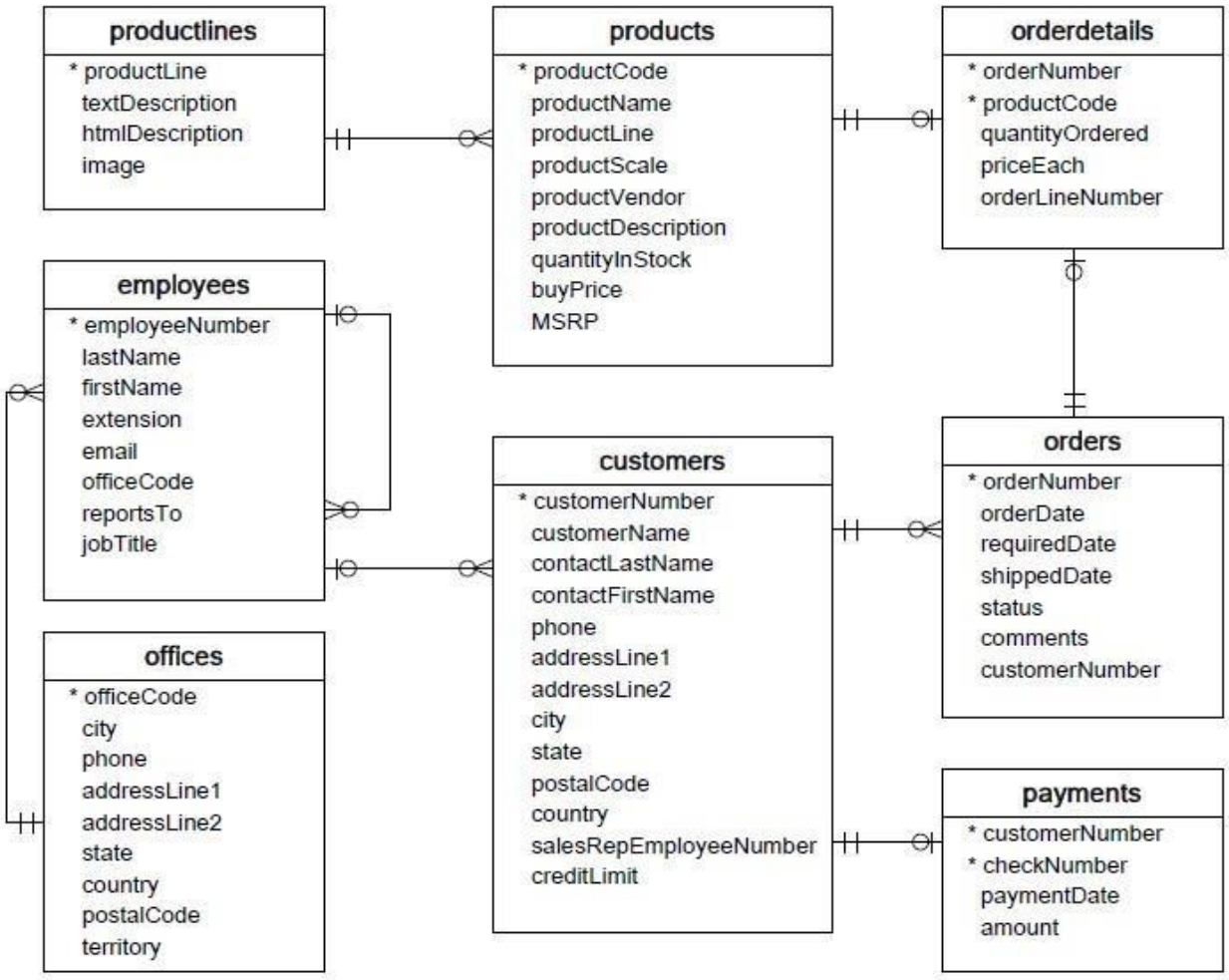
WORKSHEET 3 SQL

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 INT NOT NULL,
        customerName  VARCHAR(20),
        contactLastName  VARCHAR(20),
        contactFirstName  VARCHAR(20),
        phone  INT(10),
        addressLine1  VARCHAR(20),
        addressLine2  VARCHAR(20),
        city VARCHAR(30),
        state  VARCHAR(20),
        postalCode INT(10),
        country  VARCHAR(20),
        salesRepEmployeeNumber INT
        creditLimit INT,
        PRIMARY KEY (customerNumber)
);
```

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

```
CREATE TABLE orders(
        orderNumber INT NOT NULL,
        orderDate  INT(20),
        requiredDate  INT(20),
        shippedDate  INT(20),
        status  VARCHAR(20),
        comments  VARCHAR(20),
        customerNumber INT NOT NULL,
        PRIMARY KEY (orderNumber)
);
```

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

```
SELECT * 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 date(orderDate) , SUM(orderNumber) AS daily_total FROM orders
    WHERE orderDate>=date_sub(current_date, INTERVAL 31 DAY)
        GROUP BY date(orderDate);
```

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

```
SELECT employeName,lastNmae,firstName FROM employees;
```

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

```
SELECT orders.orderNumber , customers.customerName FROM orders INNER JOIN customers
ON orders.customerNumber = customers.customerNumber  ;
```

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

```
SELECT customers.customerName, employees.firstName FROM customers INNER JOIN employees
ON employees.employeeNumber = customers.salesRepEmployeeNumber  ;
```

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.

```
SELECT productName,  MSRP,  productDescription FROM products  ;
```

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

```
SELECT products.productName,  products.productDescription FROM orderdetails INNER JOIN products ON orderdetails.productCode = products.productCode GROUP BY orderdetails.productCode ORDER BY COUNT(orderdetails.productcode) desc  limit  1\G ;
```

12. Write a SQL query to print the city name where maximum number of orders were placed.

```
SELECT customers.city, COUNT(orders.orderNumber) as c FROM orders INNER JOIN customers ON orders.customersNumber=customers.customerNumber GROUP BY customers.city ORDER BY c desc limit 1;
```

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

```
SELECT state, COUNT(customers.customerName) as c FROM 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.

```
SELECT employeeNumber , CONCAT(lastName , firstName) 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 customerName, orderNumber, (quantityOrdered*priceEach) FROM customers c INNER JOIN orders o ON c.customerNumber = o.customerNumber INNER JOIN orderDetails d ON d.orderNumber = o.orderNumber ;
```