**Creating Tables: Customers and Orders**

sql

Copy code

CREATE TABLE Customers (

CustomerID INT PRIMARY KEY,

Name VARCHAR(50),

City VARCHAR(50),

Email VARCHAR(50)

);

CREATE TABLE Orders (

OrderID INT PRIMARY KEY,

CustomerID INT,

OrderDate DATE,

Amount DECIMAL(10,2),

FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)

);

INSERT INTO Customers (CustomerID, Name, City, Email) VALUES (1, 'Alice', 'New York', 'alice@example.com'),

(2, 'Bob', 'Los Angeles', 'bob@example.com'),

(3, 'Charlie', 'Chicago', 'charlie@example.com'),

(4, 'David', 'Miami', NULL);

-- Orders Table Data

INSERT INTO Orders (OrderID, CustomerID, OrderDate, Amount) VALUES (101, 1, '2023-10-01', 500.00), (102, 2, '2023-10-05', 300.00), (103, 1, '2023-10-10', 700.00), (104, 3, '2023-10-12', 450.00), (105, 2, '2023-11-01', 200.00);

1. Inserting Sample Data
2. *Retrieve all unique cities where customers live.*
3. *Retrieve customers from 'New York' OR 'Los Angeles' but NOT 'Miami'.*
4. Add a new customer named 'Eve' from 'Boston'.
5. Update 'Alice's' city to 'San Francisco'.
6. Delete all orders with an amount less than 400.
7. Count the total number of customers.
8. Retrieve customers whose names start with 'A'.
9. *Retrieve orders placed between '2023-10-01' and '2023-10-10'.*
10. Retrieve customer names and their order amounts.
11. Retrieve all cities from both Customers and Orders tables.
12. Count the number of customers in each city.
13. Retrieve cities where the number of customers is greater than 1.
14. Retrieve customers who have placed at least one order.
15. Retrieve customers who have orders with amounts greater than 500.
16. Retrieve customers without an emai
17. Categorize customers based on their city.
18. Copy all customer data into a backup table.
19. Insert all customers who live in 'New York' into another table.