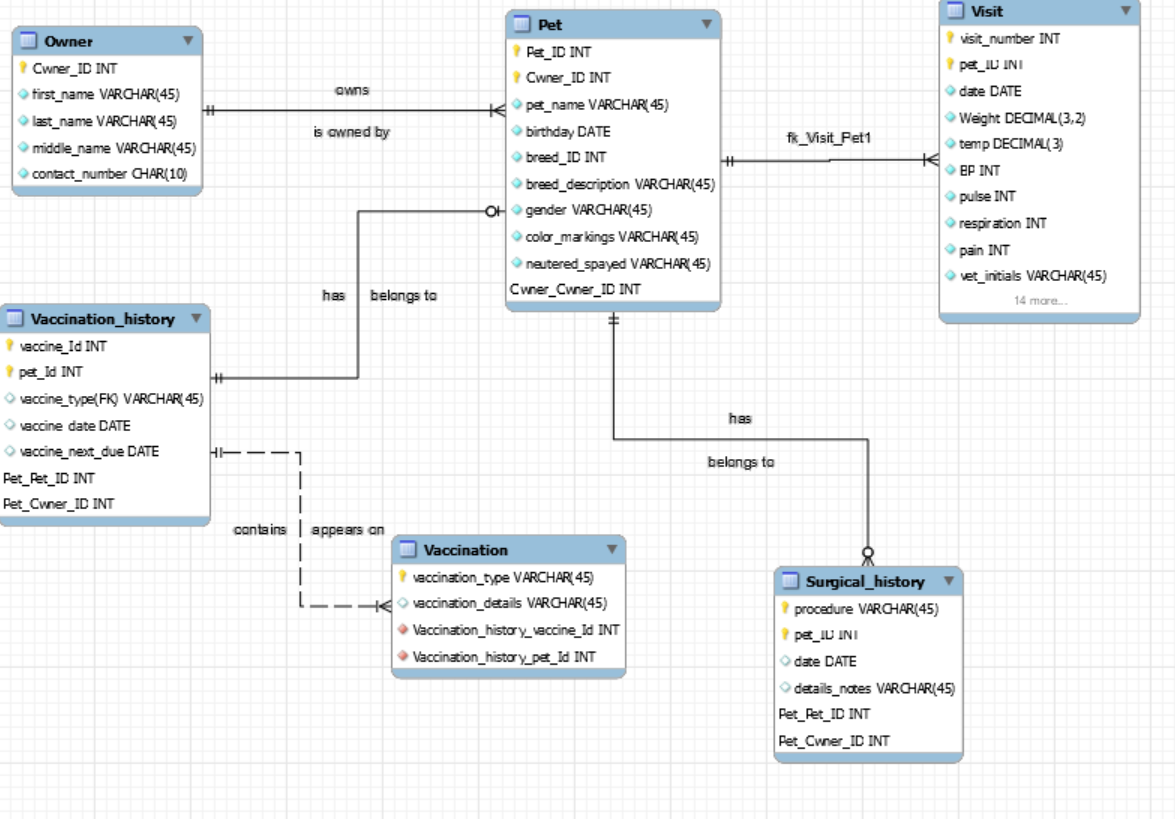
1.



2.

-- MySQL Script generated by MySQL Workbench

-- Sun Feb 16 19:17:29 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\_DATE,ERROR\_FOR\_DIVISION\_BY\_ZERO,NO\_ENGINE\_SUBSTITUTION';

-- -----------------------------------------------------

-- Schema mydb

-- -----------------------------------------------------

-- -----------------------------------------------------

-- Schema mydb

-- -----------------------------------------------------

CREATE SCHEMA IF NOT EXISTS `mydb` DEFAULT CHARACTER SET utf8 ;

USE `mydb` ;

-- -----------------------------------------------------

-- Table `mydb`.`Owner`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`Owner` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Owner` (

`Owner\_ID` INT NOT NULL AUTO\_INCREMENT,

`first\_name` VARCHAR(45) NOT NULL,

`last\_name` VARCHAR(45) NOT NULL,

`middle\_name` VARCHAR(45) NOT NULL,

`contact\_number` CHAR(10) NOT NULL,

PRIMARY KEY (`Owner\_ID`))

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Pet`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`Pet` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Pet` (

`Pet\_ID` INT NOT NULL AUTO\_INCREMENT,

`Owner\_ID` INT NOT NULL,

`pet\_name` VARCHAR(45) NOT NULL,

`birthday` DATE NOT NULL,

`breed\_ID` INT NOT NULL,

`breed\_description` VARCHAR(45) NOT NULL,

`gender` VARCHAR(45) NOT NULL,

`color\_markings` VARCHAR(45) NOT NULL,

`neutered\_spayed` VARCHAR(45) NOT NULL,

`Owner\_Owner\_ID` INT NOT NULL,

PRIMARY KEY (`Pet\_ID`, `Owner\_ID`, `Owner\_Owner\_ID`),

INDEX `fk\_Pet\_Owner1\_idx` (`Owner\_Owner\_ID` ASC) VISIBLE,

CONSTRAINT `fk\_Pet\_Owner1`

FOREIGN KEY (`Owner\_Owner\_ID`)

REFERENCES `mydb`.`Owner` (`Owner\_ID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Visit`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`Visit` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Visit` (

`visit\_number` INT NOT NULL AUTO\_INCREMENT,

`pet\_ID` INT NOT NULL,

`date` DATE NOT NULL,

`Weight` DECIMAL(3,2) NOT NULL,

`temp` DECIMAL(3) NOT NULL,

`BP` INT NOT NULL,

`pulse` INT NOT NULL,

`respiration` INT NOT NULL,

`pain` INT NOT NULL,

`vet\_initials` VARCHAR(45) NOT NULL,

`fecal\_exam\_results` VARCHAR(45) NOT NULL,

`fecal\_exam\_notes` VARCHAR(45) NOT NULL,

`heartworm\_test\_results` VARCHAR(45) NOT NULL,

`heartworm\_test\_notes` VARCHAR(45) NOT NULL,

`allergy\_name1` VARCHAR(45) NOT NULL,

`allergy\_notes1` VARCHAR(45) NOT NULL,

`allergy\_name2` VARCHAR(45) NOT NULL,

`allergy\_notes2` VARCHAR(45) NOT NULL,

`time\_spent\_outside` DECIMAL NOT NULL,

`pet\_diet` VARCHAR(45) NOT NULL,

`owner\_signiture` VARCHAR(45) NOT NULL,

`date\_signed` DATE NOT NULL,

`Pet\_Pet\_ID` INT NOT NULL,

`Pet\_Owner\_ID` INT NOT NULL,

PRIMARY KEY (`visit\_number`, `pet\_ID`, `Pet\_Pet\_ID`, `Pet\_Owner\_ID`),

INDEX `fk\_Visit\_Pet1\_idx` (`Pet\_Pet\_ID` ASC, `Pet\_Owner\_ID` ASC) VISIBLE,

CONSTRAINT `fk\_Visit\_Pet1`

FOREIGN KEY (`Pet\_Pet\_ID` , `Pet\_Owner\_ID`)

REFERENCES `mydb`.`Pet` (`Pet\_ID` , `Owner\_ID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Surgical\_history`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`Surgical\_history` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Surgical\_history` (

`procedure` VARCHAR(45) NOT NULL,

`pet\_ID` INT NOT NULL,

`date` DATE NULL,

`details\_notes` VARCHAR(45) NULL,

`Pet\_Pet\_ID` INT NOT NULL,

`Pet\_Owner\_ID` INT NOT NULL,

PRIMARY KEY (`procedure`, `pet\_ID`, `Pet\_Pet\_ID`, `Pet\_Owner\_ID`),

INDEX `fk\_Surgical\_history\_Pet1\_idx` (`Pet\_Pet\_ID` ASC, `Pet\_Owner\_ID` ASC) VISIBLE,

CONSTRAINT `fk\_Surgical\_history\_Pet1`

FOREIGN KEY (`Pet\_Pet\_ID` , `Pet\_Owner\_ID`)

REFERENCES `mydb`.`Pet` (`Pet\_ID` , `Owner\_ID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Vaccination\_history`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`Vaccination\_history` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Vaccination\_history` (

`vaccine\_Id` INT NOT NULL AUTO\_INCREMENT,

`pet\_Id` INT NOT NULL,

`vaccine\_type(FK)` VARCHAR(45) NULL,

`vaccine\_date` DATE NULL,

`vaccine\_next\_due` DATE NULL,

`Pet\_Pet\_ID` INT NULL,

`Pet\_Owner\_ID` INT NULL,

PRIMARY KEY (`vaccine\_Id`, `pet\_Id`, `Pet\_Pet\_ID`, `Pet\_Owner\_ID`),

INDEX `fk\_Vaccination\_history\_Pet1\_idx` (`Pet\_Pet\_ID` ASC, `Pet\_Owner\_ID` ASC) VISIBLE,

CONSTRAINT `fk\_Vaccination\_history\_Pet1`

FOREIGN KEY (`Pet\_Pet\_ID` , `Pet\_Owner\_ID`)

REFERENCES `mydb`.`Pet` (`Pet\_ID` , `Owner\_ID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Vaccination`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`Vaccination` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Vaccination` (

`vaccination\_type` VARCHAR(45) NOT NULL,

`vaccination\_details` VARCHAR(45) NULL,

`Vaccination\_history\_vaccine\_Id` INT NOT NULL,

`Vaccination\_history\_pet\_Id` INT NOT NULL,

PRIMARY KEY (`vaccination\_type`),

INDEX `fk\_Vaccination\_Vaccination\_history1\_idx` (`Vaccination\_history\_vaccine\_Id` ASC, `Vaccination\_history\_pet\_Id` ASC) VISIBLE,

CONSTRAINT `fk\_Vaccination\_Vaccination\_history1`

FOREIGN KEY (`Vaccination\_history\_vaccine\_Id` , `Vaccination\_history\_pet\_Id`)

REFERENCES `mydb`.`Vaccination\_history` (`vaccine\_Id` , `pet\_Id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

SET SQL\_MODE=@OLD\_SQL\_MODE;

SET FOREIGN\_KEY\_CHECKS=@OLD\_FOREIGN\_KEY\_CHECKS;

SET UNIQUE\_CHECKS=@OLD\_UNIQUE\_CHECKS;

3.

* I used auto incrementing for the surrogate keys that were a count of the number of visits
* I used surrogate keys of pet\_ID for all of the columns to link them all to the pet and in turn the owner as well