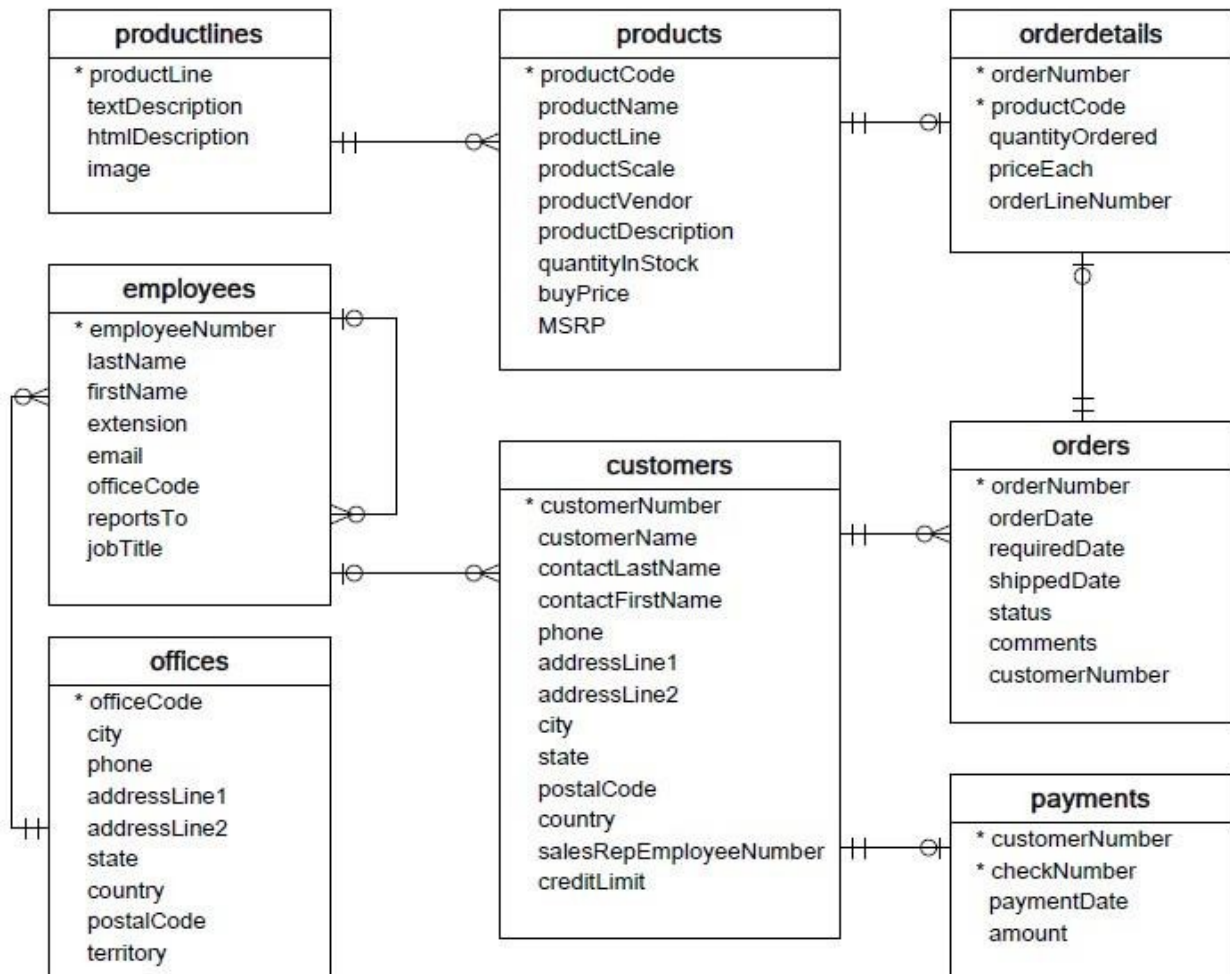# WORKSHEET 3 SQL

**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.**
```
CREATE TABLE Customers (CustNo int(6),
    CustName varchar(25),
    LastName varchar(25),
    FirstName varchar(25),
    Phone int(10),
    AddressLine1 varchar(255),
    AddressLine2 varchar(255),
    City varchar(25),
    State varchar(25),
    ZIP int(10),
Country varchar(25),
```

```
        SalesRepEMPID int(10),
        CredLimit int(15),

    );
```
2. Write SQL query to create table **Orders.**
```
CREATE TABLE Orders (
        ord_no int(10),
        ord_dt (date),
        req_dt (date),
        ship_dt (date),
        status varchar(255),
        comments varchar(255),
        CustNo varchar(30),

);
```

3. Write SQL query to show all the columns data from the **Orders** Table.
   Ans.) SELECT  * 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.
   Ans.) `SELECT COUNT(*) FROM Orders WHERE ord_dt ='2020-08-20' by desc;`

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.
Ans.) `SELECT lastName, firstName, FROM customers where LEFT OUTER JOIN Orders`

ON ord_no=23644,`order by desc;`

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

Ans.) SELECT `SalesRepEMPID, CustName 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.

Ans.)

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.
Ans.) SELECT productName, productDescription count(*) as Most_ordered from products
group by productCode
order by count(*) desc

12. Write a SQL query to print the city name where maximum number of orders were placed.
Ans.) SELECT city MAX(ord_no) AS HighestOrder FROM customer GROUP BY CustNo ORDER BY MAX(ord_no) DESC;

13. Write a SQL query to get the name of the state having maximum number of customers.
SELECT state MAX(CustNo) AS HighestOrder FROM customer GROUP BY CustNo ORDER BY MAX(ord_no) DESC;

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.
Ans.) SELECT employeNumber FROM employees;
SELECT concat(firstName,' ',lastName) AS EmployeName 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).

Ans.)