from the **products** table.
Ans: SELECT productName, MSRP, productDescription FROM products;

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

12. Write a SQL query to print the city name where maximum number of orders were placed.
13. Write a SQL query to get the name of the state having maximum number of customers.
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.
15. Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered × priceEach).