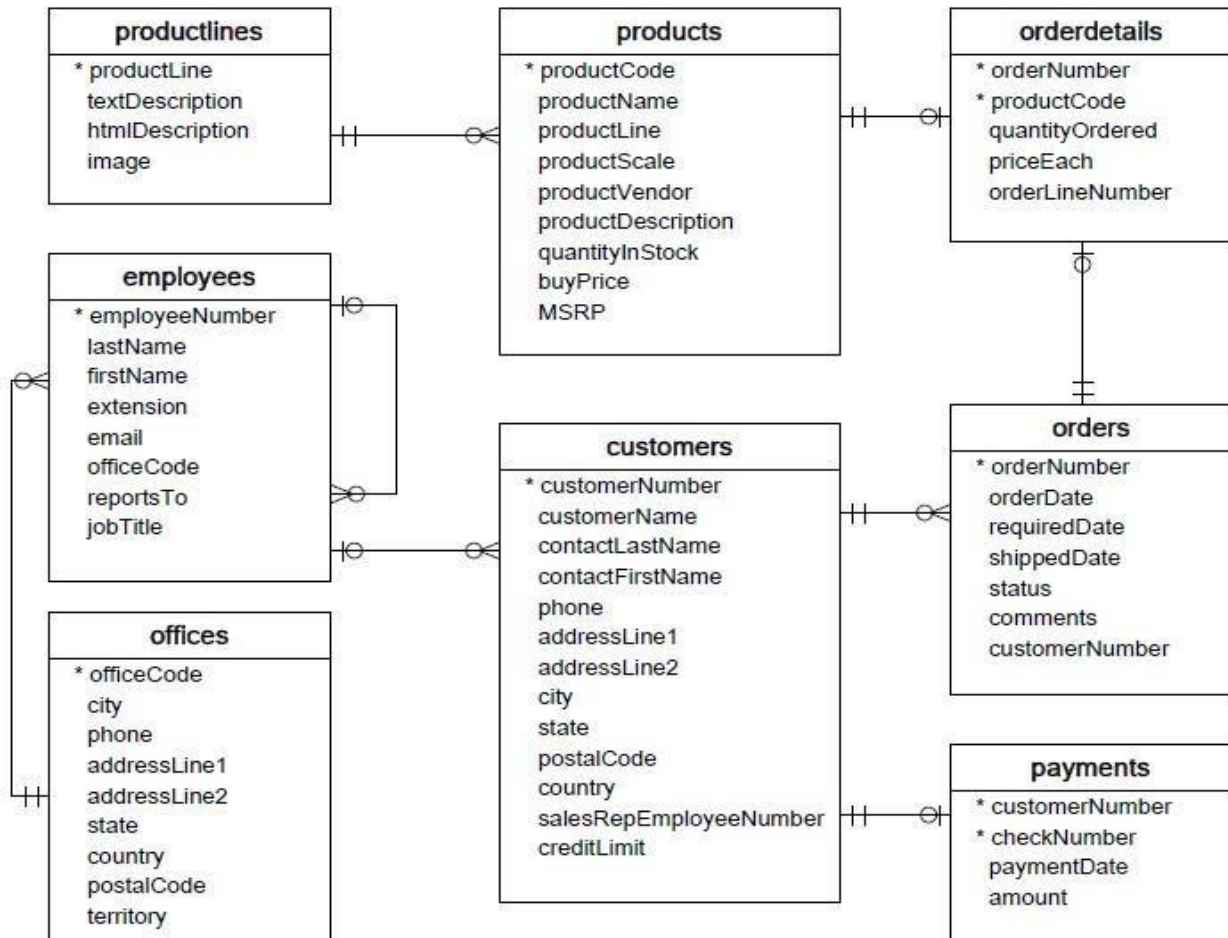


WORKSHEET 3 SQL

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,
 customerName,
 contactLastName ,
 contactFirstName ,
 phone,

```
addressLine1,  
addressLine2,  
city,  
state,  
postalcode,  
country,  
salesRepEmployeeNumber,  
creditLimit  
);
```

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

Ans.) CREATE TABLE Order (
orderNumber,
orderDate,
requiredDate,
shippedDate,
status,
comments,
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(orderDate)
FROM Orders
WHERE DATE(orderDate) = curdate();

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 orderNumber, customerName
FROM Orders;

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

Ans.) 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.

Ans.) First we will create the table payments:-----

```
CREATE TABLE payments(  
customerNumber,  
checkNumber,  
paymentDate,  
amount );
```

Then for extracting the above data query is:----

```
SELECT paymentDate, amount FROM payments;
```

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

Ans.) First we will create table :-----

```
CEATE TABLE products (  
productCode  
productName,  
productLine,  
productScale,  
productVendor  
productDescription  
quantityInStock  
buyPrice  
MSRP);
```

To extract the data we will write query:-----

```
SELECT productName, productDescription, MSRP FROM products;
```

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

```
Ans.) SELECT p.`productName`, p.`productDescription`, SUM(o.`quantityOrdered`) AS quantity  
FROM `orderdetails` AS o  
INNER JOIN `products` AS p  
ON o.`productCode` = p.`productCode`  
GROUP BY o.`productCode`  
ORDER BY SUM(o.`quantityOrdered`) DESC, p.`productName` ASC
```

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

```
Ans.) SELECT city, count(orderNumber) FROM customers, orders orderby count(orderNumber) groupby city ;
```

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

```
Ans.) SELECT state, count(customerNumber) FROM Customers orderby count(customerNumber) groupby 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) 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 \times priceEach).

Ans.) `SELECT customer Name , orderNumber, quantityOrdered *priceEach as TotalAmount FROM customers,orderdetails;`

