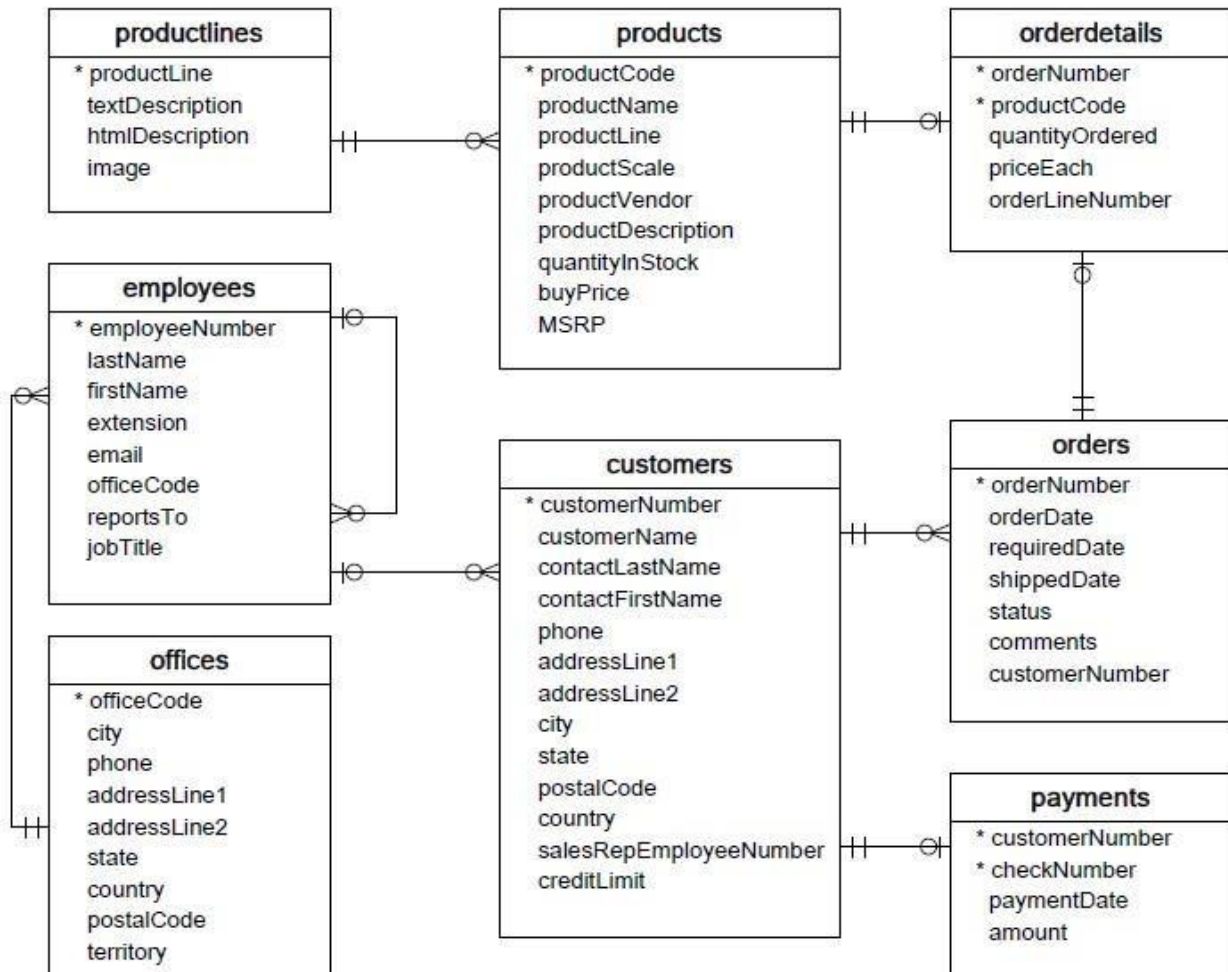


## WORKSHEET 3 SQL

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(customer\_id int NOT NULL, customer\_name char(50) NOT NULL, contactLastName char(20), contactFirstName char(20), Phone\_number int(10), addressLine1 char(50), addressLine2 char(50), city char(50), state char(25), postalcode int(10), country char(50), salesRepEmployeeNumber char(50), creditlimit int(20), PRIMARYKEY(customer\_id))

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

3. .

**Ans.** CREATE TABLE orders(orderNumber int(50) NOT NULL, orderdate date, requireddate date, shippeddate date, comments char(50), PRIMARY KEY (orderNumber), FOREIGN KEY (customer\_id) REFERENCES customers(customer\_id))

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

Ans. Select \* from orders

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

Ans Select comments from orders

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

Ans. Select orderdate, count(\*) from orders where orderdate='2022-09-10'.

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

Ans. Select employeeNumber, lastName, firstName from Employees.

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

Ans. Select o.orderNumber, c.customerName from orders o, customers c WHERE c.customer\_id=o. customer\_id

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

Ans. Select c.customerName, e.firstName from customers c, employees e, WHERE  
c.salesRepEmployeeNumber=e.employeeNumber

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**10.** 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 date, count(\*) from payment WHERE (TO\_CHAR(payment\_date,'Day'))='Monday'

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

Ans. Select productName, MSRP, productDescription from products

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

Ans. select MAX(o.quantityordered) ,p.productName, p.productDescription from products p, orderdetails o WHERE orderdetails.productcode=products.productcode

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

Ans. Select c.customer\_id,c.cityName, COUNT( orderNumber) from customers c, orders o GROUP BY customer\_id, ORDER BY COUNT( orderNumber) DESC

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

Ans. Select TOP 1(c.customer\_id), COUNT(o.orderNumber) as NoofOrd,state from customers c, orders o GROUP BY (customer\_id),ORDER BY NoOfOrd

**15.** 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, firstName + ' '+lastName as employeeName from Employees

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

Ans. Select c.customer\_id,o.orderNumber, (ord.quantityOrdered × ord.priceEach) as TotalAmount from customers inner join products p inner join orderDetails ord on c.customer\_id=o.customer\_id and o.orderNumber=ord.orderNumber and ord.productcode=p.productcode

