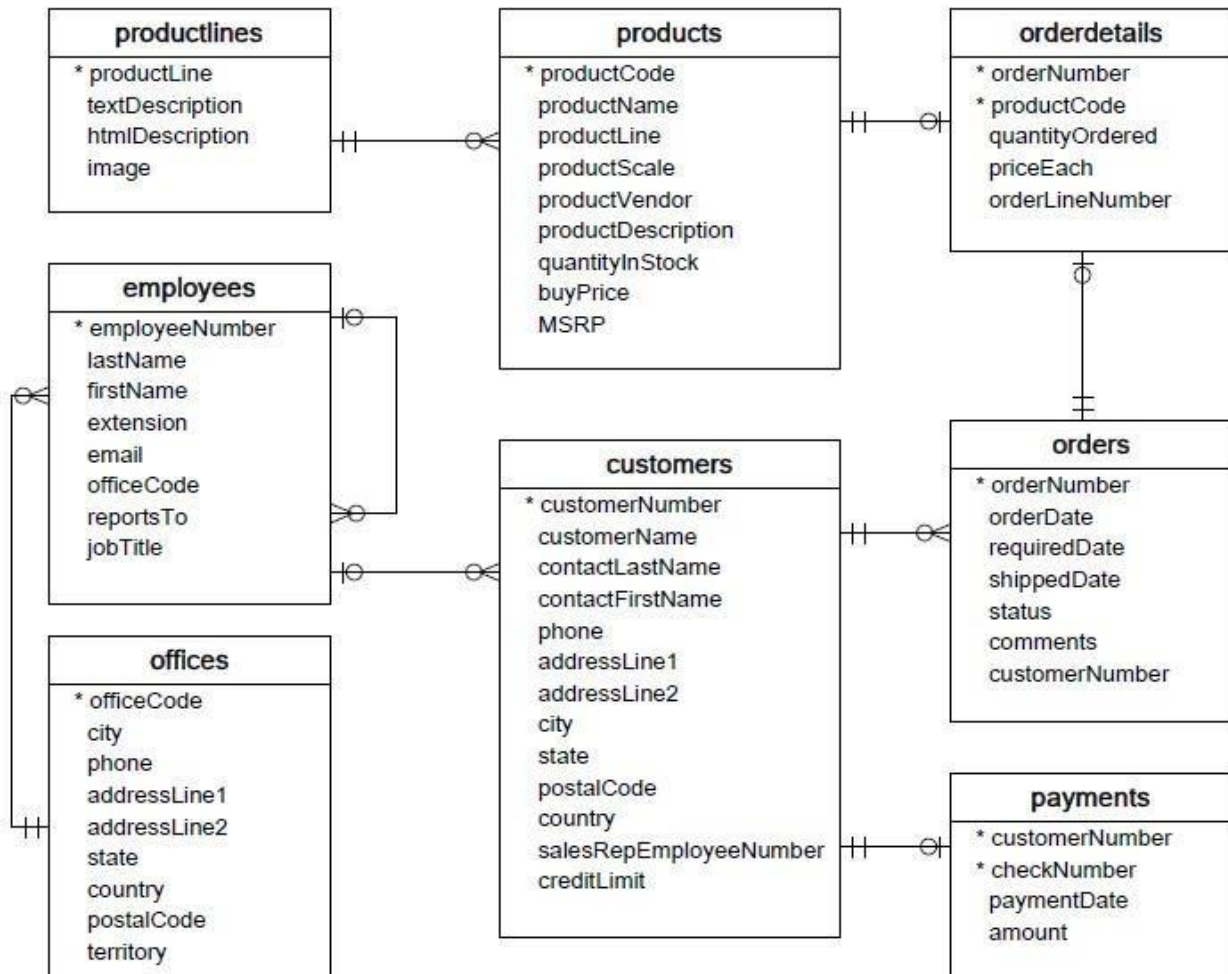


WORKSHEET 3 SQL

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(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**.

```
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));
```

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, count(*) from orders where orderdate='2022-09-10';
```

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 o.orderNumber, c.customerName from orders o, customers c WHERE c.customer_id=o. customer_id;
```

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

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

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 date, count(*) from payment WHERE (TO_CHAR(payment_date,'Day'))='Monday'
```

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

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

Select c.customer_id,c.cityName, COUNT(orderNumber) from customers c, orders o GROUP BY customer_id, ORDER BY COUNT(orderNumber) DESC

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

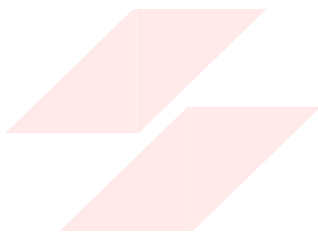
Select TOP 1(c.customer_id), COUNT(o.orderNumber) as NoofOrd,state from customers c, orders o GROUP BY (customer_id),ORDER BY NoOfOrd

- 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, firstName + ' ' +lastName as employeeName 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 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



FLIP ROBO
