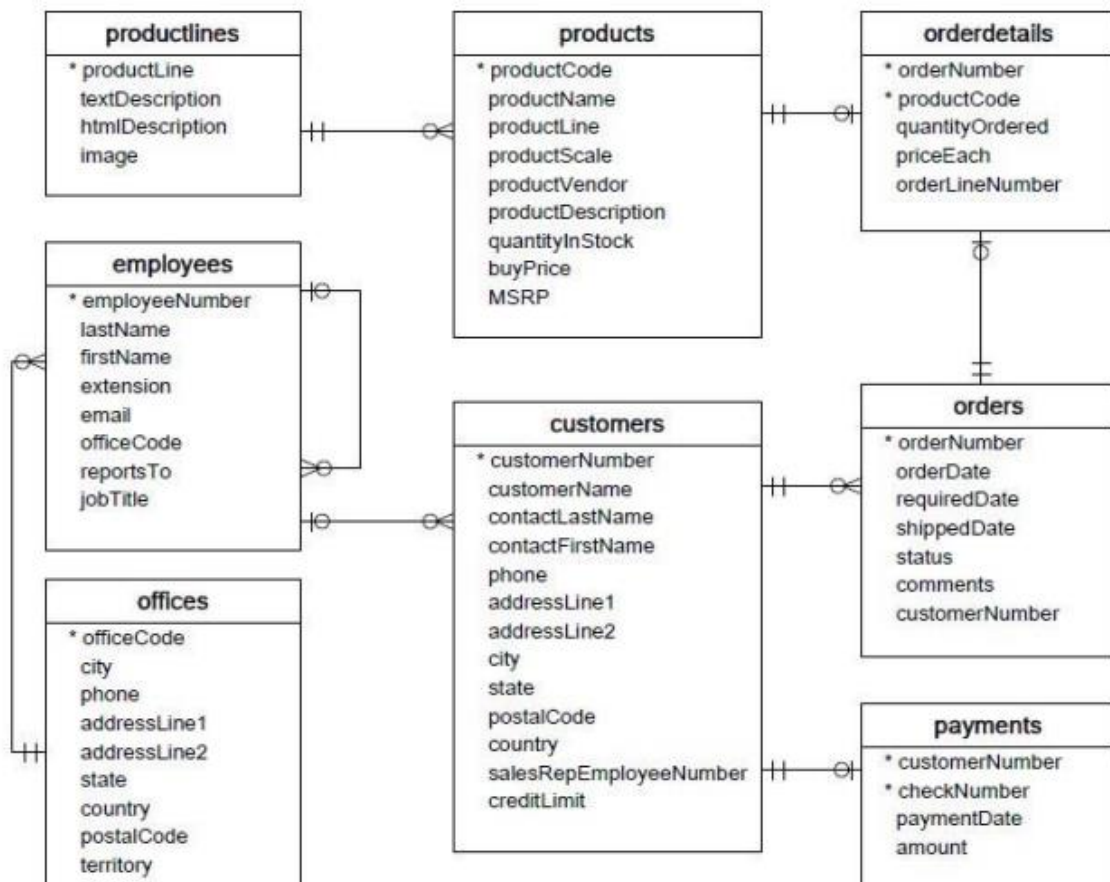# WORKSHEET 3 SQL

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 DATABASE product;

Show databases;

Use product;

CREATE TABLE customers (customerNumber INT PRIMARY KEY,

   customeName VARCHAR(50) NOT NULL,

   contactLastName VARCHAR(20),

   contactFirstName VARCHAR(20) NOT NULL,

   phone INT NOT NULL ,

   AddressLine1 VARCHAR(125) NOT NULL,

   AddressLine2 VARCHAR(125),

   City VARCHAR(35) NOT NULL,

   state VARCHAR(35) NOT NULL,

   postalCode INT NOT NULL,

   country VARCHAR(35) NOT NULL,

   salesRepEmployeeNumbr VARCHAR(20) NOT NULL,

   creditLimit INT

);

Now inset the values in table

INSERT INTO costomer VALUE (1,"b r ambetkar", "ambetkar","b r", 8877445566, "45 bugf hjkdh","nhd","pune","mh",456210,"india","K2564",0)

WE CAN INSERT MULTIPLE VALUES IN ATABLE.

2. Write SQL query to create table Orders.

➢ Create table

CREATE TABLE Orders (orderNumber VARCHAR(50) PRIMARY KEY,

    Orderdate DATE NOT NULL ,

    requiredDate DATE NOT NULL,

    shippingDate DATE NOT NULL,

    status VARCHAR(50) NOT NULL,

  comments VARCHAR(225) NOT NULL ,

    customerNumber INT NOT NULL

);

➢ Values Insert in the tables

INSERT INTO Orders VALUE (1,'2020-11-13' , '2020-12-20' , '2020-12-14' , 'IN_PROCESS' , 'delvr',12156845);

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 order Date and Total number of orders placed on that date, from **Orders** table.

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

Ans:6 1)step 1 create table employee

create table employee(employeeNumber INT PRIMARY KEY, lastName VARCHAR(50), firstName VARCHAR(50) NOT NULL , extantion VARCHAR(50), email VARCHAR(50) NOT NULL , officeCode INT ,reportsTo VARCHAR(30) NOT NULL, jobTitle VARCHAR(70));

2)step 2 insert the values in the table

INSERT INTO employee VALUE(101, 'nike', 'jon' , 'yes_9pm' ,'euiyruey@gmail.com' ,10254, 'mr.hok' , 'manager');

3) step 3 show employeeNumber, lastName, firstName of all the employees from employees table.

Select employeeNumber, lastName, firstName from employee;

7. Write a SQL query to show all order Number, customer Name of the person who placed the respective order.

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

ANS 8:Select customeName, salesRepEmployeeNumbr from customer;

WORKSHEET

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: CREATE TABLE payments (customerNumber VARCHAR(50) PRIMARY KEY,

   checkNumber INT NOT NULL ,

   paymentDate DATE NOT NULL,

   amount FLOAT NOT NULL

INSERT INTO payments VALUE (1202020,112233, '2020-10-10',480000);

INSERT INTO payments VALUE (1110000,552233, '2021-10-10',580000);

SELECT paymentDate, SUM(amount) FROM payments GROUP BY (paymentDate);

10. Write a SQL query to show all the products product Name, MSRP, product Description from the products table.

SELECT ProductName, MSRP, ProductDescription from Products;

11. Write a SQL query to print the product Name, product Description of the most ordered product.

create table Products (ProductCode int, ProductName varchar(10), ProductDescription varchar(20), MSRP int, BuyPrice int);

insert into Products (ProductCode, ProductName, ProductDescription, MSRP, BuyPrice) value(1, 'Bike', 'TwoWheeler', 10000, 9000), (2, 'Car', 'FourWheeler', 100000, 90000), (3, 'Bike', 'TwoWheeler', 20000, 18000), (4, 'SUV', 'FourWheeler', 1000000, 900000), (5, 'Car', 'FourWheeler', 101000, 91000), (6, 'Bike', 'TwoWheeler', 130000, 93000), (7, 'Bike', 'TwoWheeler', 140000, 94000);

insert into Products (ProductCode, ProductName, ProductDescription, MSRP, BuyPrice) value(8, 'Bike', 'TwoWheeler', 10000, 9000), (9, 'Car', 'FourWheeler', 100000, 90000), (10, 'Bike', 'TwoWheeler', 10000, 9000), (11, 'SUV', 'FourWheeler', 1000000, 900000), (12, 'Car', 'FourWheeler', 100000, 90000), (13, 'Bike', 'TwoWheeler', 10000, 9000), (14, 'Bike', 'TwoWheeler', 10000, 9000);

SELECT ProductName, ProductDescription FROM Products GROUP BY ProductName ORDER BY count(MSRP);

SELECT ProductName, ProductDescription FROM Products GROUP BY ProductName ORDER BY count(MSRP) desc;

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

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

ANS 13: create table customerdetails (statename varchar(50),numberofcustomer int not null,customerid int PRIMARY KEY);

insert into customerdetails (statename,numberofcustomer,customerid)value('mp',155500000,101),('up',458790000,102),('bihar ',123654000,103),('rajasthan',58760000,104);

Select max(numberofcustomer) from table(table name);

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:

INSERT INTO employee (employeeNumber, lastName, fristName, extantion, email, officeCode, reportsTo, jobTitle) VALUE (107, 'ruchita', 'parmar', 'yes_12', 'aqwertu@gmail.com', 201, 'asd', 'DataAnalyst');

INSERT INTO employee (employeeNumber, lastName, fristName, extantion, email, officeCode, reportsTo, jobTitle) VALUE (103, 'sandeep', 'parmar', 'yes_12', 'qwertu@gmail.com', 201, 'asd', 'devopsEngineer');

SELECT employeeNumber, CONCAT(fristName,' ',lastName) 'EmployeeName' from employee;

15. Write a SQL query to print the order Number, customer Name and total amount paid by the customer for that order (quantity Ordered × priceEach).