**WORKSHEET-3**

**SQL**

**Refer the following ERD and answer all the questions in this worksheet. You have to write the queries using mysql.**



* **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 NOT NULL PRIMARY KEY AUTO-INCREMENT,

customerName VARCHAR(50) NOT NULL,

contactLastName VARCHAR(50),

contactFirstName VARCHAR(50),

Phone INT NOT NULL,

addressLine1 VARCHAR(50) NOT NULL,

addressLine2 VARCHAR(50),

city VARCHAR(50) NOT NULL,

state VARCHAR(50) NOT NULL,

postalcode INT NOT NULL,

country VARCHAR(50) NOT NULL,

salesRepEmployeeNumber VARCHAR(10) NOT NULL,

creditLimit INT

);

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

Create Table orders

(

orderNumber INT NOT NULL PRIMARY KEY AUTO-INCREMENT,

orderDate DATE NOT NULL,

requiredDate DATE NOT NULL,

shippedDate DATE NOT NULL,

status VARCHAR NOT NULL,

comments VARCHAR(100),

customerNumber INT NOT NULL FOREIGN KEY

);

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

SELECT \* FROM orders;

1. 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(DISTINCT orderNumber) FROM orders;

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

SELECT employeNumber, lastName, firstName FROM employees;

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

SELECT c.customerName,o.orderNumber,

FROM customers c

INNER JOIN orders o

ON c.customerNumber=o.orderNumber

order by o.orderNumber;

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

SELECT c.customerName,e.firstName,

FROM customers c

INNER JOIN employees e

ON c.employeeNumber=e.employeeNumber

order by o.employeeNumber;

1. 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 o.orderDate,p.amount,

FROM payments p

INNER JOIN orders o

ON p.customerNumber=o.orderNumber

order by o.customerNumber

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

SELECT products productName, MSRP, productDescription FROM products;

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

SELECT products productName, productDescription FROM products order by quantityOrdered;

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

SELECT c.city,MAX(d.quantityOrdered)

FROM customer c

INNER JOIN orderdetails d

ON d.orderNumber=o.orderNumber=c.customerNumber

order by d. quantityOrdered;

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

SELECT c.state,MAX(d.quantityOrdered)

FROM customer c

INNER JOIN orderdetails d

ON d.orderNumber=o.orderNumber=c.customerNumber

order by d. quantityOrdered;

1. 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 fullName from employees;

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

SELECT d.orderNumber,d.( (quantityOrdered \* priceEach as totalAmount), c.customerName

FROM customer c

INNER JOIN orderdetails d

ON d.orderNumber=o.orderNumber=c.customerNumber

order by d.orderNumber;