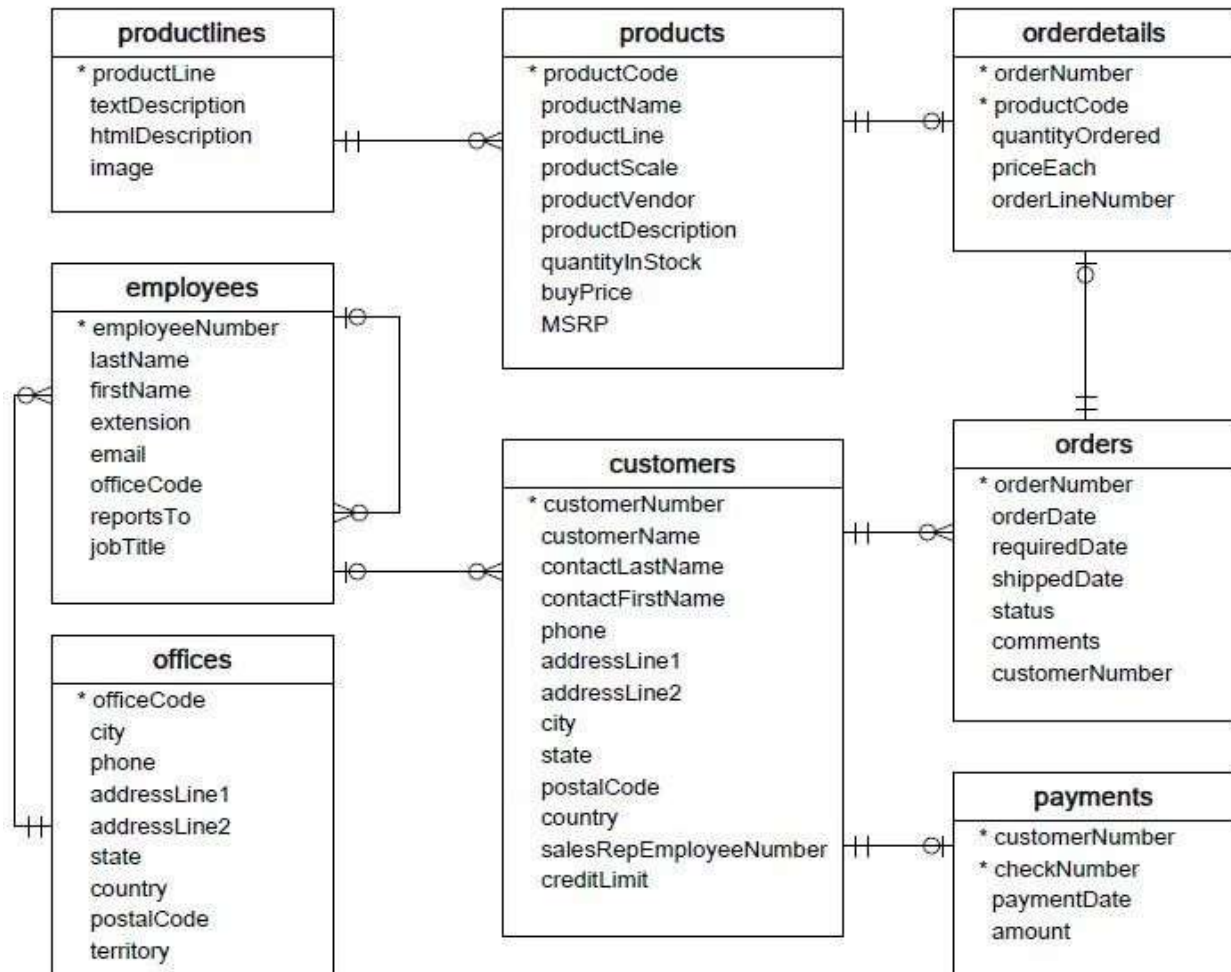


## WORKSHEET 3 SQL

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 primary key,
    customerName varchar(30),
    contactLastName varchar(30),
    contactFirstName varchar(30),
    phone int,
    addressLine1 varchar(60),
    addressLine2 varchar(60),
    city varchar(30),

```

```
state varchar(30),
postalCode int,
country varchar(30),
salesRepEmployeeNumber int,
creditLimit int
);
```

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

```
CREATE TABLE Orders
(
orderNumber int primary key,
orderDate date,
requiredDate date,
shippedDate date,
status varchar(30),
comments varchar(30),
customerNumber int
);
```

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,quantityordered
FROM orders,orderdetails
WHERE orders.orderNumber=orderdetails.orderNumber;
```

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 orderNumber, customerName
FROM orders,customers where orders.orderNumber=customers.orderNumber;
```

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

```
SELECT customerName,concat(firstName,' ',lastName)
FROM customers,employees
WHERE customers.saleRepEmployeeNumber=employees.employeeNumber;
```

---

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)
FROM payments;
```

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

```
SELECT paymentDate,sum(amount) productName, MSRP, productDescription
FROM products;
```

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

```
SELECT productName, productDescription
FROM products,orderDetails
ORDER BY quantityOrdered
WHERE products.productCode= orderDetails. productCode DESC limit 1;
```

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

```
SELECT city
FROM customers
GROUP BY city
ORDER BY count(*) DESC limit 1;
```

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

```
SELECT state
FROM customers
GROUP BY state
ORDER BY count(*) DESC limit 1;
```

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(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).

```
SELECT orderdetails.orderNumber,customers.customerName, orderdetails .quantityOrdered*
orderdetails.priceEach AS Totalamount
FROM ((orders
INNER JOIN customers ON orders.customerNumber = customers.customerNumber)
INNER JOIN orderdetails ON orders.orderNumber=orderdetails.orderNumber);
```

---