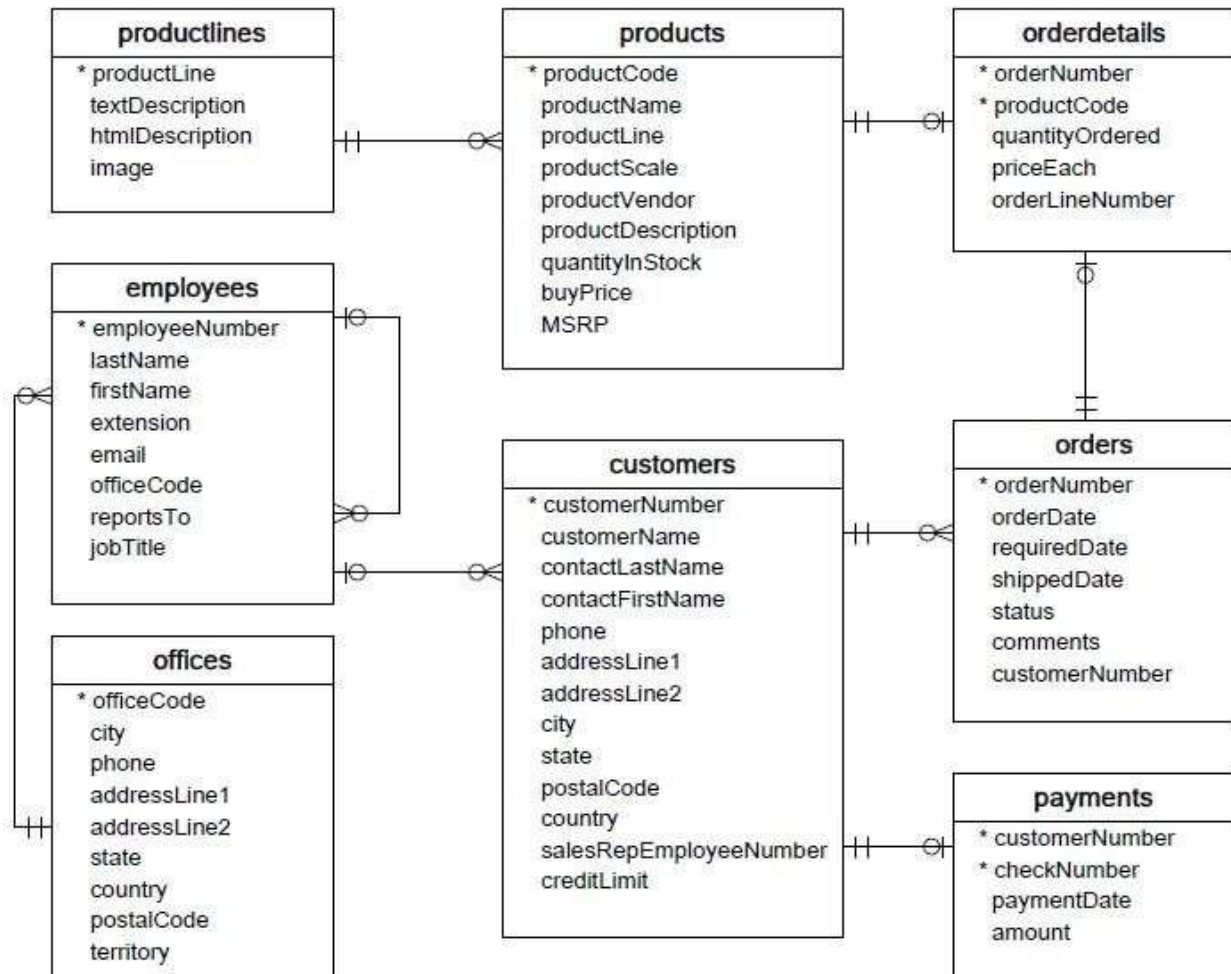


WORKSHEET 3 SQL

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**.

Ans: create table Customers(
 customerNumber int primary key,
 customerName varchar,
 contactLastName varchar,
 contactFirstName varchar,
 phone int,
 addressLine1 varchar,
 addressLine2 varchar,
 city varchar,
 state varchar,
 postalCode int,
 country varchar,

```
salesRepEmployeeNumber varchar,  
creditLimit int);
```

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

Ans: create table orders(
orderNumber int primary key,
orderDate date,
requiredDate date,
shippedDate date,
status varchar,
comments varchar,
customerNumber int,
foreign key (orderNumber) references orderdetails(orderNumber),
foreign key(customerNumber) references customers(customerNumber)
);

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(orderNumber),orderDate from orders GROUP BY orderDate;

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

Ans: SELECT employeeNumber,lastName,firstName from employees;

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

Ans: SELECT orders.orderNumber,customers.customerName from orders,employees ORDER BY orderNumber ASC;

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

Ans: SELECT customers.CustomerName as

“CustomerName,CONCAT(employees.firstName,employees.LastName) salesrepName from customer,employees;

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: select paymentDate,sum(amount) from payments GROUP BY paymentDate;

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 products.productName,products.productDescription from products where max(count(productCode));

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

Ans: select customers.city from customers where max(count(distinct orders.orderNumber));

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

Ans: select state from customers where max(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.

Ans: select employeeNumber,CONCAT(firstName,lastName) employeeName from employees;

15. Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered \times priceEach)

Ans: select orders.orderNumber,customers.customerName,priceEach*quantityOrdered as totalamount
From orderdetails
JOIN customers ON orders,customerName = customer.CustomerNumber
JOIN orderdetails ON orderdetails.orderNumber = order.orderNumber