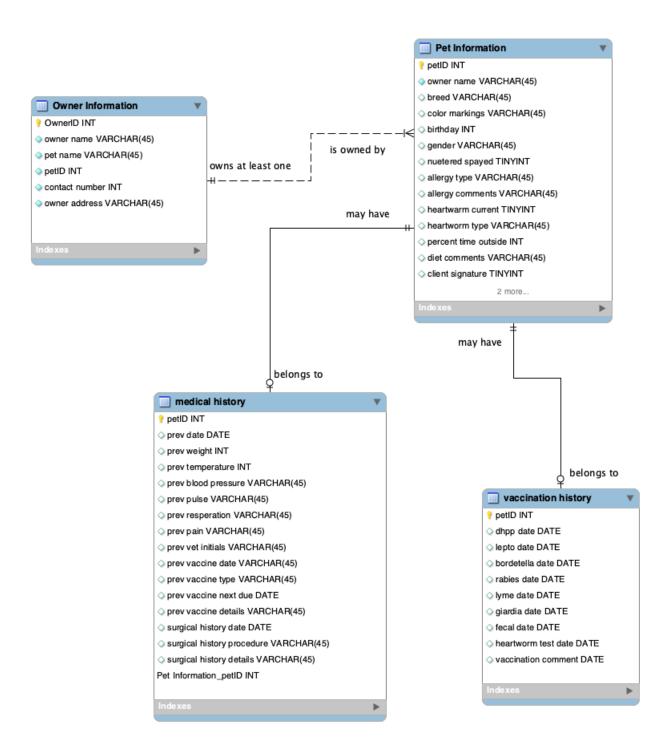
Sean McEachern CSCI - 3287 HW2 - Data Modeling

Assumptions:

- 1. ownerID and petID are generated to be unique identifiers
- 2. owner address added to owner information table
- 3. one owner can have many pets. but one pet can only have one owner
- 4. a pet may not have any medical or vaccine history

Data Model Graphic - pg.2

DDL - pg. 3



```
-- Sun Sep 27 15:45:32 2020
-- Model: New Model Version: 1.0
-- MySQL Workbench Forward Engineering
SET @OLD UNIQUE CHECKS=@@UNIQUE CHECKS, UNIQUE CHECKS=0;
SET @OLD FOREIGN KEY CHECKS=@@FOREIGN KEY CHECKS, FOREIGN KEY CHECKS=0;
SET @OLD SQL MODE=@@SQL MODE,
SQL MODE='ONLY FULL GROUP BY, STRICT TRANS TABLES, NO ZERO IN DATE, NO ZERO DA
TE, ERROR FOR DIVISION BY ZERO, NO ENGINE SUBSTITUTION';
-- Schema mydb
-- -----
-- Schema mydb
CREATE SCHEMA IF NOT EXISTS 'mydb' DEFAULT CHARACTER SET utf8;
USE `mvdb`;
-- Table `mydb`.`Owner Information`
______
DROP TABLE IF EXISTS 'mydb'. 'Owner Information';
CREATE TABLE IF NOT EXISTS 'mydb'. 'Owner Information' (
 `OwnerID` INT GENERATED ALWAYS AS () COMMENT 'Unique ID assigned to each new owner',
 `owner name` VARCHAR(45) NOT NULL,
 'pet name' VARCHAR(45) NOT NULL,
 'petID' INT GENERATED ALWAYS AS () COMMENT 'unique ID generated for each new pet',
 'contact number' INT NOT NULL COMMENT 'owner phone number',
 `owner address` VARCHAR(45) NOT NULL,
 PRIMARY KEY ('OwnerID'))
ENGINE = InnoDB;
CREATE UNIQUE INDEX 'OwnerID UNIQUE' ON 'mydb'.'Owner Information' ('OwnerID' ASC)
VISIBLE;
CREATE UNIQUE INDEX 'petID UNIQUE' ON 'mydb'.'Owner Information' ('petID' ASC) VISIBLE;
-- Table `mydb`.`vaccination history`
```

-- MySQL Script generated by MySQL Workbench

```
DROP TABLE IF EXISTS 'mydb'. 'vaccination history';
CREATE TABLE IF NOT EXISTS 'mydb'.'vaccination history' (
 'petID' INT NOT NULL,
 `dhpp date` DATE NULL,
 'lepto date' DATE NULL,
 'bordetella date' DATE NULL,
 'rabies date' DATE NULL,
 `lyme date` DATE NULL,
 `giardia date` DATE NULL,
 `fecal date` DATE NULL,
 'heartworm test date' DATE NULL.
 'vaccination comment' DATE NULL,
 PRIMARY KEY ('petID'))
ENGINE = InnoDB;
CREATE UNIQUE INDEX 'petID UNIQUE' ON 'mydb'. 'vaccination history' ('petID' ASC) VISIBLE;
-- Table `mydb`.`Pet Information`
DROP TABLE IF EXISTS 'mydb'. 'Pet Information';
CREATE TABLE IF NOT EXISTS 'mydb'. 'Pet Information' (
 `petID` INT NOT NULL COMMENT 'primary key inherited from owner information table',
 'owner name' VARCHAR(45) NOT NULL,
 'breed' VARCHAR(45) NULL,
 `color markings` VARCHAR(45) NULL,
 'birthday' INT NULL,
 'gender' VARCHAR(45) NULL,
 `nuetered spayed` TINYINT NULL,
 `allergy type` VARCHAR(45) NULL,
 `allergy comments` VARCHAR(45) NULL,
 `heartwarm current` TINYINT NULL,
 `heartworm type` VARCHAR(45) NULL,
 'percent time outside' INT NULL,
 `diet comments` VARCHAR(45) NULL,
 'client signature' TINYINT NULL,
 `Owner Information OwnerID` INT NOT NULL,
 `vacinnation history petID` INT NULL,
 PRIMARY KEY ('petID', 'vacinnation history petID'),
 CONSTRAINT 'fk Pet Information Owner Information'
```

```
FOREIGN KEY ('Owner Information OwnerID')
  REFERENCES 'mydb'.'Owner Information' ('OwnerID')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
 CONSTRAINT 'fk Pet Information vacinnation history1'
  FOREIGN KEY ('vacinnation history petID')
  REFERENCES 'mydb'.'vaccination history' ('petID')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
CREATE UNIQUE INDEX `petID UNIQUE` ON `mydb`.`Pet Information` (`petID` ASC) VISIBLE;
CREATE INDEX `fk Pet Information Owner Information idx` ON `mydb`.`Pet Information`
('Owner Information OwnerID' ASC) VISIBLE;
CREATE INDEX `fk Pet Information vacinnation history1 idx` ON `mydb`.`Pet Information`
('vacinnation history petID' ASC) VISIBLE;
-- Table `mydb`.`medical history`
DROP TABLE IF EXISTS 'mydb'. 'medical history';
CREATE TABLE IF NOT EXISTS 'mydb'. 'medical history' (
 `petID` INT NOT NULL,
 `prev date` DATE NULL,
 'prev weight' INT NULL,
 `prev temperature` INT NULL,
 'prev blood pressure' VARCHAR(45) NULL,
 `prev pulse` VARCHAR(45) NULL,
 'prev resperation' VARCHAR(45) NULL,
 `prev pain` VARCHAR(45) NULL,
 'prev vet initials' VARCHAR(45) NULL,
 `prev vaccine date` VARCHAR(45) NULL,
 `prev vaccine type` VARCHAR(45) NULL,
 'prev vaccine next due' DATE NULL,
 `prev vaccine details` VARCHAR(45) NULL,
 `surgical history date` DATE NULL,
 `surgical history procedure` VARCHAR(45) NULL,
 `surgical history details` VARCHAR(45) NULL,
 'Pet Information petID' INT NOT NULL,
 PRIMARY KEY ('petID', 'Pet Information petID'),
```

CONSTRAINT `fk_medical history_Pet Information1`
FOREIGN KEY (`Pet Information_petID`)
REFERENCES `mydb`.`Pet Information` (`petID`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;

CREATE UNIQUE INDEX 'idmedical history_UNIQUE' ON 'mydb'.'medical history' ('petID' ASC) VISIBLE;

CREATE INDEX `fk_medical history_Pet Information1_idx` ON `mydb`.`medical history` (`Pet Information_petID` ASC) VISIBLE;

SET SQL_MODE=@OLD_SQL_MODE; SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS; SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;