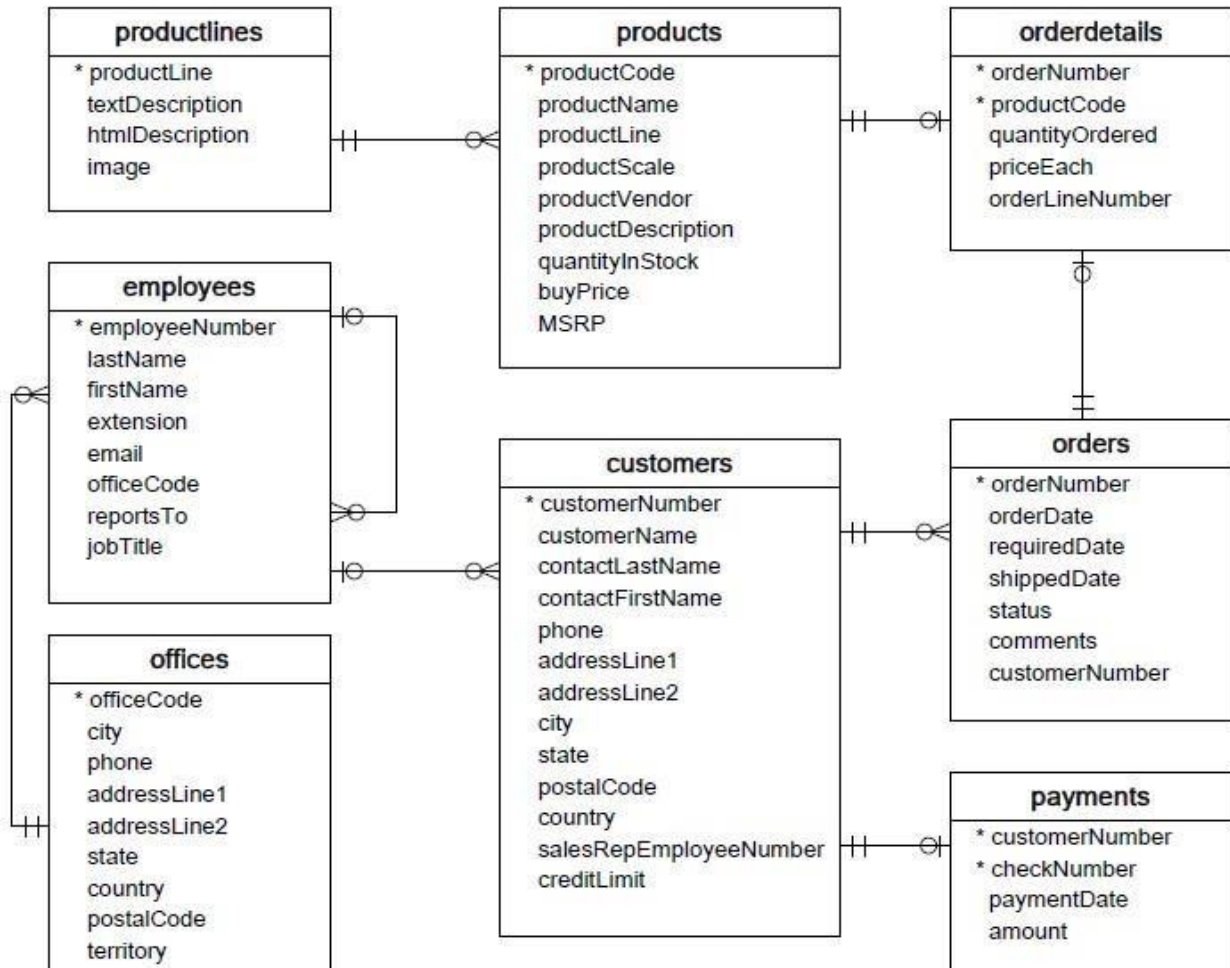


## WORKSHEET 3 SQL

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 integer PRIMARY KEY,
customerName varchar(20),
customerLastName varchar(20),
customerFirstName varchar(20),
phone int,
addressLine1 varchar(50),
addressline2 varchar(50),
city varchar(20),
state varchar(20),

```

postalCode int,  
country varchar(20),  
salesRepEmployeeNumber int,  
creditLimit int,  
FOREIGN KEY(salesRepEmployeeNumber) REFERENCES employees(employeeNumber))

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

**Ans:**

**CREATE TABLE orders(orderNumber integer PRIMARY KEY,  
orderDate date,  
requiredDate date,  
shippedDate date,  
status char(15),  
comments text,  
customerNumber int,  
FOREIGN KEY(customerNumber) REFERENCES customers(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 orderDate,count(orderNumber) from orders group by orderDate**

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 inner join customers on  
orders.customerNumber=customers.customerNumber order by orderNumber**

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

**Ans: SELECT customerName, concat(lastName, “ ”, firstName) from customers join employees on  
customers.salesRepEmployeeNumber=employees.employeeNumber**



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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.

**Ans: SELECT paymentDate, sum(amount) from payments group by paymentDate**

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

**Ans: SELECT productName, MSRP, productDescription from products**

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

**Ans: SELECT products.productName, products.productDescription from orderdetails inner join products on orderdetails.productCode=products.productCode group by orderdetails.productCode order by count(orderdeails.productCode) desc limit 1\G**

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

**Ans: SELECT customers.city,count(orders.orderNumber) as c from orders inner join customers on orders.customersNumber=customers.customernumber group by customers.city order by c desc limit 1**

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

**Ans: Select state from customers group by state order by count(state) desc limit 1**

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(lastName,firstName) 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 × priceEach).

**Ans: SELECT orderdetails.orderNumber,customerName,(priceEach\*quantityOrdered) as total\_amount from orders join orderdetails on orders.orderNumber=orderdetails.orderNumber join customers on customers.customerNumber=orders.customerNumber group by orderdetails.orderNumber order by orderdetails.orderNumber**



