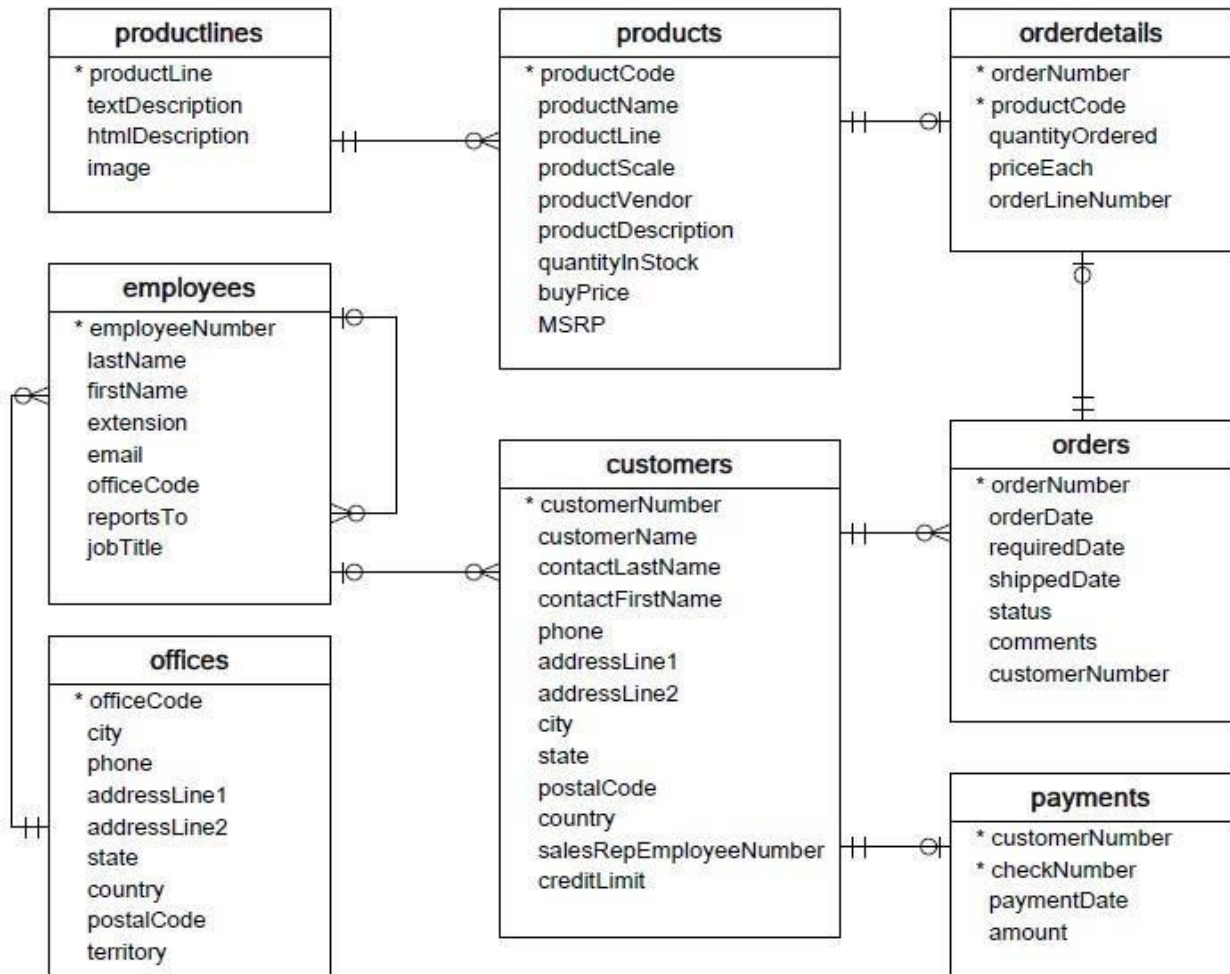


WORKSHEET 3 SQL

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



- **Offices:** stores sales office data.

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

Answer: CREATE TABLE customers(
 customerNumber int NOT NULL,
 customerName varchar(50),
 contactLastName varchar(50) ,
 contactFirstName varchar(50) ,
 phone int ,
 addressLine1 varchar(100) ,
 addressLine2 varchar(100) ,
 city varchar(50) ,
 state varchar(50),
 postalCode int,
 country varchar(50),
 salesRepEmployeeNumber int ,
 creditLimit int ,
 PRIMARY KEY (customerNumber)
);

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

Answer : `SELECT * FROM Orders ;`

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

Answer : `SELECT comments FROM Customers;`

4. Write a SQL query to show orderDate and Total number of orders placed on that date, from **Orders** table.

Answer: `SELECT orderDate , COUNT(OrderNumber) AS Total_orders FROM Orders GROUP BY OrderDate;`

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

Answer: `SELECT employeeNumber, lastName, firstName FROM employees ;`

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

Answer: `SELECT orders.orderNumber, customers.customerName FROM order,customers WHERE
orders.customerNumber =customers.customerNumber ;`

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

Answer: `SELECT salerepemployee, customerName FROM customers ;`

8. 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.

Answer: `SELECT SUM(amount) as Total Amount , DATE(paymentDate) FROM payments GROUPBY
DATE(paymentDate);`

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

Answer: `SELECT productName, MSRP, productDescription FROM products;`

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

Answer: `SELECT products. productDescription, products. productName, FROM orderDetail
INNER JOIN products ON orderDetail.productCode = products.productCode
GROUP BY orderDetail.productCode ORDER BY SUM(orderDetail.quantityOrdered) DESC,
LIMIT 1;`

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

Answer: `SELECT customers.city FROM ((ordersINNER JOIN orderDetails ON orders.orderNumber =
orderDetails.orderNumber)INNER JOIN customers ON ordersDetail.customerNumber = customers.customerNumber)
GROUPBY customers.city ORDERBY SUM (orderDetails.quantityOrdered) DESC, LIMIT 1;`

12. Write a SQL query to get the name of the state having maximum number of customers.
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Answer: `SELECT state, FROM customers GROUPBY state ORDERBY COUNT(customerNumber) DESC,Limit 1 ;`

- 13.** 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.

Answer : `SELECT employeeNumber, CONCAT(firstName, " ", lastName) AS Full_Name FROM employees ;`

- 14.** Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered \times priceEach).

Answer : `SELECT orderDetails .orderNumber, customers.customerName, orderDetails. quantityOrdered * orderDetails.priceEach AS Total_Amount FROM ((ordersINNER JOIN orderDetails ON orders.orderNumber = orderDetails.orderNumber)INNER JOIN customers ON ordersDetail.customerNumber = customers.customerNumber)`



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