SQL Data Modeling Assessment Pet Adoption Agency

Features:

- Allow employees and customers to view animals
- Allow animals to have their own ids with photos and special characteristics/needs
- Allow employees to view details about customers(home situation, kids, age, etc.)
- Allow Matching appointments to be made
- Keep employee information for contact and access

Brainstorming/Data Needed:

- Employee ID
- Employee First Name
- Employee Last Name
- Employee Email
- Employee Password
- Employee Phone
- Customer ID
- Customer First Name
- Customer Last Name
- Customer Email
- Customer Password
- Customer Phone
- Customer City
- Customer State
- Will foster BOOLEAN

- Has_children BOOLEAN
- Has other pets BOOLEAN
- Type of Housing
- Customer Age
- Species Desired
- Animal ID
- Animal Name
- Animal Species
- Animal Photo
- Animal Gender
- Neutered/Spayed BOOLEAN
- Appointment ID
- Appointment Date
- Appointment Time

Tables:

This will hold employee access/contact information

- o Employee_id
- o Email

Employee Table:

- Password
- o First Name
- Last Name
- Phone
- Matching Appointment Table

This will keep track of the appointments and who is assigned to them (employee, customer and animal)

- Appointment ID
- Employee ID
- o Customer ID
- Pet ID
- Date of Appointment
- Time of Appointment

Customer Table:

This will hold customer information and To help match pets and make appointments.

- Customer ID
- First Name
- Last Name
- o Email
- Password
- Phone
- City
- o State
- Will foster BOOLEAN
- Has children BOOLEAN
- Has_other_pets BOOLEAN
- Type of Housing
- Age

- Animal Table
 This will hold information about the animals and their needs/preferences
 - Animal ID
 - Animal Name
 - Animal Species
 - Animal Photo
 - Animal Gender
 - Neutered/Spayed BOOLEAN
 - Good with Kids BOOLEAN
 - Needs a Yard BOOLEAN
 - High Energy BOOLEAN

Relationships:

- One to one
 - Customers => Appointment
- One to many
 - Animal => Appointment
 - Employee => Appointment
- Many to Many

CREATE TABLE employees(

employee_id SERIAL PRIMARY KEY,

Employees => Animals

Columns:

```
email VARCHAR(100),
password VARCHAR(500),
first_name VARCHAR(20),
last_name VARCHAR(20),
phone INTEGER
);
CREATE TABLE customers(
customer id SERIAL PRIMARY KEY,
email VARCHAR(100),
 password VARCHAR(500),
first_name VARCHAR(20),
last_name VARCHAR(20),
 phone INTEGER,
city VARCHAR(40),
state VARCHAR(20),
will foster BOOLEAN,
has_children BOOLEAN,
has_other_pets BOOLEAN,
type_of_housing VARCHAR(50),
age INTEGER
);
CREATE TABLE animals(
animal_id SERIAL PRIMARY KEY,
```

- Animal Employee Table
 Association table to link animals with the employees that work with them.
 - Animal ID
 - o Employee ID

```
name VARCHAR(20),
 species VARCHAR(50),
 photo TEXT,
 gender VARCHAR(20),
 spayed neutered BOOLEAN,
 good_with_kids BOOLEAN,
 needs_a_yard BOOLEAN,
 high energy BOOLEAN
CREATE TABLE appointments(
 appointment_id SERIAL PRIMARY KEY,
 animal id INTEGER NOT NULL REFERENCES animals(animal id),
 customer_id INTEGER NOT NULL REFERENCES customers(customer_id),
 employee_id INTEGER NOT NULL REFERENCES employees(employee_id),
 date of appointment TIMESTAMP,
 time_of_appointment TIMESTAMP
);
CREATE TABLE animal_employee(
animal id INTEGER NOT NULL REFERENCES animals(animal id),
employee_id INTEGER NOT NULL REFERENCES employees(employee_id)
);
```