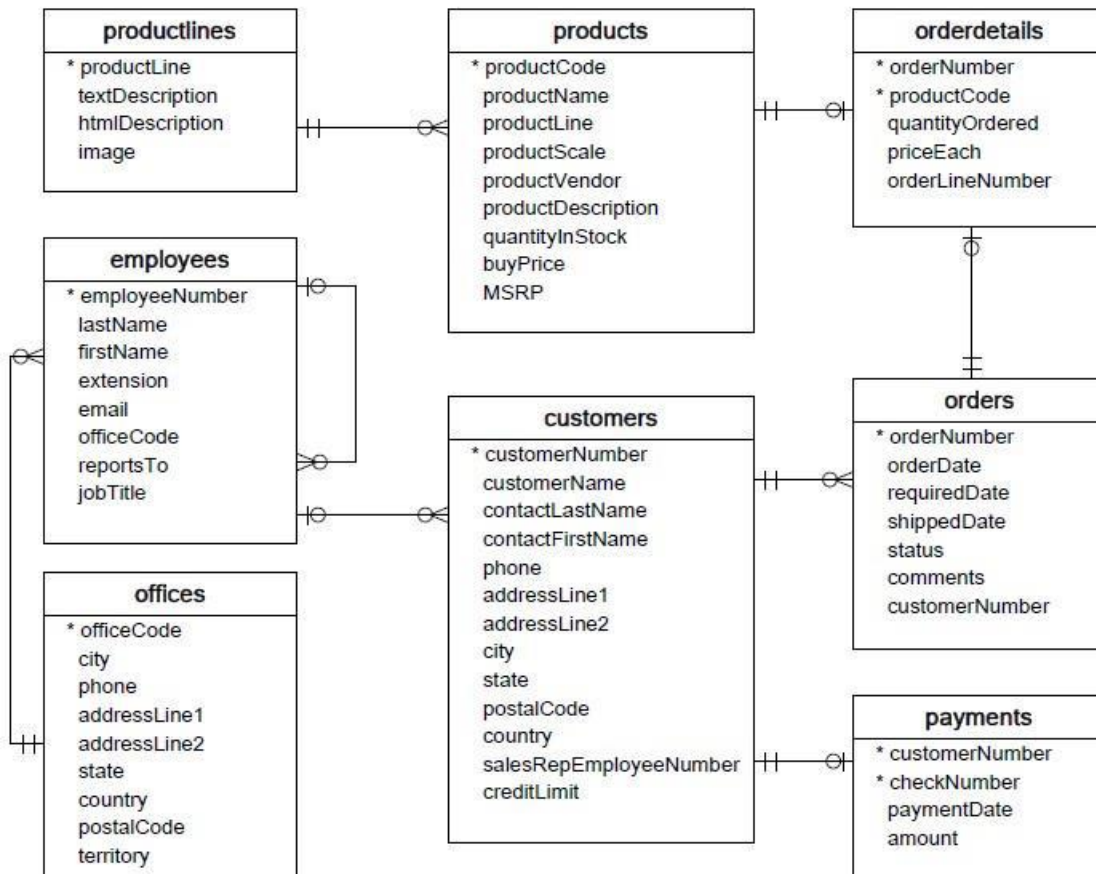


WORKSHEET 3

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.

Q1. Write SQL query to create table Customers.

```
create table customers
(customerNumber int, customerName varchar(50), contactLastName varchar(50),
contactFirstName varchar(50), phone int, addressLine1 varchar(50), addressLine2
varchar(50), city varchar(50), state varchar(50), postalcode int, country varchar(50),
salesRepEmployeeNumber int, creditlimit varchar(50));
```

Q2. Write SQL query to create table Orders.

```
create table orders
(orderNumber int primary key, orderDate date, requiredDate date,
shippedDate date Null, status varchar(50), comments text Null, customerNumber int);
```

Q3. Write SQL query to show all the columns data from the Orders Table.

```
show columns from orders;
```

Q4. Write SQL query to show all the comments from the Orders Table.

```
select comments from orders;
```

Q5. Write a SQL query to show orderDate and Total number of orders placed on that date, from Orders table.

```
select date(orderDate), count(orderNumber) from orders group by date(orderDate);
```

Q6. Write a SQL query to show employeeNumber, lastName, firstName of all the employees from employees table.

```
select employeeNumber, lastName, firstName from employees;
```

Q7. Write a SQL query to show all orderNumber, customerName of the person who placed the respective order.

```
select customers.customerName, orders.orderNumber from customers
inner join orders
on customers.customerNumber=orders.customerNumber;
```

Q8. Write a SQL query to show name of all the customers in one column and salerepemployee name in another column.

```
select customers.customerName, employees.firstName from customers
inner join employees
on customers.salesRepEmployeeNumber=employees.employeeNumber;
```

Q9. 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(paymentDate), sum(amount) from payments group by date(paymentDate);
```

Q10. Write a SQL query to show all the products productName, MSRP, productDescription from the products table.

```
select productName, productDescription, MSRP from products;
```

Q11. Write a SQL query to print the productName, productDescription of the most ordered product.

```
select products.productName, products.productDescription,
sum(orderdetails.quantityOrdered) as quantity from orderdetails
inner join products
on products.productCode=orderdetails.productCode
group by orderdetails.productCode
order by sum(orderdetails.quantityOrdered) Desc limit 1;
```

Q12. Write a SQL query to print the city name where maximum number of orders were placed.

```
select customers.city from customers
inner join orders
on customers.customerNumber=orders.customerNumber
group by customers.city
order by count(orders.orderNumber) desc limit 1;
```

Q13. Write a SQL query to get the name of the state having maximum number of customers.

```
select state, count(customerNumber) from customers
group by state
order by count(customerNumber) Desc limit 1;
```

Q14. 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, concat(firstName, ' ', lastName) as Completename from
employees;
```

Q15. Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered × priceEach).

```
select customers.customerName, orders.orderNumber,
orderdetails.quantityOrdered*orderdetails.priceEach as totalamountpaid from customers
inner join orders
on customers.customerNumber=orders.customerNumber
inner join orderdetails
on orders.orderNumber=orderdetails.orderNumber;
```