

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.

1. Write SQL query to create table Customers

Ans = CREATE TABLE customers (customerNumber int primary key NOT NULL, customerName varchar(50) NOT NULL, contactLastName varchar(15) NOT NULL, contactFirstName varchar(30) NOT NULL, phone int NOT NULL, addressLine1 varchar(100) NOT NULL, addressLine2 varchar(60) NOT NULL, city varchar(25) NOT NULL, state varchar(20) NOT NULL, postalCode int NOT NULL, country varchar(20) NOT NULL, salesRepEmployeeNumber varchar(20) NOT NULL, creditLimit int NOT NULL);

2. Write SQL query to create table Orders

Ans = CREATE TABLE orders (orderNumber int NOT NULL PRIMARY KEY, orderDate DATE NOT NULL, requiredDate DATE NOT NULL, shippedDate DATE NOT NULL, status varchar(100) NOT NULL, comments varchar(100), customerNumber int NOT NULL, FOREIGN KEY (orderNumber) REFERENCES orderdetails(orderNumber) ON DELETE CASCADE FOREIGN KEY (customerNumber) REFERENCES customers(CustomerNumber) ON DELETE CASCADE);

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

Ans = `SELECT * from orders;`

4. Write SQL query to show all the comments from the OrdersTable.

Ans = `SELECT comments from orders;`

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

Ans = `SELECT orderDate, COUNT(*) from orders GROUP BY orderDate;`

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

Ans = `SELECT employeeNumber, lastName, firstName from employees;`

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

Ans = SELECT orders.orderNumber, customers.customerName
from orders, employees ORDER BY orderNumber ASC;

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

Ans = SELECT customers.CustomerName AS "CustomerName",
CONCAT(employees.firstName, ' ', employees.lastName)
salesrepName from customer, employees;

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 = 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.

Ans = SELECT productName, MSRP, productDescription from
products;

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

Ans = SELECT products.productName,
products.productDescription from products where
max(count(productCode));

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

Ans = SELECT customers.city from customers where
max(count(DISTINCT orders.orderNumber));

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

Ans = SELECT state from customers where max(GROUP BY state)

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 = SELECT a.orderNumber, a.priceEach*a.quantityOrdered as
totalamount, c.customerName FROM orderdetails a JOIN orders b
ON a.orderNumber = b.orderNumber JOIN customers c ON
b.customerNumber = c.customerNumber

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

Ans = NOT NULL and GROUP BY paymentDate