

## COMMENTS ABOUT CHANGES TO LOGICAL MODEL

## ADJUSTED REFERENTIAL INTEGRITY IN PET:

ownerNo just set Null on delete to keep valid PetNo for examination history  
 clinicNo just set null on delete to keep valid petNo for examination history

## #####SQL STATEMENTS TO MAKE TABLES

//START

```
Create Table Clinic (
    clinicNo          varchar (8),
    clinic_name       varchar(255)    NOT NULL,
    address           varchar(255)    NOT NULL,
    clinic_phone      varchar(20)     NOT NULL    CHECK (clinic_phone NOT
LIKE '%[^0-9]%),
    managerNo        varchar (8),
    PRIMARY KEY (clinicNo)
);
```

```
Create Table Staff (
    staffNo          varchar(8),
    staff_name       varchar(255)    NOT NULL,
    staff_address    varchar(255),
    staff_phone      varchar(20)     CHECK (staff_phone not like '%[^0-
9]%),
    DOB              date            NOT NULL,
    salary           int             NOT NULL,
    position         varchar(255),
    clinicNo        varchar(8),
    PRIMARY KEY (staffNo)
);
```

```
ALTER TABLE Clinic ADD CONSTRAINT fk_managerNo FOREIGN KEY (managerNo)
REFERENCES Staff(staffNo) ON DELETE SET NULL;
ALTER TABLE Staff ADD CONSTRAINT fk_clinicNo FOREIGN KEY (clinicNo)
REFERENCES Clinic(clinicNo) ON DELETE SET NULL;
```

```
Create Table Owner (
    ownerNo          varchar(8),
    owner_name       varchar(255)    NOT NULL,
    owner_address    varchar(255),
    owner_phone      varchar(20)     NOT NULL    CHECK (owner_phone not like
'%[^0-9]%),
    PRIMARY KEY (ownerNo)
);
```

```
Create Table Pet (  
    petNo          varchar(8),  
    pet_name       varchar(255),  
    pet_DOB        date,  
    species        varchar(255),  
    breed          varchar(255),  
    color          varchar(255),  
    ownerNo        varchar(8),  
    clinicNo       varchar(8),  
    PRIMARY KEY (petNo),  
    FOREIGN KEY (ownerNo) references Owner      ON DELETE SET NULL,  
    FOREIGN KEY (clinicNo) references Clinic    ON DELETE SET NULL  
);
```

```
CREATE TABLE Examination (  
    examNo          varchar(8),  
    chief_complaint varchar(255),  
    description      varchar(255),  
    exam_date        date          NOT NULL,  
    actions_taken    varchar(255),  
    staffNo          varchar(8)     NOT NULL,  
    petNo            varchar(8)     NOT NULL,  
    PRIMARY KEY (examNo),  
    FOREIGN KEY (staffNo) references Staff,  
    FOREIGN KEY (petNo) references Pet  
);
```

#### ##### SQL INSERT STATMENTS

```
INSERT INTO Clinic  
VALUES('CL551155', 'Atsbury Vale Pawesome', '555 Relevance Street, Miami,  
Florida', 5055055505, null);  
INSERT INTO Clinic  
VALUES('CL551156', 'Trainsbury Vale Pawesome', '444 Irrelevant Street,  
Miami, Florida', 6066066606, null);  
INSERT INTO Clinic  
VALUES('CL111111', 'Range Rider Pawesome', '123 MadeUp Street, Hollywood,  
Florida', 1231239876, null);  
INSERT INTO Clinic  
VALUES('CL999999', 'Open Window Pawesome', '6091 Shutter Rd, Vilewood,  
Ohio', 111111111111, null);  
INSERT INTO Clinic  
VALUES('CL222222', 'Best Value Pawesome', '1999 BestValue Street, Money,  
New York', 9999999999, null);  
  
INSERT INTO Staff  
VALUES ('ST000000', 'Mr. Pawesome', '1111 Pawesome Road, Pawesome Town,  
Florida', '9989989998', DATE '1960-01-01', 1000000, 'CEO', 'CL111111');  
INSERT INTO Staff  
VALUES ('ST444555', 'Richard Price', '222 Steal Road, Rome, New York',
```

```
'4561237890', DATE '1999-05-12', 100000, 'Manager', 'CL222222');
INSERT INTO Staff
VALUES ('ST999999', 'Vet Erinarian', '554 Pet Lover St, Pawesome Town,
Florida', '9989989998', DATE '1989-04-22', 800000, 'Veterinarian',
'CL551155');
INSERT INTO Staff
VALUES ('ST555555', 'John Doe', '111 Road Road, Town Town, State State',
'1010100011', DATE '2001-11-28', 50000, 'Front Desk', 'CL222222');
INSERT INTO Staff
VALUES ('ST111111', 'Something Cool', '2005 Old Town Road, Lil Nas Town,
Oregon', '1234561234', DATE '2005-04-01', 80000, 'Veterinarian',
'CL999999');
INSERT INTO Staff
VALUES ('ST666666', 'Drew Freeze', '1002 Johnt Rd, Jackson, Florida',
'4443330091', DATE '1992-11-01', 90000, 'Veterinarian', 'CL551156');

UPDATE CLINIC
SET managerNo = 'ST000000'
WHERE clinicNo = 'CL111111';
UPDATE CLINIC
SET managerNo = 'ST444555'
WHERE clinicNo = 'CL222222';
UPDATE CLINIC
SET managerNo = 'ST999999'
WHERE clinicNo = 'CL551155';
UPDATE CLINIC
SET managerNo = 'ST111111'
WHERE clinicNo = 'CL999999';

INSERT INTO Owner
Values ('OW555555', 'Best Friend', '123 Friend St, Friendtown, Texas',
'9999990000');
INSERT INTO Owner
Values ('OW111111', 'Worst Friend', '124 Friend St, Friendtown, Texas',
'8877655309');
INSERT INTO Owner
Values ('OW222222', 'John Cena', '4432 Anchor Rd, Allen, Florida',
'9827737465');
INSERT INTO Owner
Values ('OW333333', 'Alfred Batman', '2239 Color Blvd, Portland, Florida',
'1020020004');
INSERT INTO Owner
Values ('OW444444', 'Amon Gus', ' 1 Overgrowth Rd, Vilewood, Ohio',
'4324324433');

INSERT INTO Pet
Values ('PT000000', 'Bubbles Cena', DATE '2020-09-09', 'Dog', 'Terrier',
'Natural Blonde', 'OW222222', 'CL999999');
INSERT INTO Pet
Values ('PT111111', 'Catman', DATE '2020-07-19', 'Cat', 'Short-Hair',
```

```
'Tuxedo', 'OW333333', 'CL111111');
INSERT INTO Pet
Values ('PT222222', 'Milo', DATE '2020-06-15', 'Cat', 'Short-Hair',
'Tuxedo', 'OW444444', 'CL999999');
INSERT INTO Pet
Values ('PT333333', 'Jessie Friend', DATE '2017-09-20', 'Dog', 'Husky',
'White/Black', 'OW111111', 'CL551155');
INSERT INTO Pet
Values ('PT444444', 'Crazy Frog', DATE '2022-11-20', 'Frog', 'Frog',
'Green', 'OW555555', 'CL222222');

INSERT INTO Examination
Values('EX000000', 'Dog was having trouble using the restroom', 'Terrier is
stopped up!', DATE '2022-11-28', 'Unclogged the Dog', 'ST111111',
'PT000000');
INSERT INTO Examination
Values('EX111111', 'Cat was meowing too loud', 'Small kitten has vocal
chords that are three times too large', DATE '2022-07-30', 'Gave the cat
growth hormones so he will grow to the size of his vocal chords',
'ST000000', 'PT111111');
INSERT INTO Examination
Values('EX222222', 'Dog is still having trouble using the restroom',
'Terrier is still stopped up!', DATE '2022-12-02', 'Unclogged the dog
again', 'ST111111', 'PT000000');
INSERT INTO Examination
Values('EX333333', 'Frog laid its eggs, but has not been eating since',
'Small green frog is underweight and needs to be given nutrients', DATE
'2022-01-28', 'Fed the Frog', 'ST444555', 'PT444444');
INSERT INTO Examination
Values('EX444444', 'Dog has been fainting on walks', 'Large Male Husky has
irregular heartbeat', DATE '2022-07-18', 'Gave the owner medication to give
the dog once a day', 'ST999999', 'PT333333');
```

## 5 Queries

List all staff and the clinic they work at with salary greater than 100000\$

```
Select staff_name, staffNo, salary, clinic_name
FROM Staff s, Clinic c
WHERE salary > 100000 AND s.clinicNo = c.clinicNo
Group BY clinic_name, staff_name, staffNo, salary
```

List All clinics that do not have a manager

```
Select *
FROM Clinic
WHERE managerNo IS NULL
```

List the number of staff at each clinic

```
select COUNT(staffNo) as numStaff, c.clinicNo, clinic_name
FROM Staff s, Clinic c
Where s.clinicNo = c.clinicNo
GROUP BY c.clinicNo, clinic_name
```

List the managers and their respective location

```
SELECT s.*, clinic_name
FROM Staff s, Clinic c
WHERE c.managerNo = s.staffNo
```

List All Exams Done by "Something Cool"

```
SELECT e.*
FROM Examination e, Staff s
WHERE e.staffNo = s.staffNo and staff_name IS "Something Cool"
```