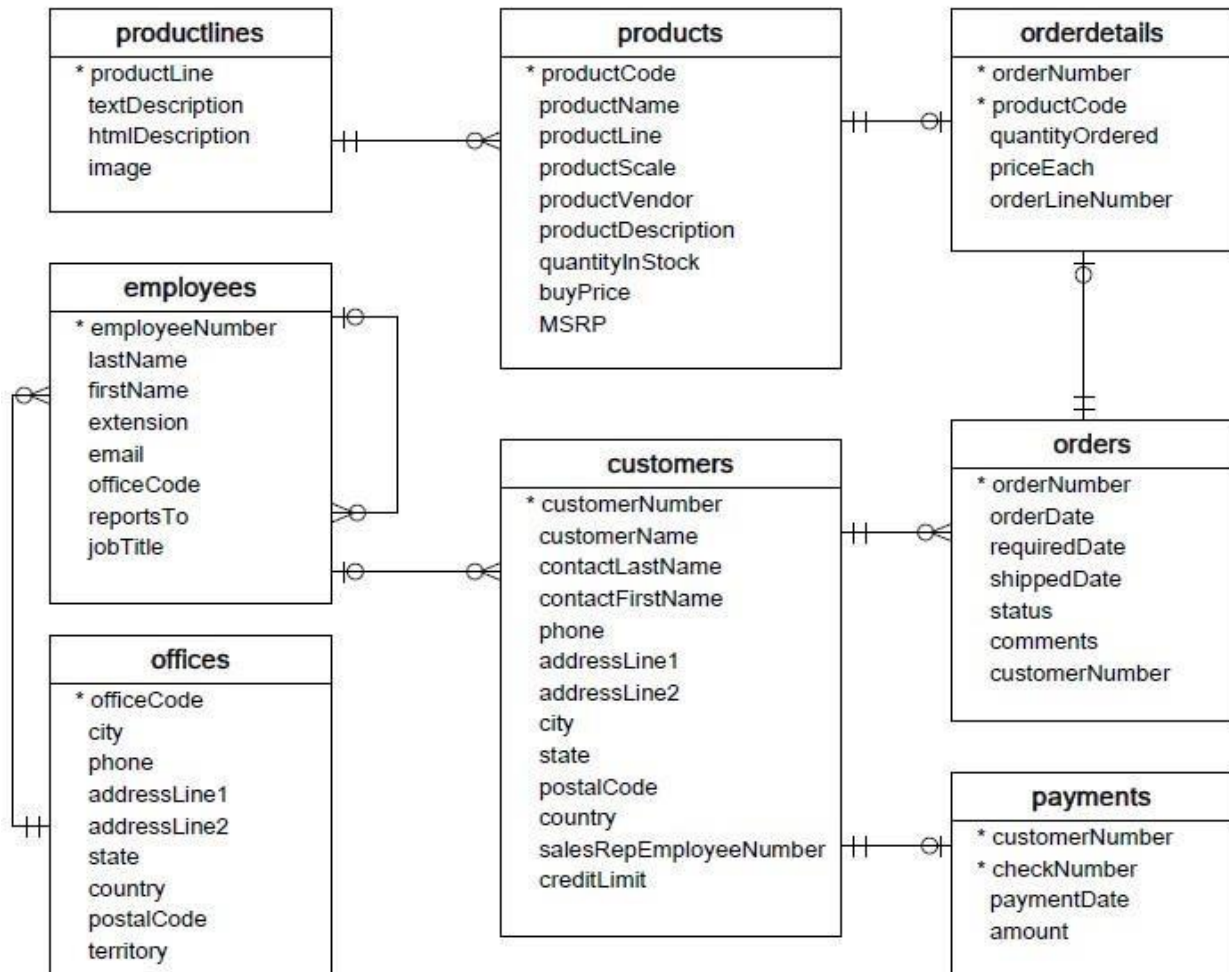**FLIP ROBO**

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, customername VARCHAR, contactLastName VARCHAR, contactFirstName VARCHAR, phone INT, addressLine1 VARCHAR, addressLine2 VARCHAR, city TEXT, state TEXT, postalCode INT, country TEXT, salesRepEmployeeNumber INT, creditLimit INT)
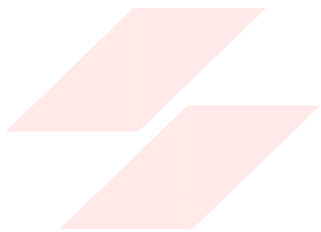
2. Write SQL query to create table **Orders.**
   CREATE TABLE orders (orderNumber INT PRIMARY KEY, orderDate DATE, requiredDate DATE, shippedDate DATE, status TEXT, comment TEXT, customerNumber INT FOREIGN KEY)

3. Write SQL query to show all the columns data from the **Orders** Table.
result = SELECT * FROM orders
for i result:
    print(i)

4. Write SQL query to show all the comments from the **Orders** Table.
result = SELECT comment FROM orders
for i result:
    print(i)

5. Write a SQL query to show orderDate and Total number of orders placed on that date, from **Orders** table.
SELECT orders.orderDate, orderdetails.quantityOrdered FROM orders INNER JOIN orderdetails ON orderNumber = orderNumber

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

7. Write a SQL query to show all orderNumber, customerName of the person who placed the respective order.
SELECT orders.orderNumber, Customers.customerName FROM orders INNER JOIN Customers ON customerNumber = customerNumber

8. 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 FULL OUTER JOIN employees ON salesRepEmployeeNumber = 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 payments.paymentDate, payments.amount FROM payments

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

11. Write a SQL query to print the productName, productDescription of the most ordered product.
SELECT p.productName, p.productDescription, FROM products p INNER JOIN orderedQuantity GROUP BY p.productName ORDER BY COUNT(orderDetails.quantityOrdered) DESC

12. Write a SQL query to print the city name where maximum number of orders were placed.
SELECT customers.city, FROM customers INNER JOIN orderedQuantity GROUP BY p.productName ORDER BY MAX (orderDetails.quantityOrdered) DESC

13. Write a SQL query to get the name of the state having maximum number of customers.
SELECT customers.state, FROM customers GROUP BY customers.state ORDER BY COUNT(*) DESC

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.
SELECT e.employeeNumber, CONCAT(e.firstName, e.lastName) FROM employees e

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

SELECT o.orderNumber, c.customerName, q.quantityOrdered * q.priceEach FROM orderdetails o INNER JOIN orders ON o.orderNumber = order.customerNumber INNER JOIN customers ON order.customerNumber = customers.customerNumber