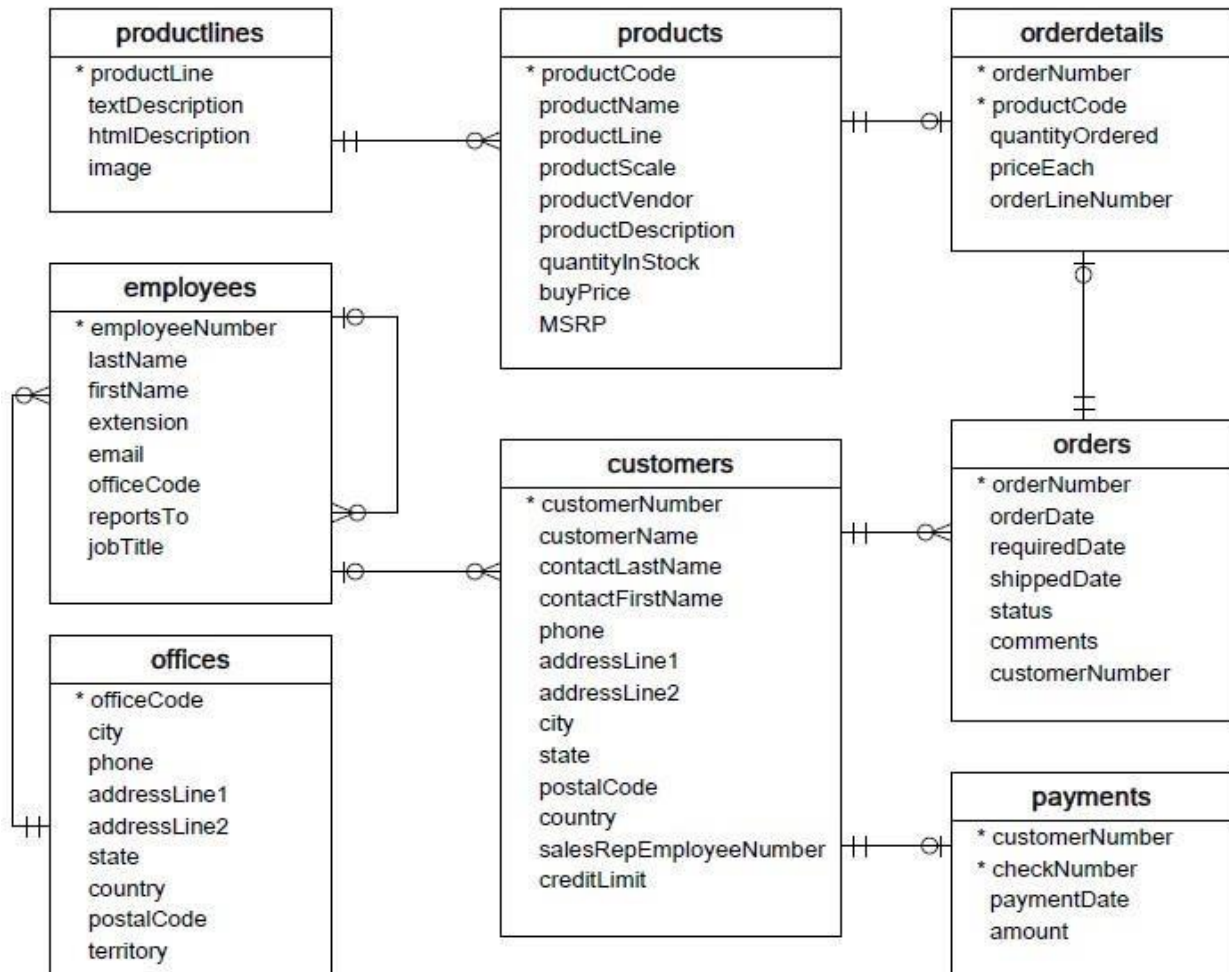


WORKSHEET 3 SQL

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.1) create table Customers

```

)
customerNumber int not null,
customerName varchar(100) not null,
contactLastName varchar(50) not null,
contactFirstName varchar(50) not null,
phone int not null,
addressline1 varchar(100),
addressline2 varchar(100),
city varchar(50),

```

```
state varchar(50),
postalcode int not null,
country varchar(100),
saleRepEmployeeNumber int not null,
creditLimit int not null,
foreign key(saleRepEmployeeNumber) references employees(employeeNumber),
primary key(customerNumber)
(;
```

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

Ans.2) create table Orders

```
)
orderNumber int not null,
orderDate date not null,
requiredDate date not null,
shippedDate not null,
status_ varchar(25) not null,
commments varchar(200),
customerNumber int not null,
primary key(ordernumber),
foreign key(customernumber) references customers(customernumber)
(;
```

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

Ans.3) select * from Orders ;

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

Ans.4) 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.5) select count(orderNumber),orderDate from Orders groupby orderDate ;

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

Ans.6) 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.7) SELECT `orderNumber` ,`customerName`
FROM Orders INNER JOIN customers ON orders.`customerNumber`=
customers.`customerNumber`;

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

Ans.8) SELECT `customerName` , CONCAT(`firstName`,`lastName`)
FROM employees INNER JOIN customers
ON Employees.`employeeNumber`= customers.`salesRepEmployeeNumber`;

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.9) `select sum(amount),paymentDate from payments groupby paymentDate ;`

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

Ans.10) `select productName, MSRP, productDescription from products ;`

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

Ans.11) `SELECT `productName`,`productDescription` FROM Products
INNER JOIN Orderdetails
ON Products.`productCode` = Orderdetails.`productCode`
GROUP BY Products.`productCode`
ORDER BY SUM(`quantityOrdered`) DESC
LIMIT 1;`

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

Ans.12) `SELECT `city` FROM Orders as a
INNER JOIN Customers as b
ON a.`customerNumber` = b.`customerNumber`
GROUP BY `city`
ORDER BY COUNT(`orderNumber`) DESC
LIMIT 1;`

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

Ans.13) `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.14) `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 × priceEach).

Ans.15) `SELECT `orderNumber`,`customerName`,`quantityOrdered` * `priceEach` as `total amount paid`
FROM OrderDetails as a INNER JOIN Orders as b
ON a.`orderNumber` = b.`orderNumber`
INNER JOIN Customers as c
ON b.`customerNumber` = c.`customerNumber`;`