FLIP ROBO
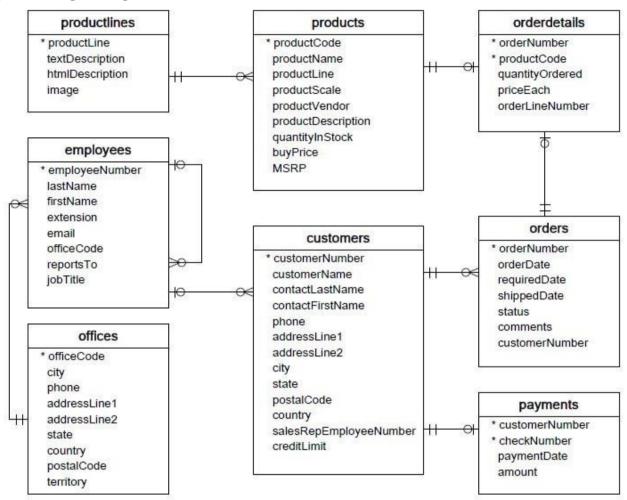
WORKSHEET 3 SQL

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 ' ('customerNumber' INT primary key auto_increment,
'customerName' VARCHAR(30) NOT NULL ,
'contactLastname' VARCHAR(15) NOT NULL,
'contactFirstname' VARCHAR(15) NOT NULL,
'phone' INT NOT NULL,
'addressline1' VARCHAR(200) NOT NULL,
'addressline2' VARCHAR(200) NOT NULL,
'city' VARCHAR(20) NOT NULL,
'state' VARCHAR(20) NOT NULL,
'postalcode' INT NOT NULL,
'country' VARCHAR(20) NOT NULL,
'salesRepEmployeeNumber' INT NOT NULL,
'creditlimit' INT NOT NULL);
Commit;

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

Create table 'Orders' ('orderNumber' INT primary key NOT NULL,
'order Date' DATE NOT NULL,
'requiredDate' DATE NOT NULL,
'shippedDate' DATE NOT NULL,
'status' VARCHAR(10) NOT NULL,
'comments' VARCHAR(30) NOT NULL,
'customerNumber' INT foreign key NOT NULL)
Commit;

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(orderNumber) from 'Orders' group by orderDate;

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

table.

Select emplyoeNumber , 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 as o,Customers as c where o.customerNumber=c.customerNumber;

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

Select c.customerName , concat(e.firstName,e.lastName) as 'saleremployee name'
from customers as c ,employees as 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 paymentDate as Date, sum(amount) as 'total payment amount'
From payments group by 'Date';

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 p.productName , max (sum(q.quantity))
from products as p, quantity as q
where q.productCode=p.productCode
group by productName;

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

Select c.city ,count(o.orderNumber) from customers as c, orders as o
Where c.customerNumber=o.customerNumber
Group by city
Order by count(o.orderNumber) desc;

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

Select c.state,count(c.customerNumber) from customers as c
Order by count(c.customerNumber) desc;

14. Write a SQL query to prINT the employee number in one column and Full name of the employee in thesecond column for all the employees.

Select e.emploeeNumber,concat(e.firstName,e.lastName)as 'employee full name'
from employee as e;

15. Write a SQL query to prINT the orderNumber, customer Name and total amount paid by the customer for thatorder (quantityOrdered × priceEach).

Select o.orderNumber, c.customerName,o.quantityOrdered * priceEach as 'total amount' from

customers as c join orders on c.customerNumber=orders.customerNumber

join orderdetails as o on orders.orderNumber=o.orderNumber;