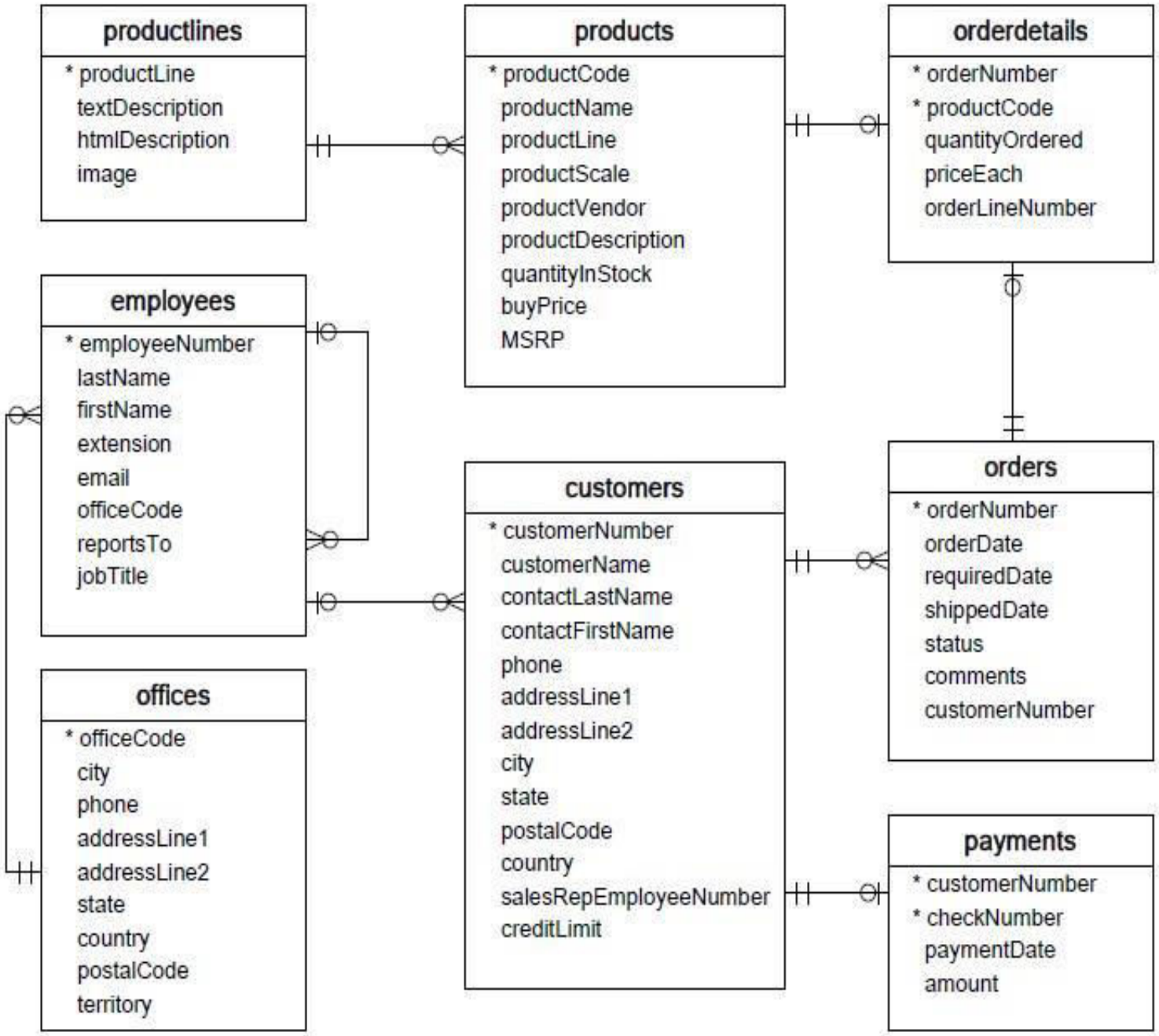
WORKSHEET 3 SQL

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 (
    Customernumber,
     Customername,
     Contactlastname,
     Contactfirstname,
     Phone,
     Addressline1,
     Addressline2,
     City,
     State,
     Postalcode,
     Country,
     Salesrepemployeenumber,
     Credictlimit,
         );
```

2. Write SQL query to create table **Orders.**

```
CREATE TABLE Orders(
         Ordernumber,
         Orderdate,
         Requireddate,
         Shippeddate,
         Status,
         Comments,
         Coustomernumber,
         );
```

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

```
DESCRIBE Orders;
SHOW COLUMNS FROM Orders;
```

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

```
SELECT Comments FROM Orders
```

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

```
SELECT Orderdate,
COUNT(Customernumber)
AS num_orders ,
SUM(ordernumber)
AS daily_total
FROM [Orders]
GROUP BY Orderdate
```

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

```
SELECT   employeNumber, lastName, firstName FROM employees
```

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

SELECT orderNumber FROM Orders and customerName FROM Customers GROUPBY coustomernumber

8. Write a SQL query to show name of all the customers in one column and salerepemployee name in another column.
   SELECT Salerepemployee FROM Orders and customerName FROM Customers GROUPBY coustomernumber
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.
   SELECT Orderdate FROM Orders and amount FROM payments where Orderdate=paymentdate GROUPBY coustomernumber

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

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

```
SELECT      productName, productDescription
COUNT(*)
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.

```
SELECT   city
FROM Customer
INNER JOIN
(SELECT TOP 2 WITH TIES Customernumber, COUNT(Ordernumber) as Count
FROM Orders
GROUP BY Customernumber
ORDER BY Count DESC) ON .Customernumber =.ordernumber
```

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

```
SELECT COUNT(Customernumber), state
FROM Customers
GROUP BY state
HAVING COUNT(Customernumber) > 5
ORDER BY COUNT(Customernumber) 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.

```
SELECT employeenumber,
    RTRIM(LTRIM(
        CONCAT(
            COALESCE(FirstName + ' ', '')
            , COALESCE(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).

```
SELECT , orderNumber, customer Name
COUNT(Orders.Ordernumber) AS TotalOrders,
SUM(quantity ordered,priceeach) AS TotalAmount
FROM [Orderdetails]
INNER JOIN (SELECT Ordernumber, Sum(Quantity*SalePrice) AS totalAmount
```