Week 9 Unit 5 Assessment

Part 1: Data Modeling

Imagine you are opening a pet adoption agency where you will rescue and care for animals and try to find owners who are a good match for them.

Design a database with at least 4 tables for your pet adoption agency. Include any relationships between tables where you feel they are needed.

For example, you'll need an 'animal' table. Perhaps you have an animal species table as well. The relationship between animal species and animals is one-to-many. For every one species in the species table, you could, at most, have many animals of that species in the animals table.

**Features**

*Pets for Adoption*

- Name
- Breed
- Age
- Size
- Adoption Status

*Apply to adopt*

- Applicant name
- Email
- Phone
- Address
- Existing pets declaration
- Yard size
- Employment status

Contact Enquire

- Email
- Phone
- Address

**Tables**

Pets

- Name
- Species_id
- Breed
- Age
- Size

- Adoption Status

Users

- Username
- Password
- Fname
- Lname
- Email
- Phone
- Address

Applicants

- user_id
- Existing pets declaration
- Yard size
- Employed
- Existing pets

Existing pets

- Species_id
- Age
- user_id

Species

- Species_id
- Name

Enquire

- Facility name
- Phone
- Email
- Address

**Relationships**
**One to One**
One User has one user_id, username, PW, FN, LN, email, address & phone
One Species has one Name
One Pet has One Pet Name, age, and adoption status

**One to Many**
One Applicant can have many applications
One Pet can have many Applicants

One Facility can have Many Addresses, Phones & Emails

**Many to Many**

Many Species have Many Species Names, Breeds, Sizes