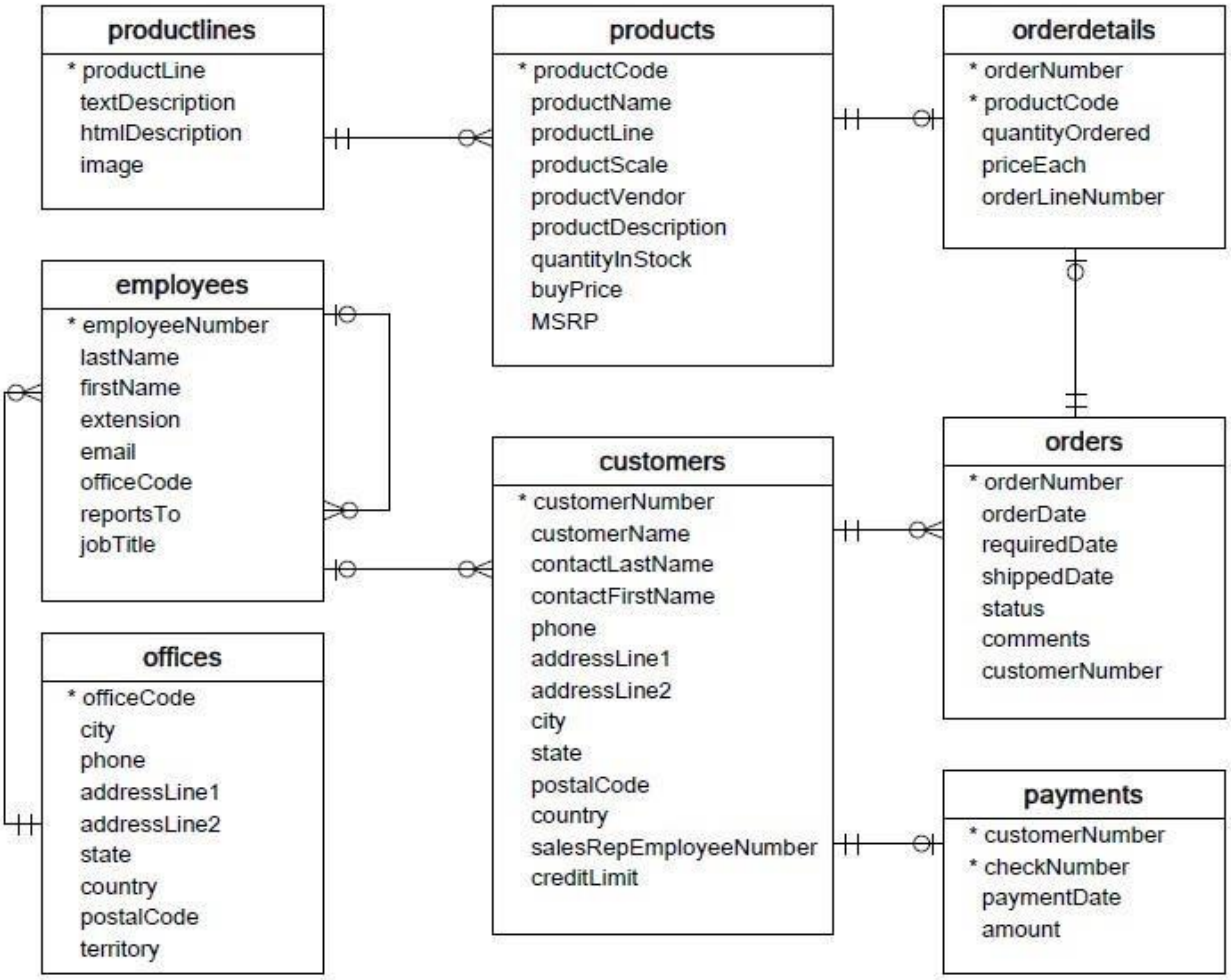
Assignment: Worksheet 3 SQL
Author: Yashshree Bawiskar
Internship Batch: 25

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);
```

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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 employeNumber, 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
```