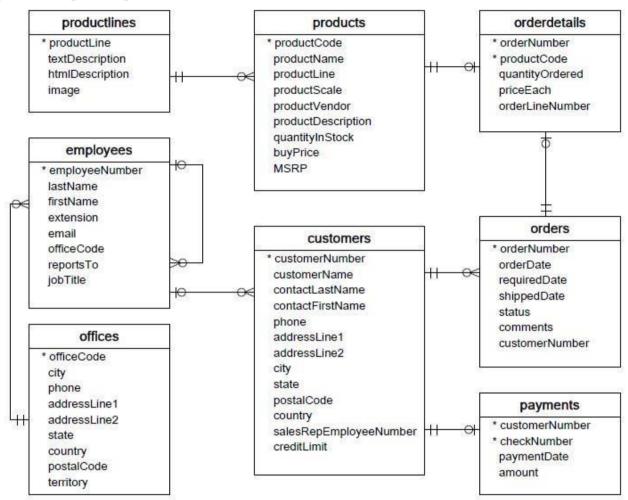


WORKSHEET 3 SQL

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.

Answer -

Create table Customers (customerNumber INT PRIMARY KEY, customerName VARCHAR(20), contactLastName VARCHAR(20), contactFirstName VARCHAR(20), phone INT , addressLine1 VARCHAR(20), addressLine2 VARCHAR(20), city VARCHAR(10), state VARCHAR(20), postalcode INT , country VARCHAR(20), salesRepEmployeeNumber INT , creditLimit INT);



2. Write SQL query to create table Orders.

Answer -

Create table orders (orderNumber INT PRIMARY KEY, orderDate DATE, requiredDate DATE, shippedDate DATE, status VARCHAR(20), comments VARCHAR(20), customerNumber INT, FOREIGN KEY (customerNumber) REFERENCES Customers(customerNumber));

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

Answer -

SELECT * FROM orders;

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

Answer -

SELECT comments FROM orders:

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

Answer -

SELECT o.orderDate, SUM(od.quantityOrdered) FROM orders o, orderDetails od GROUP BY o.orderDate;

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

Answer -

SELECT employeNumber, lastName, firstName FROM employees;

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

SELECT orders.orderNumber, Customers.customerName FROM orders INNER JOIN Customers ON orders. customerNumber = Customers. customerNumber;

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

Answer -

SELECT customerName, salesEmployeenumber FROM Customers;

OR

SELECT c.customerName, e.firstName

FROM c.customers

 $LEFTJOIN\ e. employees\ ON\ c. sales Rep Employee Number = e. employee Number$

ORDER BY c.customerNumber;



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.

Answer -

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

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

Answer -

SELECT productName, MSRP, productDescription FROM products;

 $\textbf{11.} \ \ Write \ a \ SQL \ query \ to \ print \ the \ productName, \ productDescription \ of \ the \ most \ ordered \ product.$

Answer –

SELECT p. productName, p. productDescription FROM orderdetails AS o INNER JOIN products AS p ON o.productCode = p.productCode WHERE o.quantityOrdered = (SELECT MAX(quantityOrdered) FROM orderDetails)

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

Answer – SELECT c.city FROM customer c, orders o, orderDetails od WHERE c.customerNumber = o.customerNumber AND o.orderNumbe = od.orderDetails AND od.quantityordered =(SELECT MAX(quantityOrdered) FROM orderDetails);

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

Answer -

SELECT state, COUNT(state) FROM customers GROUP BY state ORDER BY 2 DESC LIMIT 1;

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.

Answer -

SELECT employeeNumber, CONCAT(FIRSTNAME, LASTNAME) AS FULLNAME FROM employees;

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

Answer -

SELECT o.orderNumber, c.csutomerName, SUM(od.priceEach) As totalAmount FROM orders o, customer c, orderDetails od WHERE od.orderNumber = o.orderNumber AND o.custNumber = c.custNumber GROUP BY orderNumber;

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https://www.mysqltutorial.org/mysql-sample-database.aspx