#### TASKS:

1. Provide a SQL script that initializes the database for the Pet Adoption Platform "PetPals".

Query:

CREATE DATABASE IF NOT EXISTS petadoptiondatabase; usepetadoptiondatabase

2. Create tables for pets, shelters, donations, adoption events, and participants.

```
-- Pets Table
CREATE TABLE IF NOT EXISTS Pets (
  PetID INT PRIMARY KEY,
  Name VARCHAR(255),
  Age INT,
  Breed VARCHAR(255),
  Type VARCHAR(50),
  AvailableForAdoption BIT
);
-- Shelters Table
CREATE TABLE IF NOT EXISTS Shelters (
  ShelterID INT PRIMARY KEY,
  Name VARCHAR(255),
  Location VARCHAR(255)
);
-- Donations Table
CREATE TABLE IF NOT EXISTS Donations (
  DonationID INT PRIMARY KEY,
  DonorName VARCHAR(255),
  DonationType VARCHAR(50),
  DonationAmount DECIMAL(10, 2),
  DonationItem VARCHAR(255),
  DonationDate DATETIME
);
-- AdoptionEvents Table
CREATE TABLE IF NOT EXISTS AdoptionEvents (
  EventID INT PRIMARY KEY,
  EventName VARCHAR(255),
  EventDate DATETIME,
  Location VARCHAR(255)
);
```

```
    Participants Table
    CREATE TABLE IF NOT EXIST Participants (
        ParticipantID INT PRIMARY KEY,
        ParticipantName VARCHAR(255),
        ParticipantType VARCHAR(50),
        EventID INT,
        FOREIGN KEY (EventID) REFERENCES AdoptionEvents(EventID)
);
```

3. Define appropriate primary keys, foreign keys, and constraints:

Ans: That was created in the above table

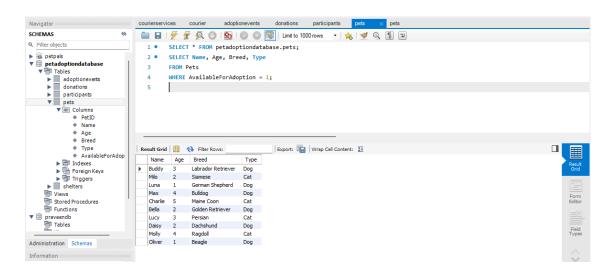
4. Ensure the script handles potential errors, such as if the database or tables already exist.

Ans: IF NOT EXISTS clause is used in the table and database creation.

5.Write an SQL query that retrieves a list of available pets (those marked as available for adoption) from the "Pets" table. Include the pet's name, age, breed, and type in the result set. Ensure that the query filters out pets that are not available for adoption.

#### query:

SELECT Name, Age, Breed, Type FROM Pets WHERE AvailableForAdoption = 1;

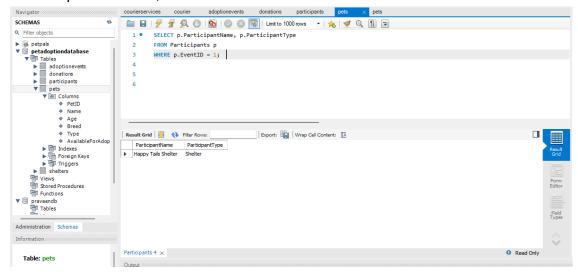


6.Write an SQL query that retrieves the names of participants (shelters and adopters) registered for a specific adoption event. Use a parameter to specify the event ID. Ensure that the query joins the necessary tables to retrieve the participant names and types

#### query:

SELECT p.ParticipantName, p.ParticipantType FROM Participants p

WHERE p.EventID = 1;

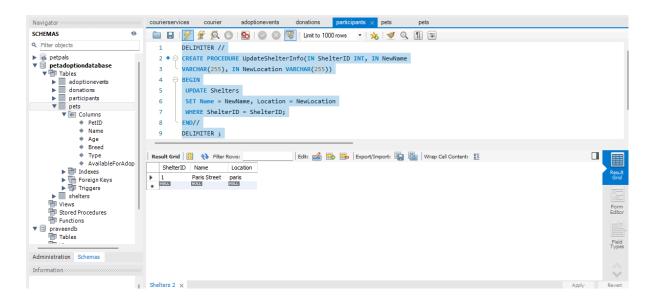


### 7. Update Shelter Information Procedure Query:

DELIMITER //

CREATE PROCEDURE UpdateShelterInfo(IN ShelterID INT, IN NewName VARCHAR(255), IN NewLocation VARCHAR(255)) BEGIN UPDATE Shelters SET Name = NewName, Location = NewLocation WHERE ShelterID = ShelterID; END//

DELIMITER; CALL UpdateShelterInfo(1, 'Paris Street', 'paris'); SELECT \* FROM Shelters WHERE ShelterID = 1; Set sql safe updates=0;

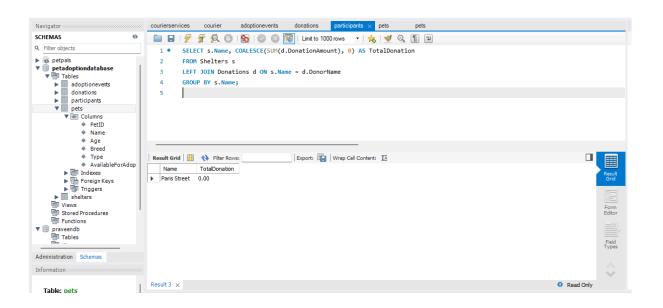


## 8. Total Donation Amount per Shelter Query:

SELECT s.Name, COALESCE(SUM(d.DonationAmount), 0) AS TotalDonation

FROM Shelters s

LEFT JOIN Donations d ON s.ShelterID = d.ShelterID GROUP BY s.Name;



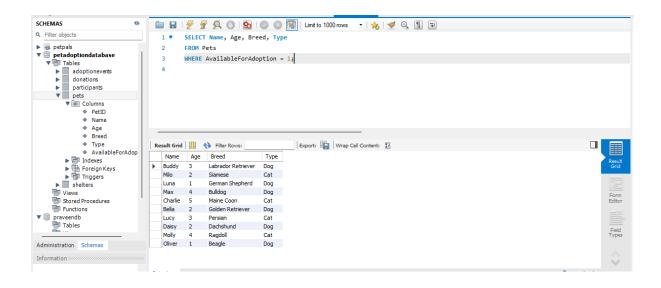
#### 9. Pets Without Owners

#### Query:

SELECT Name, Age, Breed, Type

**FROM Pets** 

WHERE AvailableForAdoption = 1;



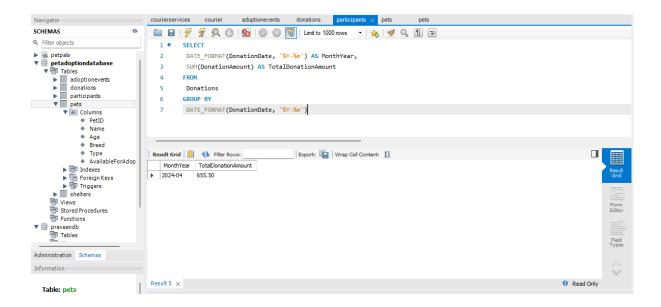
#### 10. Total Donation per Month-Year

#### Query:

SELECT DATE\_FORMAT(DonationDate, '%Y-%m') AS MonthYear, SUM(DonationAmount) AS TotalDonationAmount

**FROM Donations** 

GROUP BY DATE FORMAT(DonationDate, '%Y-%m')

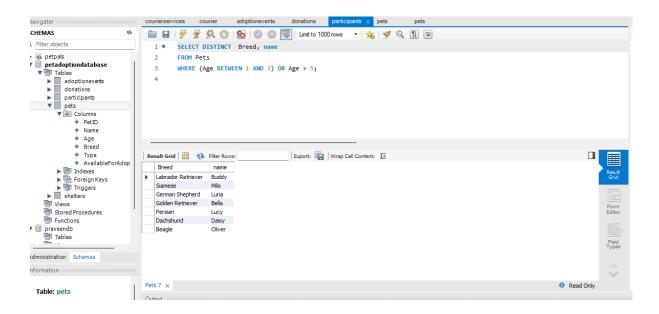


## 11. Distinct Breeds for Pets Aged 1-3 or >5 Years Query:

**SELECT DISTINCT Breed** 

**FROM Pets** 

WHERE (Age BETWEEN 1 AND 3) OR Age > 5;

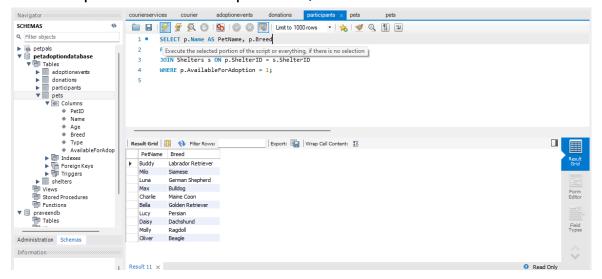


## 12. Pets and Their Respective Shelters (Available for Adoption) Query:

SELECT p.Name AS PetName, p.Breed, s.Name AS ShelterName FROM Pets p

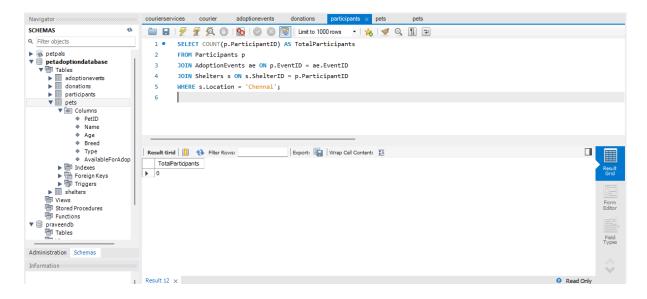
JOIN Shelters s ON p.ShelterID = s.ShelterID

WHERE p.AvailableForAdoption = 1;



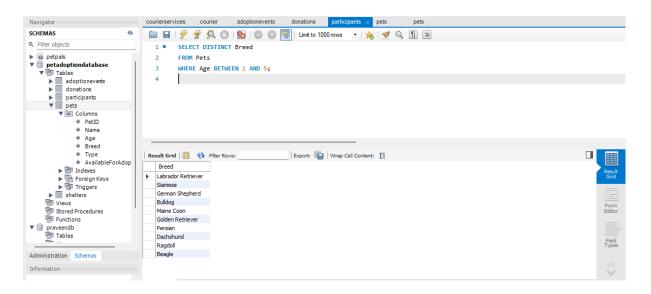
## 13. Total Participants in Events by City Query:

SELECT COUNT(p.ParticipantID) AS TotalParticipants FROM Participants p
JOIN AdoptionEvents ae ON p.EventID = ae.EventID
JOIN Shelters s ON s.ShelterID = p.ParticipantID
WHERE s.Location = 'Chennai';



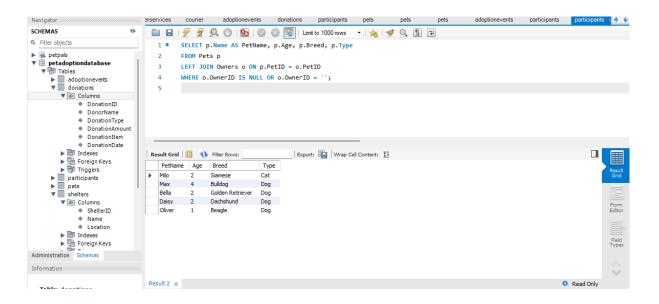
## 14. Retrieve a list of unique breeds for pets with ages between 1 and 5 years.

query: SELECT DISTINCT Breed FROM Pets WHERE Age BETWEEN 1 AND 5;



### 15. Find the pets that have not been adopted by selecting their information from the 'Pet' table.

SELECT p.Name AS PetName, p.Age, p.Breed, p.Type FROM Pets p
LEFT JOIN Owners o ON p.PetID = o.PetID
WHERE o.OwnerID IS NULL OR o.OwnerID = ";



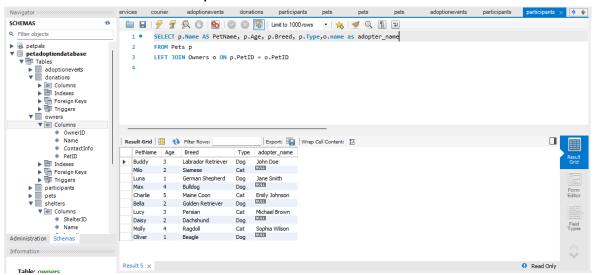
# 16. Retrieve the names of all adopted pets along with the adopter's name from the 'Adoption' and 'User' tables.

#### Query:

SELECT p.Name AS PetName, p.Age, p.Breed, p.Type,o.name as adopter\_name

From Pets p

LEFT JOIN Owners o ON p.PetID = o.PetID



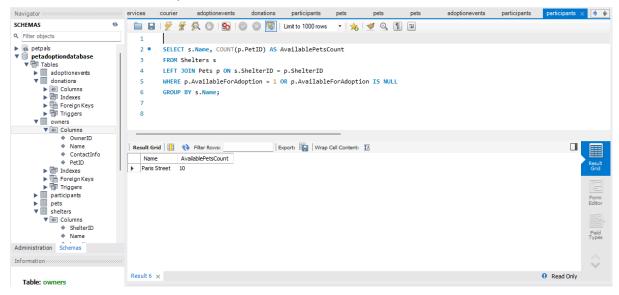
## 17. Retrieve a list of all shelters along with the count of pets currently available for adoption in each shelter.

#### Query:

SELECT s.Name, COUNT(p.PetID) AS AvailablePetsCount FROM Shelters s

LEFT JOIN Pets p ON s.ShelterID = p.ShelterID
WHERE p.AvailableForAdoption = 1 OR p.AvailableForAdoption IS
NULL

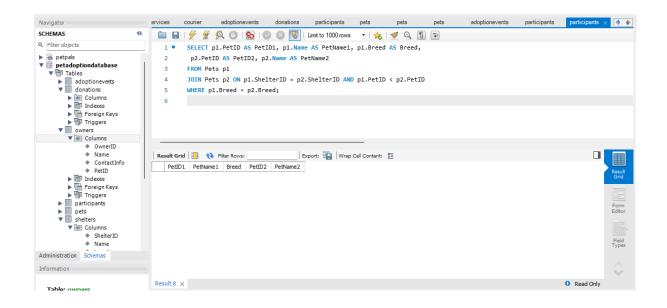
GROUP BY s.Name;



### 18. Find pairs of pets from the same shelter that have the same breed.

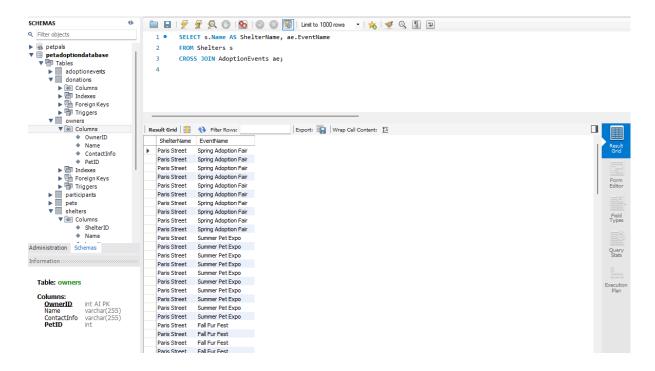
#### Query:

SELECT p1.PetID AS PetID1, p1.Name AS PetName1, p1.Breed AS Breed, p2.PetID AS PetID2, p2.Name AS PetName2 FROM Pets p1 JOIN Pets p2 ON p1.ShelterID = p2.ShelterID AND p1.PetID < p2.PetID WHERE p1.Breed = p2.Breed;



### 19. List all possible combinations of shelters and adoption events. Query:

SELECT s.Name AS ShelterName, ae.EventName FROM Shelters s CROSS JOIN AdoptionEvents ae;



20. Determine the shelter that has the highest number of adopted pets.

#### Query:

SELECT s.Name, COUNT(\*) AS Count FROM Shelters s JOIN Pets p ON s.ShelterID = p.ShelterID WHERE p.AvailableForAdoption = 0 GROUP BY s.Name

