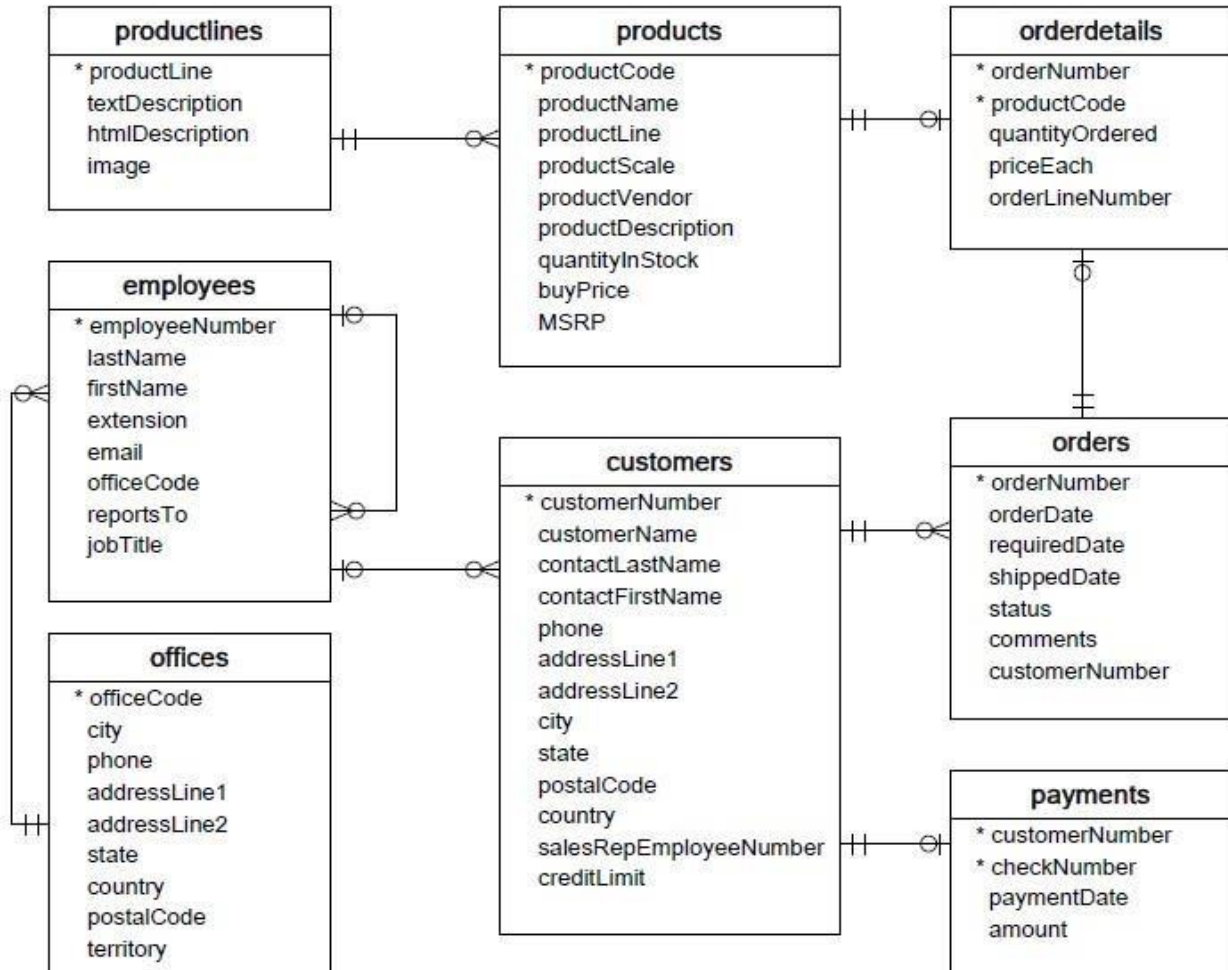


WORKSHEET 3 SQL

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(11) NOT NULL,
customerName varchar(50) NOT NULL,
contactLastName varchar(50) NOT NULL,
contactFirstName varchar(50) NOT NULL,
phone varchar(50) NOT NULL,
addressLine1 varchar(50) NOT NULL,
addressLine2 varchar(50) ,

```

```
city varchar(50) NOT NULL,  
state varchar(50),  
postalCode varchar(15),  
country varchar(50) NOT NULL,  
salesRepEmployeeNumber int(11),  
creditLimit decimal(10,1),  
PRIMARY KEY ( customerNumber ),  
FOREIGN KEY ( salesRepEmployeeNumber ) REFERENCES employees ( employeeNumber )  
);
```

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

```
CREATE TABLE orders (  
  orderNumber int(11) NOT NULL,  
  orderDate date NOT NULL,  
  requiredDate date NOT NULL,  
  shippedDate date,  
  status varchar(15) NOT NULL,  
  comments text,  
  customerNumber int(11) NOT NULL,  
  PRIMARY KEY ( orderNumber ),  
  FOREIGN KEY ( 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,SUM(quantityOrdered) as totalorder from orders,orderdetails  
where orders.orderNumber=orderdetails.orderNumber GROUP BY orderdate;
```

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 customerName,orderNumber from customers,orders where 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 customerName,salesRepEmployeeNumber from customers

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,amount from payments;

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 from products,orderdetails where products.productCode=orderdetails.productCode group by productName order by sum(quantityOrdered) desc limit 1;

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

**select city from customers,orders,orderdetails where
customers.customerNumber=orders.customerNumber and
orders.orderNumber=orderdetails.orderNumber group by city order by
sum(quantityOrdered) 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(customerName)
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,customerName,sum(quantityOrdered * priceEach)
as total from customers,orderdetails,orders where
customers.customerNumber=orders.customerNumber and
orders.orderNumber=orderdetails.orderNumber group by
orderNumber,customerName ;**