Final Project Proposal

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Project Name: Pet Healthcare & Homeless Animal Management Database

Description: I don't really know how to name this database. This is the idea for my INFO5100 final project. However, that final project doesn't ask for a database with the Java application, I want to design a relative database which can help me fully understand my project. I will attach some part of my 5100 final project proposal just for better explanation.

There is much information I want to store in this database. Two of the main information will be person and user account. Other's could be pet, homeless animal, pet health and homeless animal report information.

I will try my best to implement as many techniques we have learnt this semester as possible. DML statements are the basic, INSERT, UPDATE and DELETE are all involved since it's a database for management. DQL statements are used to select, analyze and get the result that we want. DCL statements should be involved since different users are responsible for different tables. I have not decided which DTL statements I should use but I will try to implement some of them such as SAVEPOINT and COMMIT.

Tables:

Table 1: User Account. Account information is used to login the system and each account is connected to a person. Fields: Account ID, User Name, User Password, Person, Account Type (Normal User, Admin, etc.)

Table 2: Pet Owners. Fields: First Name, Last Name, DOB, Age, DOB, Street, City, State, Zip Code, Email

Table 3: Pet. Fields: Pet Name, Pet Type, Pet Age

Table 4: Pet Health Records. Fields: Attributes that are related to pet health such as vital sign, haven't decided how many of them. Submission Date, Related Pet.

Table 5: Homeless animal/animals that are waiting to be adopted. Fields: Animal Type, ID, etc.

Table 6: Homeless Animal Report. Fields: Animal Type, Spot Location, Report Grade (such as emergency if the animal is in danger), person who spot the animal.

Other Tables such as Doctors or Animal Organization Staff will be almost the same as pet owners since they are all person objects.

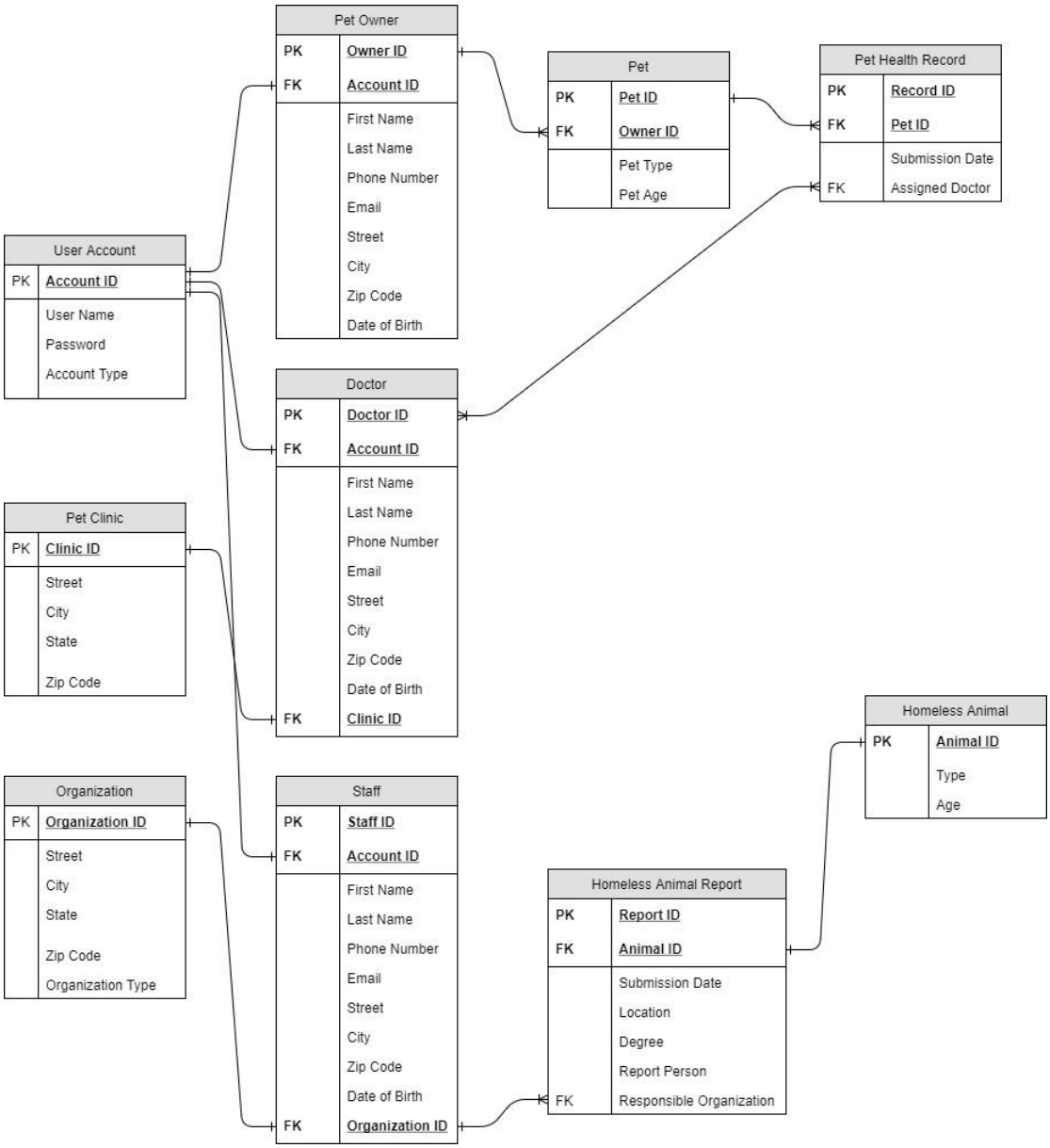
Relationships (Decided):

Each pet owner has one or more pet.

Each person has one user account.

Each pet has zero or many health records.

Rough Model:



Extra Information about the system:

Purpose: Tracking and solving pet health problems remotely before a physical visit to the animal healthcare department. Building a system for adopting animals, spotting homeless animals on the street and make the process easier. Homeless animals can bring potential transmitted diseases and environment issues to that area.

Solution: By implementing the EcoSystem Model, different networks under the system can cover different areas such as block or district. Each network covers apartments, pet clinics or other associated departments. By submitting the health information of pets, the owners can get a brief statistic report and compared to the overall data. Communicating between owners and the pet clinics can give pet owners some suggestions before taking their pets to the vet. Animal care departments such as MSPCA are also involved. They can list dogs or cats in the shelters with a profile tracking their health and behavior. Individuals can report homeless animals on the street to those departments in order to rescuer the animals in time.