# SQL Virtual Pet Adoption Database Project

#### Description:

A system where users can view available pets for adoption, get information about each pet (like age, type, medical history), and apply for adoption. The database will store pet details, user applications, and adoption statuses.

# **Functionalities:**

#### Browse Pets:

- View a list of all available pets for adoption.
- See detailed information about each pet, including name, type (e.g., dog, cat, bird), age, and medical history.

### • User Registration:

- Sign up to the system by providing your name, email, and phone number.
- Ensure unique email addresses for every user to avoid duplication.

### • Apply for Adoption:

- Once interested in a particular pet, apply for its adoption.
- Upon application, the status of the pet changes to 'Pending' until further processing.

#### Adoption Status:

- Check the status of your adoption application.
- Pets can have the following statuses:
  - Available: The pet is available for adoption.
  - **Pending**: An adoption application has been submitted and is awaiting approval.
  - Adopted: The pet has been successfully adopted by a user.

# View Your Adoptions:

- Access a history of all the pets you have applied for or adopted.
- View the application date and current status for each application.

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### Code:

-- Database Creation

```
CREATE DATABASE PetAdoption;
USE PetAdoption;
-- Pets Table
CREATE TABLE Pets (
 pet id INTEGER PRIMARY KEY AUTOINCREMENT,
 name VARCHAR(255) NOT NULL,
 type VARCHAR(255) NOT NULL,
 age INTEGER NOT NULL,
 medical history TEXT,
 adoption status VARCHAR(50) DEFAULT 'Available'
);
-- Users Table
CREATE TABLE Users (
 user id INTEGER PRIMARY KEY AUTOINCREMENT,
 name VARCHAR(255) NOT NULL,
 email VARCHAR(255) UNIQUE NOT NULL,
 phone VARCHAR(50) NOT NULL
);
-- Adoptions Table
CREATE TABLE Adoptions (
 adoption_id INTEGER PRIMARY KEY AUTOINCREMENT,
 pet_id INTEGER REFERENCES Pets(pet_id),
 user id INTEGER REFERENCES Users(user id),
```

application date DATE DEFAULT CURRENT DATE,

```
status VARCHAR(50) DEFAULT 'Pending'
);
```

# **Operations**

#### a) Insertion

-- Adding pets

INSERT INTO Pets (name, type, age, medical\_history) VALUES ('Whiskers', 'Cat', 2, 'Healthy');

INSERT INTO Pets (name, type, age, medical\_history) VALUES ('Rover', 'Dog', 5, 'Had a leg injury in 2021');

-- Adding users

INSERT INTO Users (name, email, phone) VALUES ('John Doe', 'john.doe@example.com', '123-456-7890'); INSERT INTO Users (name, email, phone) VALUES ('Jane Smith', 'jane.smith@example.com', '987-654-3210');

## b) Adoption Operations

- -- John Doe wants to adopt Whiskers INSERT INTO Adoptions (pet id, user id) VALUES (1, 1);
- -- Update pet's adoption status to Pending after application
  UPDATE Pets SET adoption\_status = 'Pending' WHERE pet\_id = 1;

#### c) Queries

- -- List all available pets for adoption
  SELECT \* FROM Pets WHERE adoption status = 'Available';
- -- List all pets adopted by John Doe
  SELECT Pets.name, Pets.type, Adoptions.application\_date
  FROM Pets
  JOIN Adoptions ON Pets.pet\_id = Adoptions.pet\_id
  JOIN Users ON Adoptions.user\_id = Users.user\_id
  WHERE Users.name = 'John Doe';