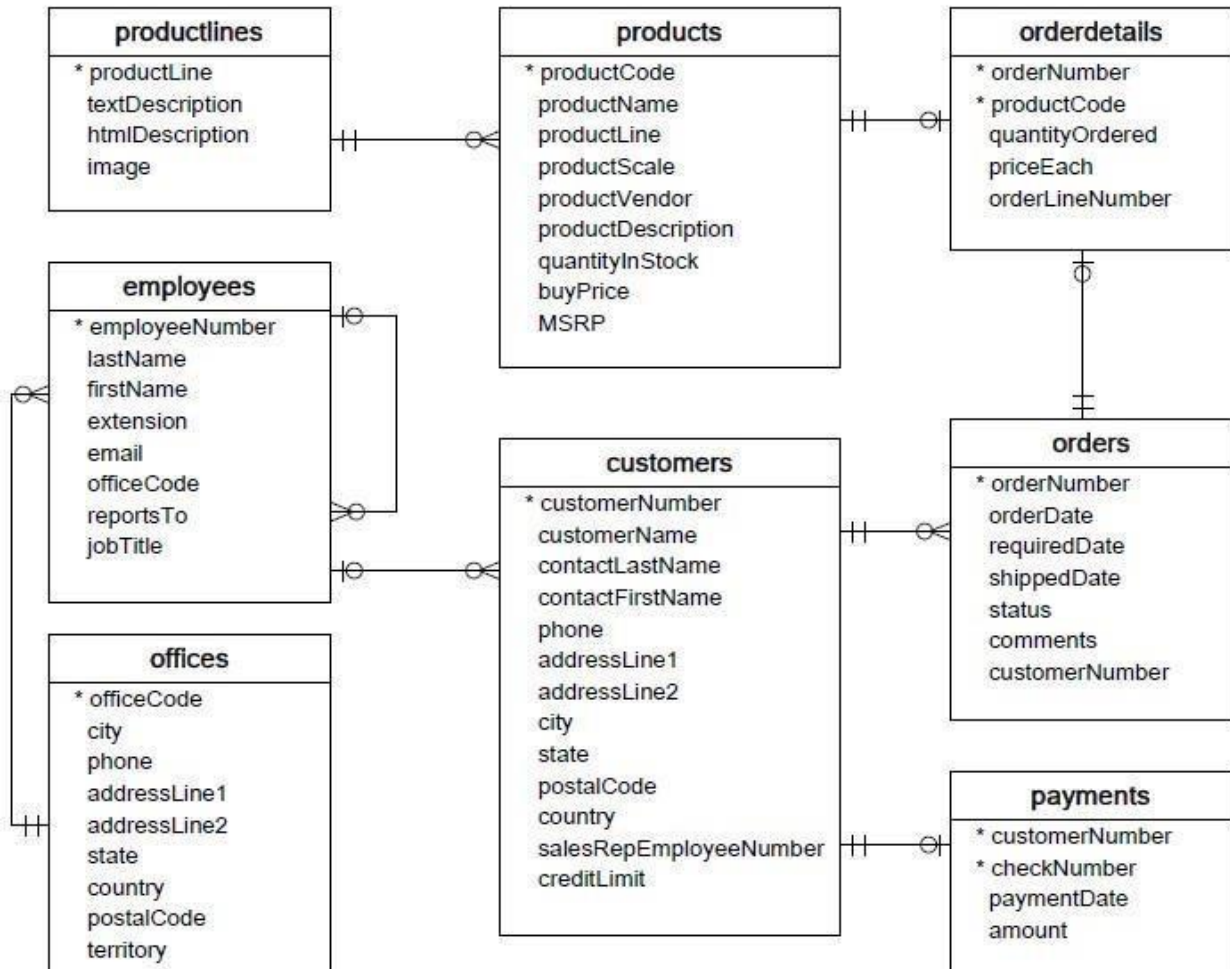


WORKSHEET 3 SQL

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**. **Solution:**

Create table customer(

customerNumber, customerName, contactLastName, contactLastNmae, phone, addressLine1, addressLine2, city, state, postalCode, country, salesRepEmployeeNumber, creditLimit);

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

Solution:

```
Create a table Orders(  
  orderNumber, orderDate, requiredDate, shippedDate,  
  status, comments,  
  customerNumber);
```

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

Solution:

```
Show databases;  
Use orders;  
Show tables;  
Show Orders;  
Select * from Orders;
```

4. Write SQL query to show all the comments from the **Orders** Table.

Solution:

```
Select * from Orders;  
Select * from comments;
```

5. Write a SQL query to show orderDate and Total number of orders placed on that date, from **Orders** table.

Solution:

```
Select * from Orders where orderDate=YYYY-MM-DD
```

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

Solution:

```
Show databases;  
Use employees;  
Show tables;  
Show employees;  
Select * from employees;
```

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

Solution: Use orders;

```
Show tables;  
Show Orders;  
Select * from orderName;  
Select * from customerName;
```

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

Solution:

```
SELECT customerName from table1 RIGHT JOIN table2 ON customerName.table1=table2.saleremployee;
```

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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.

Solution:

```
Select paymentDate from table1  
RIGHT JOIN amount  
from table payments;
```

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

Solution:

```
Select * from productName;  
Select * from MSRP;  
Select * productDescription;
```

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

Solution:

```
Select COUNT (productName , productDescription),  
Product  
From customers  
Group by product  
Order by COUNT (productName, productDescription) Desc;
```

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

```
Select MAX (orderNumbers)  
From city;
```

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

```
Select MAX(customers)  
From state
```