Part 3: Data Modeling

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

Submit a diagram of your database for this project.

Drawing Tools

You can use **https://draw.io** or **http://drawings.google.com/** to create your diagram. Make sure you specify your relationships between tables in your diagram. When you're finished with your drawing, either take a screenshot or download a PDF of you diagram, add it to this repository, and push it to Github.

TABLE pet pet_id pet_age pet_name pet _address pet _health Pet_photo pet_species_id INT NOT NULL REFERENCES pet_species(pet_species_id), pet_adoption_agency _id INT NOT NULL REFERENCES pet_adoption_agency(pet_adoption_agency _id),	**TABLE pet_species** pet_species_id pet_species_behavior pet_species_nutrition pet_species_picture
TABLE pet_adoption_agency pet_adoption_agency_id pet_adoption_agency_phone pet_adoption_agency_address pet_adoption_agency_name pet_adopt_fee pet_adopt_requirement pet_care pet_adopt -FAQs pet_owner _id INT NOT NULL REFERENCES pet_owner(pet_owner_id),	**TABLE pet_owner** pet_owner_id pet_owner_email pet_owner_password pet_owner_phone pet_owner_address pet_owner_name Pet_owner_experience Pet_owner_profile picture pet_id INT NOT NULL REFERENCES pet(pet_id),

RELATIONSHIP

One to one:

One to many:

Pet owner to pet

Pet adopt agency to pet

Pet species to pet

Many to many:

Pet owner to pet adopt agency

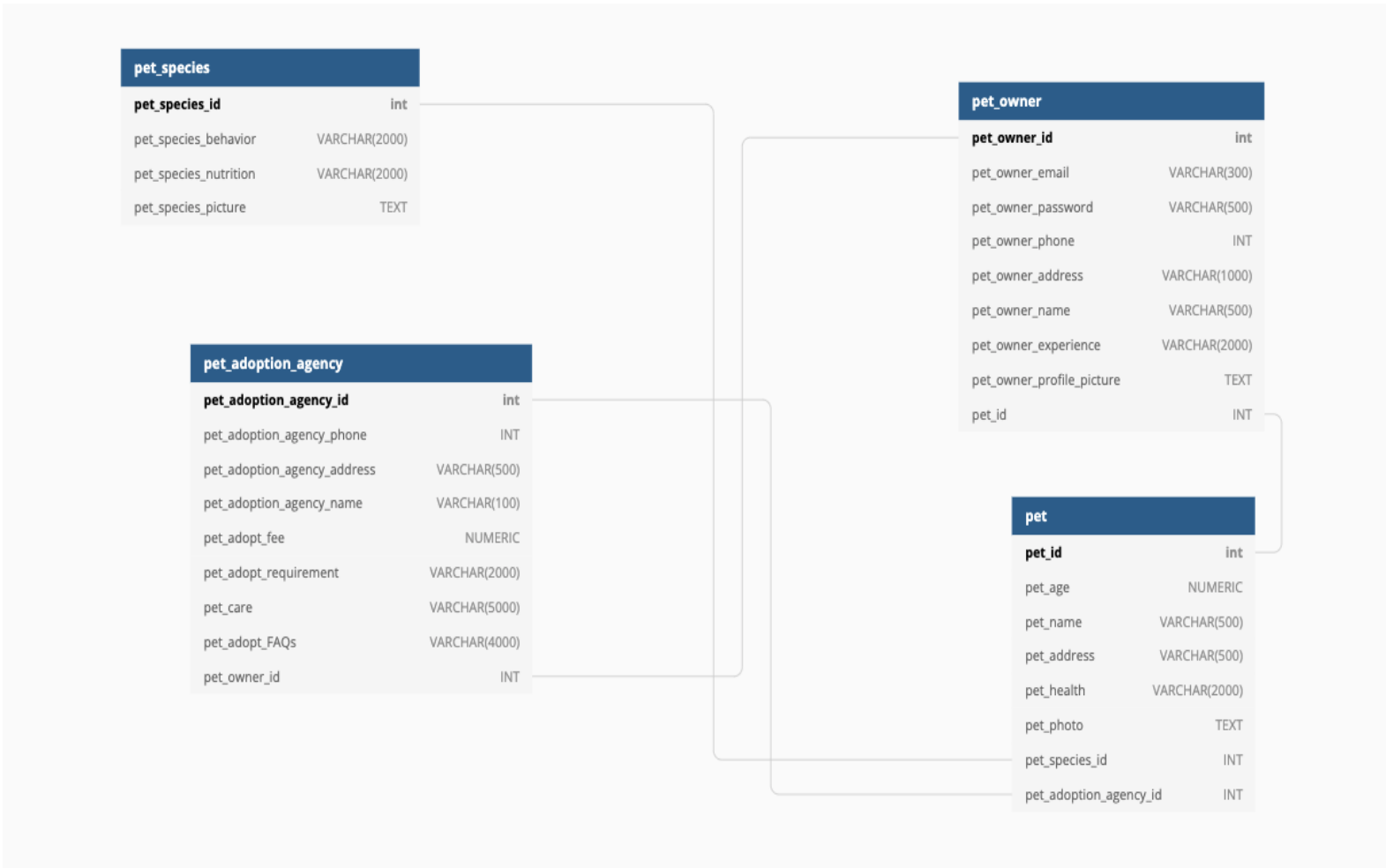
```
CREATE TABLE "pet_species" (
 "pet_species_id" SERIAL PRIMARY KEY,
 "pet_species_behavior" VARCHAR(2000),
 "pet_species_nutrition" VARCHAR(2000),
 "pet_species_picture" TEXT
);

CREATE TABLE "pet_adoption_agency" (
 "pet_adoption_agency_id" SERIAL PRIMARY KEY,
 "pet_adoption_agency_phone" INT,
 "pet_adoption_agency_address" VARCHAR(500),
 "pet_adoption_agency_name" VARCHAR(100),
 "pet_adopt_fee" NUMERIC,
 "pet_adopt_requirement" VARCHAR(2000),
 "pet_care" VARCHAR(5000),
 "pet_adopt_FAQs" VARCHAR(4000),
 "pet_owner_id" INT NOT NULL
);

CREATE TABLE "pet_owner" (
 "pet_owner_id" SERIAL PRIMARY KEY,
```

```
 "pet_owner_email" VARCHAR(300),
 "pet_owner_password" VARCHAR(500),
 "pet_owner_phone" INT,
 "pet_owner_address" VARCHAR(1000),
 "pet_owner_name" VARCHAR(500),
 "pet_owner_experience" VARCHAR(2000),
 "pet_owner_profile_picture" TEXT,
 "pet_id" INT NOT NULL
);

CREATE TABLE "pet" (
 "pet_id" SERIAL PRIMARY KEY,
 "pet_age" NUMERIC,
 "pet_name" VARCHAR(500),
 "pet_address" VARCHAR(500),
 "pet_health" VARCHAR(2000),
 "pet_photo" TEXT,
 "pet_species_id" INT NOT NULL,
 "pet_adoption_agency_id" INT NOT NULL
);
```


pet_species
pet_species_id int
pet_species_behavior VARCHAR(2000)
pet_species_nutrition VARCHAR(2000)
pet_species_picture TEXT
pet_owner
pet_owner_id int
pet_owner_email VARCHAR(300)
pet_owner_password VARCHAR(500)
pet_owner_phone INT
pet_owner_address VARCHAR(1000)
pet_owner_name VARCHAR(500)
pet_owner_experience VARCHAR(2000)
pet_owner_profile_picture TEXT
pet_id INT
pet_adoption_agency
pet_adoption_agency_id int
pet_adoption_agency_phone INT
pet_adoption_agency_address VARCHAR(500)
pet_adoption_agency_name VARCHAR(100)
pet_adopt_fee NUMERIC
pet_adopt_requirement VARCHAR(2000)
pet_care VARCHAR(5000)
pet_adopt_FAQs VARCHAR(4000)
pet_owner_id INT
pet
pet_id int
pet_age NUMERIC
pet_name VARCHAR(500)
pet_address VARCHAR(500)
pet_health VARCHAR(2000)
pet_photo TEXT
pet_species_id INT
pet_adoption_agency_id INT