

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

Query:

```
CREATE DATABASE IF NOT EXISTS petadoptiondatabase;  
usepetadoptiondatabaase
```

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 EXISTS 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;
```

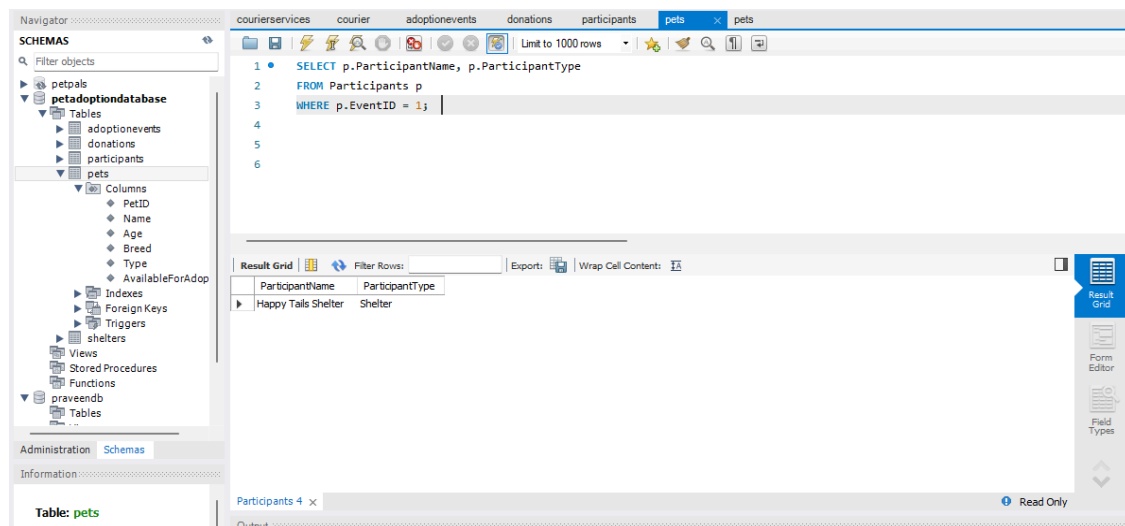
The screenshot shows a database management interface with a 'Navigator' pane on the left and a main workspace. The 'Navigator' pane shows the 'petadoptiondatabase' schema with tables: adoptionevents, donations, participants, and pets. The 'pets' table is selected, showing columns: PetID, Name, Age, Breed, Type, and AvailableForAdoption. The main workspace displays a SQL query:
1 SELECT * FROM petadoptiondatabase.pets;
2 SELECT Name, Age, Breed, Type
3 FROM Pets
4 WHERE AvailableForAdoption = 1;
5
The 'Result Grid' at the bottom shows the results of the query:

Name	Age	Breed	Type
Buddy	3	Labrador Retriever	Dog
Milo	2	Siamese	Cat
Luna	1	German Shepherd	Dog
Max	4	Bulldog	Dog
Charlie	5	Maine Coon	Cat
Bella	2	Golden Retriever	Dog
Lucy	3	Persian	Cat
Daisy	2	Dachshund	Dog
Molly	4	Ragdoll	Cat
Oliver	1	Beagle	Dog

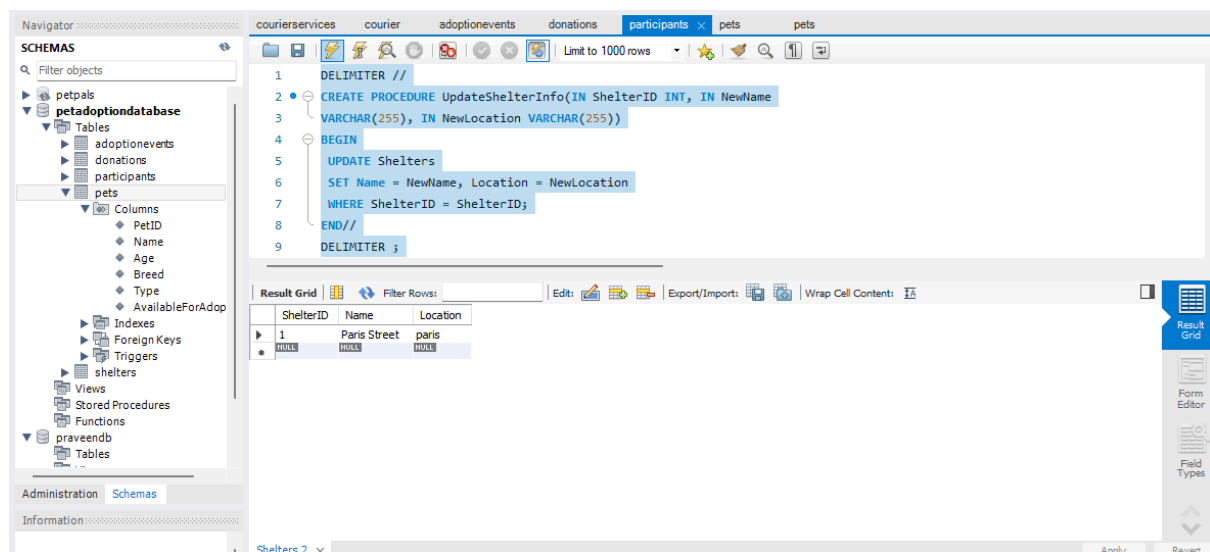
6. Write an SQL query that retrieves the names of participants (shelters and adopters) registered for a specific adoption event. Use a parameter to specify the event ID. Ensure that the query joins the necessary tables to retrieve the participant names and types

query:

```
SELECT p.ParticipantName, p.ParticipantType
FROM Participants p
WHERE p.EventID = 1;
```



7. Update Shelter Information Procedure



8. Total Donation Amount per Shelter

Navigator: courierservices courier adoptionevents donations participants pets pets

SCHEMAS

Filter objects

- petpals
- petadoptiondatabase
 - Tables
 - adoptionevents
 - donations
 - participants
 - pets
 - Columns
 - PetID
 - Name
 - Age
 - Breed
 - Type
 - AvailableForAdop
 - Indexes
 - Foreign Keys
 - Triggers
 - shelters
 - Views
 - Stored Procedures
 - Functions
 - praveendb
 - Tables

Administration Schemas

Information

Table: pets

Limit to 1000 rows

```

1 SELECT s.Name, COALESCE(SUM(d.DonationAmount), 0) AS TotalDonation
2 FROM Shelters s
3 LEFT JOIN Donations d ON s.Name = d.DonorName
4 GROUP BY s.Name;
5

```

Result Grid

Name	TotalDonation
Paris Street	0.00

Result 3 x Read Only

9. Pets Without Owners

SCHEMAS

Filter objects

- petpals
- petadoptiondatabase
 - Tables
 - adoptionevents
 - donations
 - participants
 - pets
 - Columns
 - PetID
 - Name
 - Age
 - Breed
 - Type
 - AvailableForAdop
 - Indexes
 - Foreign Keys
 - Triggers
 - shelters
 - Views
 - Stored Procedures
 - Functions
 - praveendb
 - Tables

Administration Schemas

Information

Limit to 1000 rows

```

1 SELECT Name, Age, Breed, Type
2 FROM Pets
3 WHERE AvailableForAdoption = 1;
4

```

Result Grid

Name	Age	Breed	Type
Buddy	3	Labrador Retriever	Dog
Milo	2	Siamese	Cat
Luna	1	German Shepherd	Dog
Max	4	Bulldog	Dog
Charlie	5	Maine Coon	Cat
Bella	2	Golden Retriever	Dog
Lucy	3	Persian	Cat
Daisy	2	Dachshund	Dog
Molly	4	Ragdoll	Cat
Oliver	1	Beagle	Dog

10. Total Donation per Month-Year

Navigator

SCHEMAS

Filter objects

petpals

petadoptiondatabase

Tables

adoptionevents

donations

participants

pets

Columns

PetID

Name

Age

Breed

Type

AvailableForAdop

Indexes

Foreign Keys

Triggers

shelters

Views

Stored Procedures

Functions

praveendb

Tables

Administration

Schemas

Information

Table: pets

courierservices courier adoptionevents donations participants pets pets

Limit to 1000 rows

```

1 • SELECT
2   DATE_FORMAT(DonationDate, '%Y-%m') AS MonthYear,
3   SUM(DonationAmount) AS TotalDonationAmount
4 FROM
5   Donations
6 GROUP BY
7   DATE_FORMAT(DonationDate, '%Y-%m')

```

Result Grid

MonthYear	TotalDonationAmount
2024-04	655.50

Exports

Wrap Cell Contents

Result Grid

Form Editor

Field Types

Result 5

Read Only

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

Navigator

SCHEMAS

Filter objects

petpals

petadoptiondatabase

Tables

adoptionevents

donations

participants

pets

Columns

PetID

Name

Age

Breed

Type

AvailableForAdop

Indexes

Foreign Keys

Triggers

shelters

Views

Stored Procedures

Functions

praveendb

Tables

Administration

Schemas

Information

Table: pets

courierservices courier adoptionevents donations participants pets pets

Limit to 1000 rows

```

1 • SELECT DISTINCT Breed, name
2 FROM Pets
3 WHERE (Age BETWEEN 1 AND 3) OR Age > 5;
4

```

Result Grid

Breed	name
Labrador Retriever	Buddy
Siamese	Milo
German Shepherd	Luna
Golden Retriever	Bella
Persian	Lucy
Dachshund	Daisy
Beagle	Oliver

Exports

Wrap Cell Contents

Result Grid

Form Editor

Field Types

Pets 7

Read Only

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

The screenshot shows a database management interface with a 'Schemas' pane on the left and a main query editor on the right. The 'Schemas' pane shows a database named 'petadoptiondatabase' with tables 'adoptionevents', 'donations', 'participants', and 'pets'. The 'participants' table is selected, showing columns: PetID, Name, Age, Breed, Type, and AvailableForAdop. The main query editor shows a SQL query:

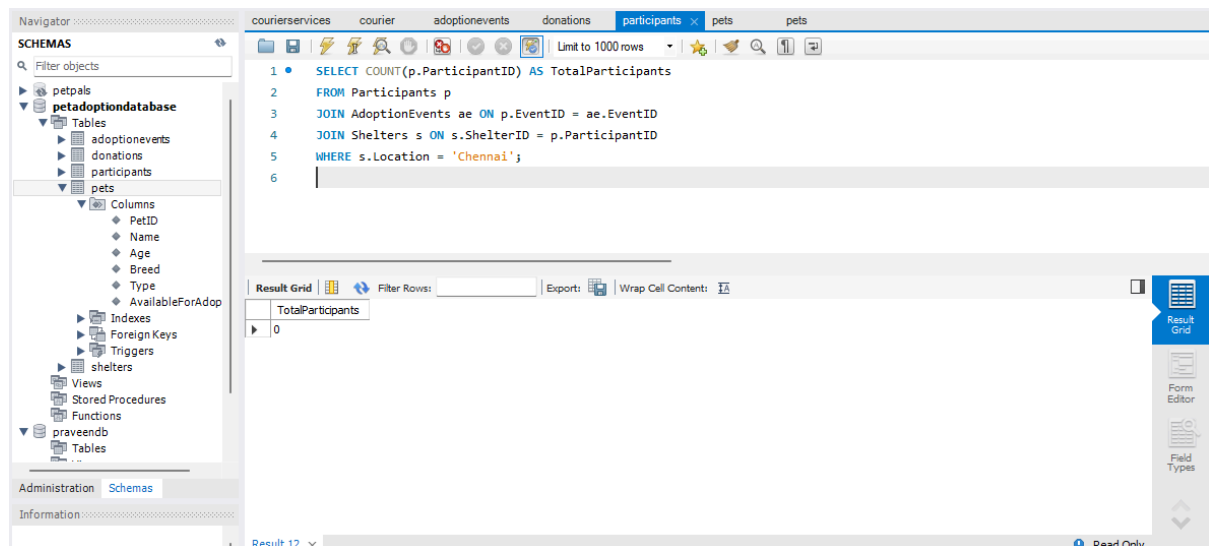
```
1 • SELECT p.Name AS PetName, p.Breed
2
3 JOIN Shelters s ON p.ShelterID = s.ShelterID
4 WHERE p.AvailableForAdoption = 1;
5
```

The query results are displayed in a 'Result Grid' below the editor. The grid shows two columns: 'PetName' and 'Breed'. The results are as follows:

PetName	Breed
Buddy	Labrador Retriever
Milo	Siamese
Luna	German Shepherd
Max	Bulldog
Charlie	Maine Coon
Bella	Golden Retriever
Lucy	Persian
Daisy	Dachshund
Molly	Ragdoll
Oliver	Beagle

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';
```

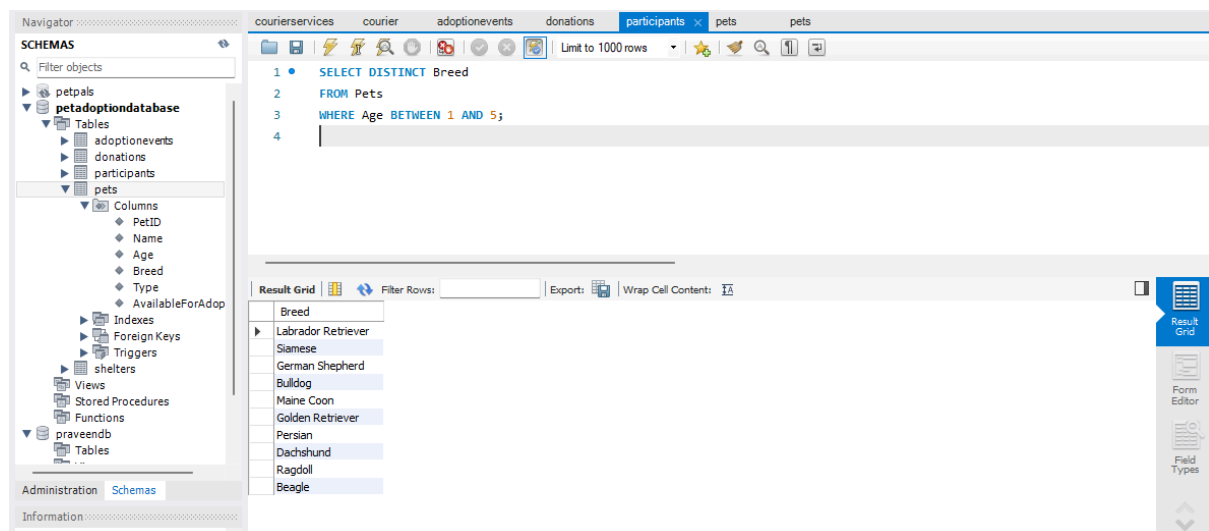


14. Retrieve a list of unique breeds for pets with ages between 1 and 5 years.

```

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 = "";

```

Navigator: petadoptiondatabase

Schemas: petadoptiondatabase

Tables: adoptionevents, donations, participants, pets, shelters

Columns: DonationID, DonorName, DonationType, DonationAmount, DonationDate, ShelterID, Name, Location

Administration: Schemas

Information: petadoptiondatabase

SQL Query:

```

1 SELECT p.Name AS PetName, p.Age, p.Breed, p.Type
2 FROM Pets p
3 LEFT JOIN Owners o ON p.PetID = o.PetID
4 WHERE o.OwnerID IS NULL OR o.OwnerID = '';
5

```

Result Grid:

PetName	Age	Breed	Type
Milo	2	Siamese	Cat
Max	4	Bulldog	Dog
Bella	2	Golden Retriever	Dog
Daisy	2	Dachshund	Dog
Oliver	1	Beagle	Dog

Result 2 x Read Only

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

Navigator: petadoptiondatabase

Schemas: petadoptiondatabase

Tables: adoptionevents, donations, participants, pets, shelters

Columns: OwnerID, Name, ContactInfo, PetID

Administration: Schemas

Information: petadoptiondatabase

SQL Query:

```

1 SELECT p.Name AS PetName, p.Age, p.Breed, p.Type, o.name as adopter_name
2 FROM Pets p
3 LEFT JOIN Owners o ON p.PetID = o.PetID
4

```

Result Grid:

PetName	Age	Breed	Type	adopter_name
Buddy	3	Labrador Retriever	Dog	John Doe
Milo	2	Siamese	Cat	Jane Smith
Luna	1	German Shepherd	Dog	Emily Johnson
Max	4	Bulldog	Dog	Michael Brown
Charlie	5	Maine Coon	Cat	Sophia Wilson
Bella	2	Golden Retriever	Dog	
Lucy	3	Persian	Cat	
Daisy	2	Dachshund	Dog	
Molly	4	Ragdoll	Cat	
Oliver	1	Beagle	Dog	

Result 5 x Read Only

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

Navigator

SCHEMAS

Filter objects

petpals

petadoptiondatabase

Tables

adoptionevents

donations

Columns

Indexes

Foreign Keys

Triggers

owners

Columns

OwnerID

Name

ContactInfo

PetID

Indexes

Foreign Keys

Triggers

participants

pets

shelters

Columns

ShelterID

Name

Administration

Schemas

Information

Table: owners

services courier adoptionevents donations participants pets pets pets adoptionevents participants participants

Limit to 1000 rows

```

1
2 SELECT s.Name, COUNT(p.PetID) AS AvailablePetsCount
3 FROM Shelters s
4 LEFT JOIN Pets p ON s.ShelterID = p.ShelterID
5 WHERE p.AvailableForAdoption = 1 OR p.AvailableForAdoption IS NULL
6 GROUP BY s.Name;
7
8

```

Result Grid

Name	AvailablePetsCount
Paris Street	10

Result 6 x

Read Only

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

Navigator

SCHEMAS

Filter objects

petpals

petadoptiondatabase

Tables

adoptionevents

donations

Columns

Indexes

Foreign Keys

Triggers

owners

Columns

OwnerID

Name

ContactInfo

PetID

Indexes

Foreign Keys

Triggers

participants

pets

shelters

Columns

ShelterID

Name

Administration

Schemas

Information

Table: owners

services courier adoptionevents donations participants pets pets pets adoptionevents participants participants

Limit to 1000 rows

```

1 SELECT p1.PetID AS PetID1, p1.Name AS PetName1, p1.Breed AS Breed,
2 p2.PetID AS PetID2, p2.Name AS PetName2
3 FROM Pets p1
4 JOIN Pets p2 ON p1.ShelterID = p2.ShelterID AND p1.PetID < p2.PetID
5 WHERE p1.Breed = p2.Breed;
6

```

Result Grid

PetID1	PetName1	Breed	PetID2	PetName2
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Result 8 x

Read Only

19. List all possible combinations of shelters and adoption events.

SCHEMAS

Filter objects

- petals
- petadoptiondatabase
 - Tables
 - adoptionevents
 - Columns
 - Indexes
 - Foreign Keys
 - Triggers
 - owners
 - Columns
 - OwnerID
 - Name
 - ContactInfo
 - PetID
 - Indexes
 - Foreign Keys
 - Triggers
 - participants
 - pets
 - shelters
 - Columns
 - ShelterID
 - Name

Administration Schemas

Information:

Table: owners

Columns:

- OwnerID int AI PK
- Name varchar(255)
- ContactInfo varchar(255)
- PetID int

```

1 • SELECT s.Name AS ShelterName, ae.EventName
2   FROM Shelters s
3  CROSS JOIN AdoptionEvents ae;
4

```

Result Grid

ShelterName	EventName
Paris Street	Spring Adoption Fair
Paris Street	Spring Adoption Fair
Paris Street	Spring Adoption Fair
Paris Street	Spring Adoption Fair
Paris Street	Spring Adoption Fair
Paris Street	Spring Adoption Fair
Paris Street	Spring Adoption Fair
Paris Street	Spring Adoption Fair
Paris Street	Spring Adoption Fair
Paris Street	Spring Adoption Fair
Paris Street	Summer Pet Expo
Paris Street	Summer Pet Expo
Paris Street	Summer Pet Expo
Paris Street	Summer Pet Expo
Paris Street	Summer Pet Expo
Paris Street	Summer Pet Expo
Paris Street	Summer Pet Expo
Paris Street	Summer Pet Expo
Paris Street	Fall Fur Fest
Paris Street	Fall Fur Fest
Paris Street	Fall Fur Fest
Paris Street	Fall Fur Fest

Result Grid

Form Editor

Field Types

Query Stats

Execution Plan

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

Navigator

SCHEMAS

Filter objects

- petals
- petadoptiondatabase
 - Tables
 - adoptionevents
 - Columns
 - Indexes
 - Foreign Keys
 - Triggers
 - owners
 - Columns
 - OwnerID
 - Name
 - ContactInfo
 - PetID
 - Indexes
 - Foreign Keys
 - Triggers
 - participants
 - pets
 - shelters
 - Columns
 - ShelterID
 - Name

Administration Schemas

```

1 • SELECT s.Name , COUNT(*) AS Count
2   FROM Shelters s
3  JOIN Pets p ON s.ShelterID = p.ShelterID
4  WHERE p.AvailableForAdoption = 0
5  GROUP BY s.Name

```

Result Grid

Name	Count
------	-------

Result 12 x

Read Only