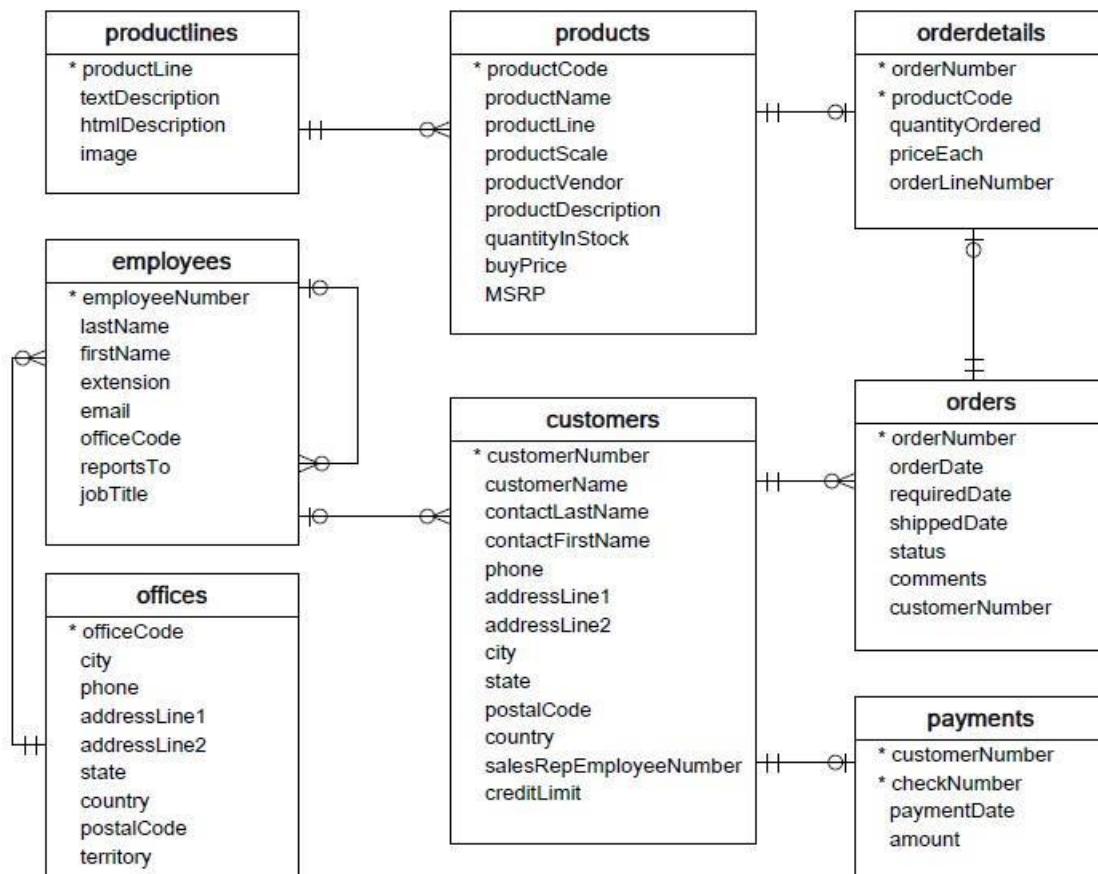


ASSIGNMENT-3

SQL

ANSWER SHEET

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 AUTO_INCREMENT PRIMARY_KEY,
customerName VARCHAR(255),
contactLastName VARCHAR(255),
contactFirstName VARCHAR(255),
phone VARCHAR(20),
addressLine1 VARCHAR(255),
addressLine2 VARCHAR(255),
city VARCHAR(255),
state VARCHAR(255),
postalCode VARCHAR(255),
country VARCHAR(255),
salesRepEmployeeNumber INT,
creditLimit DECIMAL(20,3)
)
```

2. Write SQL query to create table Orders.

```
CREATE TABLE Orders
(
orderNumber INT AUTO_INCREMENT PRIMARY_KEY,
orderDate DATE,
requiredDate DATE,
shippedDate DATE,
status TEXT,
comments TEXT,
customerNumber INT,
FOREIGN KEY fk_customers(customerNumber)
References customers(customerNumber)
)
```

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 orderDate,COUNT(*) FROM Orders ;
```

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

```
SELECT employeeNumber,lastName,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, employees.lastName
CONCAT(firstName, ' ', lastName ) AS fullname
FROM customers
JOIN employees ON
customers.salesrepEmployeeNumber=employees.salesEmployeeNumber;
```

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 paymentDate, SUM(amount) AS totalPayment
FROM payment ;
```

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 TOP 1 productName, productDescription  
FROM products ORDER BY productName ;
```

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

```
SELECT city , COUNT(city) AS citycount  
MAX(citycount)  
FROM customers  
GROUP BY city
```

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

```
SELECT state , COUNT(state) AS statecount  
MAX(statecount)  
FROM customers  
GROUP BY state
```

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,firstName,lastName  
CONCAT(firstName, ' ',lastName) AS Fullname  
FROM employee
```

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, SUM(quantityOrdered * priceEach)AS  
"totalamount"
```

```
FROM customers NATURAL JOIN orders NATURAL JOIN orderDetails
```