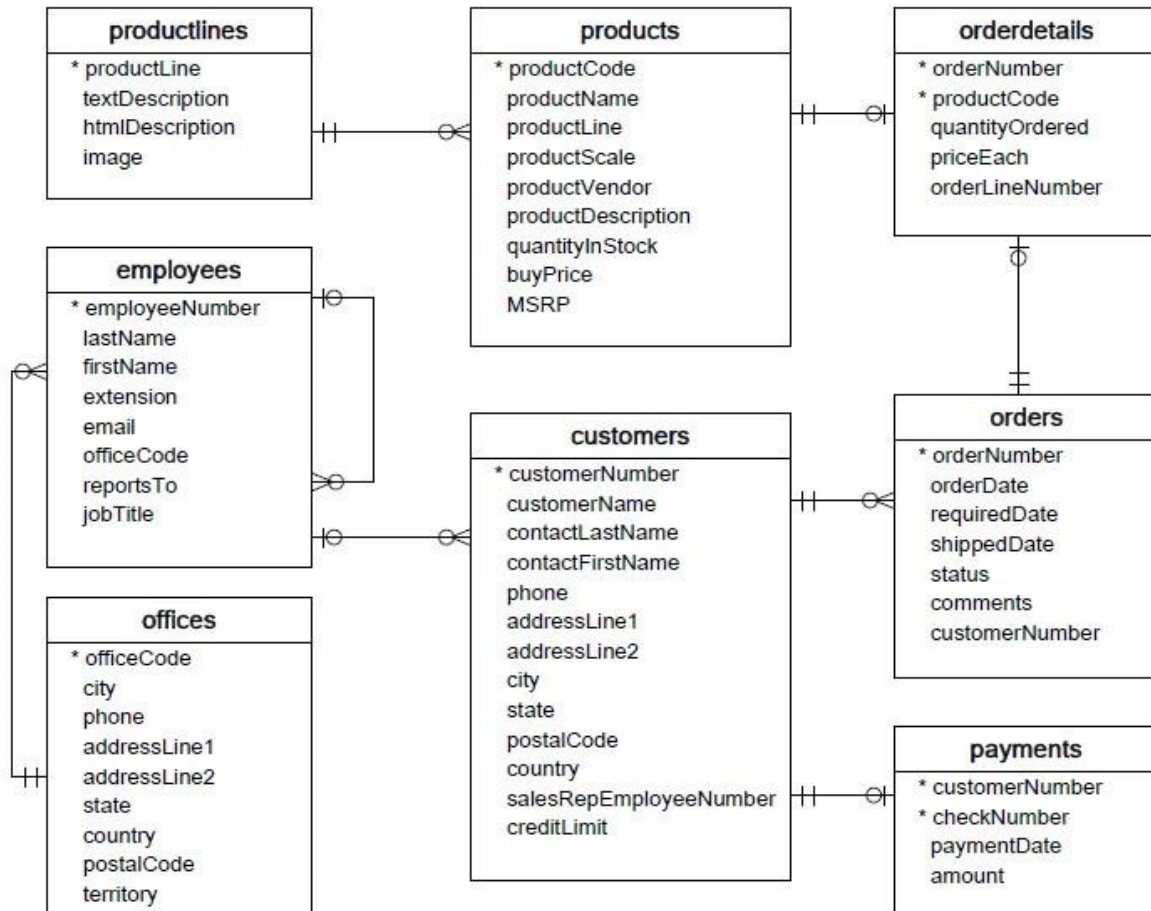# WORKSHEET 3 SQL

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.**

ANSWER: CREATE TABLE Customers (Customer_number INT, Customer_name varchar(45),
                              ContactlastName Varchar(45), ContactFirstName Varchar(45),
               phone Int, addressLine1 varchar(50), addressLine2 varchar(50),
               City varchar(20), State varchar(20), Postalcode INT, Country Varchar(30),
               SalesRepEmployeeNumber INT, Credit_limit INT, Primary Key(Customer_number));

2. Write SQL query to create table **Orders.**
   ANSWER: CREATE TABLE Orders (OrderNumber INT, OrderDate DATE, RequiredDate DATE,
   ShippedDate DATE, Statu Varchar(45), Comments Varchar(45),Customer_number INT);

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

ANSWER: SELECT * FROM ORDERS;

4. Write SQL query to show all the comments from the **Orders** Table.

ANSWER: SELECT Comments FROM ORDERS;

5. Write a SQL query to show orderDate and Total number of orders placed on that date, from **Orders** table.
   ANSWER: SELECT OrderDate, Statu, Count(OrderNumber) FROM ORDERS
           WHERE Statu = 'Placed'
           GROUP BY OrderDate, Statu;

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

ANSWER: SELECT employeeNumber, LastName, FirtsName FROM Employees ;

7. Write a SQL query to show all orderNumber, customerName of the person who placed the respective order.
ANSWER: select Orders. orderNumber, Customers. customerName from Orders,Customers ;

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

   ANSWER: select customerName, saleRepEmployeeNumber from Customers ;

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.
ANSWER: SELECT sum(amount),paymentDate from payments
GROUP BY PayementDate ;

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

ANSWER: SELECT productName, MSRP, productDescription FROM Products;

11. Write a SQL query to print the productName, productDescription of the most ordered product.
ANSWER: SELECT productName, productDescription FROM Products
order by count(productName) DESC ;

12. Write a SQL query to print the city name where maximum number of orders were placed.
ANSWER: SELECT City , count(orderNumber) FROM Customers, Orders
GROUP BY city
ORDER BY count(orderNumber);

13. Write a SQL query to get the name of the state having maximum number of customers.
ANSWER: SELECT state, count(customer_Number) from Customers
GROUP BY state
ORDER BY count(customer_Number);

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.
ANSWER: SELECT employeeNumber, concat(firstName, lastName) as fullName from employees ;

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

ANSWER: select customer Name , orderNumber, quantityOrdered *priceEach as TotalAmount from customers,orderdetails;