Database assessment - Ieuan Boucher

Database description

The database will store data for a vet practice. It will allow the practice to keep track of the pets under their care, and what vaccinations each pet has received, alongside details and contact information for owners, and brief details of the doctors at the practice.

For each doctor at the practice, it will store:
- Doctor name
- Types of pets they treat
- Date they joined the practice

For each pet owner:
- Name
- Mailing address
- Phone number
- Email address

For each pet:
- Name
- Owner
- Pet type (e.g., dog, cat, rabbit etc.)
- Birthdate
- Vaccination records

Entity descriptions

Pet

Attribute	Type	Primary key	Foreign key	Nullable
Id	Int, autoincrement	✓	X	X
Name	Varchar(20)	X	X	X
Birthdate	Date	X	X	X
Owner_id	Int	X	✓	X
Type_id	Int	X	✓	X

Owner

Attribute	Type	Primary key	Foreign key	Nullable
Id	Int, autoincrement	✓	X	X
Name	Varchar(30)	X	X	X
Address	Varchar(40)	X	X	✓
Phone_number	Varchar(12)	X	X	✓
Email_address	Varchar(30)	X	X	✓

Vaccination

Attribute	Type	Primary key	Foreign key	Nullable
Id	Int, autoincrement	✓	X	X
Name	Varchar(20)	X	X	X
Description	Varchar(40)	X	X	✓

Doctor

Attribute	Type	Primary key	Foreign key	Nullable
Id	Int, autoincrement	✓	X	X
Name	Varchar(30)	X	X	X
Join_date	Date	X	X	X

Type

Attribute	Type	Primary key	Foreign key	Nullable
Id	Int, autoincrement	✓	X	X
animalType	Varchar(20)	X	X	X

PetVaccination

Attribute	Type	Primary key	Foreign key	Nullable
Pet_id	Int	✓	✓	X
Vaccination_id	Int	✓	✓	X

TreatedTypes

Attribute	Type	Primary key	Foreign key	Nullable
Type_id	Int	✓	✓	X
Doctor_id	Int	✓	✓	X

Entity relationship diagram

Vaccination
- **id** 🔑 int
- name varchar(20)
- description varchar(40),NULLABLE

PetVaccination
- **pet_id** 🔑 int
- **vaccination_id** 🔑 int

Pet
- **id** 🔑 int
- name varchar(20)
- birthdate date
- **owner_id** int
- **type_id** int

Owner
- **id** 🔑 int
- name varchar(30)
- address varchar(40),NULLABLE
- phone_number varchar(12),NULLABLE
- email_address varchar(30),NULLABLE

Type
- **id** 🔑 int
- animalType varchar(20)

TreatedTypes
- **type_id** 🔑 int
- **doctor_id** 🔑 int

Doctor
- **id** 🔑 int
- name varchar(30)
- join_date date