University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 2

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Group Number: 18

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

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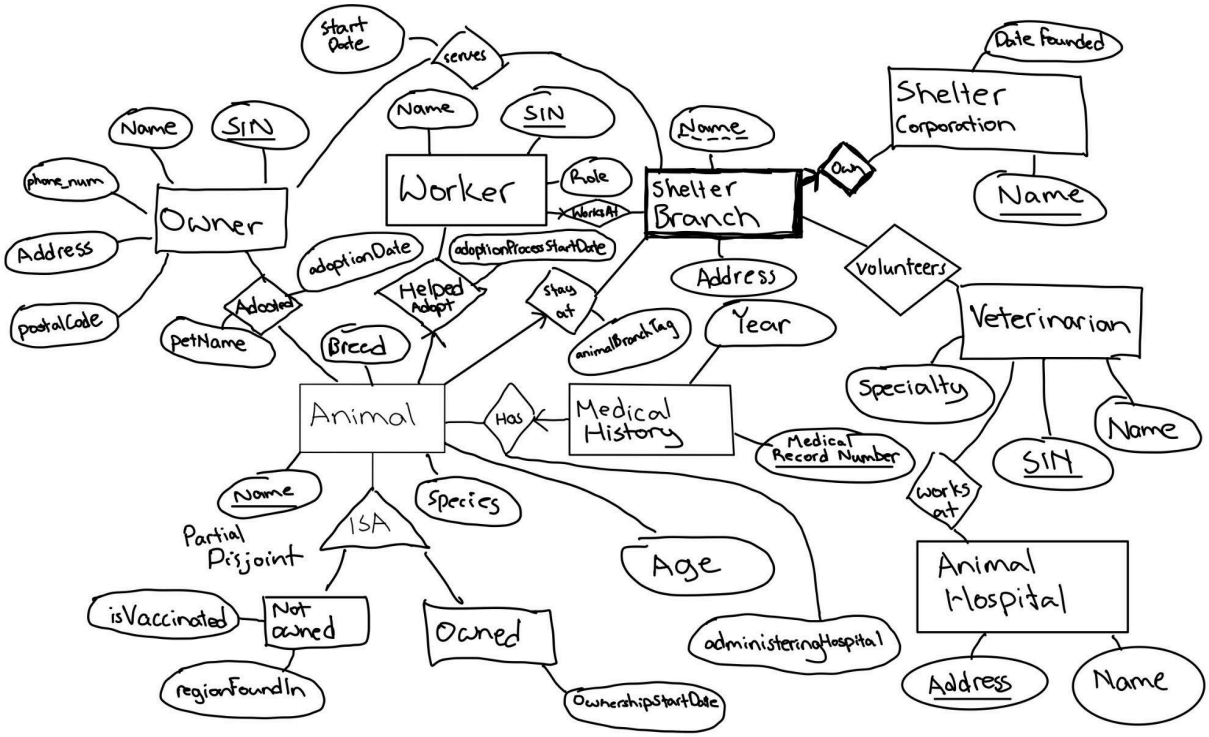
Project summary

Our project models a pet adoption system managed by an animal shelter. This shelter serves clients who can adopt pets staying at the animal shelter. The shelter is just one branch that is owned by a shelter corporation which manages animal shelter branches within a certain region of the country. Moreover, the shelter is associated with an animal hospital which manages the health of the sheltered animals. In the hospital, veterinarians are responsible for administering vaccines for animals at the shelter and performing monthly health-checkups.

ER Diagram



Changes to ER Diagram From Milestone 1:

- Added isVaccinated and regionFoundIn attributes to NotOwned Animal entity set
- Added ownershipStartDate attribute to Owned Animal entity set
- Animal ISA changed from “Total Disjoint” to “Partial Disjoint” because some animals can be neither owned nor unowned, such as an animal being fostered.
- Added relationship between Worker and ShelterBranch entity sets called WorksAt
- Added attribute postalCode to Owner entity set

Schemas and DDL Statements

In the following schemas and DDL statements, primary keys are underlined, foreign keys are bolded and partial keys are italicized:

Note: For all 'varchar(200)' data types, we meant to say 'varchar(200)(100)' due to syntax issues however, we didn't have the time to make this change.

AnimalHelpedAdopt(name: varchar(200), species: varchar(200), breed: varchar(200), age: integer, adoptionProcessStartDate: date, **workerSIN**: char(8))

```
CREATE TABLE AnimalHelpedAdopt(
        name varchar(200),
        species varchar(200),
        breed varchar(200),
        age: int,
        adoptionProcessStartDate: date,
        workerSIN: char(8),
        PRIMARY KEY (name),
        FOREIGN KEY (workerSIN) REFERENCES Worker
                ON DELETE CASCADE
);
```

NotOwnedAnimal(**animalName**: varchar(200), isVaccinated: boolean, regionFoundIn: varchar(200))

```
CREATE TABLE NotOwnedAnimal(
        name: varchar(200),
        isVaccinated: boolean,
        regionFoundIn: varchar(200),
        PRIMARY KEY (name),
        FOREIGN KEY (animalName) REFERENCES Animal
                ON DELETE CASCADE
);
```

OwnedAnimal(**animalName**: varchar(200), ownershipStartDate: date)

```
CREATE TABLE OwnedAnimal(
        animalName: varchar(200),
        ownershipStartDate: date,
        PRIMARY KEY (animalName),
        FOREIGN KEY (animalName) REFERENCES Animal
                ON DELETE CASCADE
);
```

AnimalStayInfo(**animalName**: varchar(200), animalBranchTag: char(9))

```
CREATE TABLE AnimalStayInfo(
        animalName: varchar(200),
```

```
        animalBranchTag: char(9),
        PRIMARY KEY (animalName),
        FOREIGN KEY (animalName) REFERENCES AnimalHelpedAdopt
                ON DELETE CASCADE
);
```

Owner(<u>sin:</u> char(8), name: varchar(200), phone_num: char(10), address:varchar(200))

```
CREATE TABLE Owner(
        sin: char(8),
        name: varchar(200),
        phone_num: char(10) UNIQUE,
        address: varchar(200) NOT NULL,
        PRIMARY KEY (sin)
);
```

Adopted(**<u>ownerSIN</u>:** char(8)**, <u>animalName</u>:** char(20)**,** adoptionDate: date, petName: varchar(200))

```
CREATE TABLE Adopted(
        ownerSIN: char(8),
        animalName: char(20),
        adoptionDate: date,
        petName: varchar(200),
        PRIMARY KEY (ownerSIN, animalName),
        FOREIGN KEY (ownerSIN) REFERENCES Owner
                ON DELETE CASCADE,
        FOREIGN KEY (animalName) REFERENCES Animal
                ON DELETE CASCADE
);
```

WorkerWorksAt(<u>sin</u>: char(8), name: varchar(200), role: varchar(200), ***branchName****:* varchar(200), **corporationName**: varchar(200))

```
CREATE TABLE WorkerWorksAt(
        sin: char(8),
        name: varchar(200),
        role: varchar(200),
        corporationName: varchar(200),
        branchName: varchar(200),
        PRIMARY KEY (sin),
        FOREIGN KEY (branchName, corporationName) REFERENCES ShelterBranchInfo
                ON DELETE CASCADE
);
```

ShelterCorporation(<u>name</u>: varchar(200), dateFounded: date)

```
CREATE TABLE ShelterCorporation(
        Name varchar(200),
```

```
        dateFounded date NOT NULL,
        PRIMARY KEY (name)
);
```

ShelterBranchInfo(**corporationName**: varchar(200), *branchName*: varchar(200), branchAddress: varchar(200))

```
CREATE TABLE ShelterBranchInfo(
        corporationName: varchar(200),
        branchName: varchar(200) NOT NULL,
        branchAddress: varchar(200),
        PRIMARY KEY (corporationName, branchName),
        FOREIGN KEY (corporationName) REFERENCES (ShelterCorporation)
                ON DELETE CASCADE
);
```

BranchServiceInfo(***branchName***: varchar(200), **corporationName**: varchar(200), ownerSIN: char(8), serviceStartDate: date)

```
CREATE TABLE BranchServiceInfo(
        branchName varchar(200)(100),
        corporationName varchar(200)(100),
        ownerSIN: char(8),
        serviceStartDate: date,
        PRIMARY KEY (ownerSIN, branchName, corporationName),
        FOREIGN KEY (branchName, corporationName) REFERENCES ShelterBranchInfo
                ON DELETE CASCADE
);
```

AnimalHospital(hospitalAddress: varchar(200), name: varchar(200))

```
CREATE TABLE AnimalHospital(
        hospitalAddress varchar(200),
        name varchar(200),
        PRIMARY KEY (hospitalAddress)
);
```

VeterinarianWorkInfo(**vetSIN**: char(8), **hospitalAddress**: varchar(200))

```
CREATE TABLE VeterinarianWorkInfo(
        vetSIN: char(8),
        hospitalAddress: varchar(200),
        PRIMARY KEY (vetSIN, hospitalAddress),
        FOREIGN KEY (hospitalAddress) REFERENCES AnimalHospital
                ON DELETE CASCADE,
        FOREIGN KEY (vetSIN) REFERENCES VeterinarianInfo
                ON DELETE CASCADE
);
```

VeterinarianVolunteerInfo(**vetSIN**: char(8), ***branchName***: varchar(200), **corporationName**: varchar(200), volunteerStartDate: date)

```
CREATE TABLE VeterinarianVolunteerInfo(
        vetSIN: char(8),
        branchName: varchar(200),
        corporationName: varchar(200),
        PRIMARY KEY (vetSIN, branchName, corporationName),
        FOREIGN KEY (vetSIN) REFERENCES VeterinarianInfo
                ON DELETE CASCADE,
        FOREIGN KEY (branchName, corporationName) REFERENCES ShelterBranchInfo
                ON DELETE CASCADE
);
```

VeterinarianInfo(vetSIN: char(8), specialty: varchar(200), name: varchar(200))

```
CREATE TABLE VeterinarianInfo(
        vetSIN: char(8),
        specialty: varchar(200)
        name: varchar(200),
        PRIMARY KEY (vetSIN)
);
```

AnimalMedicalHistory(medicalRecordNumber: int, **animalName**: varchar(200), administeringHospital: varchar(200), yearOfRecord: int)

```
CREATE TABLE AnimalMedicalHistory(
        medicalRecordNumber: char(9),
        animalName: varchar(200) UNIQUE,
        administeringHospital: varchar(200),
        yearOfRecord: int,
        PRIMARY KEY (medicalRecordNumber),
        FOREIGN KEY (animalName) REFERENCES Animal
                ON DELETE CASCADE
);
```

Schemas and Functional Dependencies

AnimalHelpedAdopt(name: varchar(200), species: varchar(200), breed: varchar(200), age: integer, adoptionProcessStartDate: date, **workerSIN**: char(8))

- name → species
- name → breed
- name → age
- name → workerSIN
- breed → species
- workerSIN → species

NotOwnedAnimal(**animalName**: varchar(200), isVaccinated: boolean, regionFoundIn: varchar(200))

- animalName → isVaccinated
- animalName → regionFoundIn

OwnedAnimal(**animalName**: varchar(200), ownershipStartDate: date)

- animalName → ownershipStartDate

AnimalStayInfo(**animalName**: varchar(200), animalBranchTag: char(9))

- animalName -> animalBranchTag

Owner(sin: char(8), name: varchar(200), phone_num: char(10), address: varchar(200), postalCode: char(6))

- sin → name
- sin → phone_num
- sin → address
- sin → postalCode
- phone_num → name
- phone_num → phone_num
- phone_num → address
- phone_num → postalCode
- address → postalCode

Adopted(**ownerSIN:** char(8)**, animalName:** char(20)**,** adoptionDate: date, petName: varchar(200))

- ownerSIN, animalName -> adoptionDate
- ownerSIN, animalName -> petName

WorkerWorksAt(sin: char(8), name: varchar(200), role: varchar(200), ***branchName****:* varchar(200), **corporationName**: varchar(200))

- sin → name
- sin → role
- sin → branchName
- sin → corporationName
- branchName → corporationName

ShelterCorporation(name: varchar(200), dateFounded: date)

- name → dateFounded

ShelterBranchInfo(**corporationName**: varchar(200), *branchName*: varchar(200), branchAddress: varchar(200))

- corporationName, branchName → branchAddress

BranchServiceInfo(***branchName***: varchar(200), **corporationName**: varchar(200), ownerSIN: char(8), serviceStartDate: date)

- ownerSIN, corporationName → serviceStartDate
- ownerSIN, corporationName → branchName

AnimalHospital(hospitalAddress: varchar(200), name: varchar(200))

- hospitalAddress → name

VeterinarianWorkInfo(**vetSIN**: char(8), **hospitalAddress**: varchar(200))

VeterinarianVolunteerInfo(**vetSIN**: char(8), ***branchName***: varchar(200), **corporationName**: varchar(200), volunteerStartDate: date)

- vetSIN, corporationName → volunteerStartDate
- vetSIN, corporationName → branchName

VeterinarianInfo(vetSIN: char(8), specialty: varchar(200), name: varchar(200))

- vetSIN → specialty
- vetSIN → name

AnimalMedicalHistory(medicalRecordNumber: integer, **animalName**: varchar(200), administeringHospital: varchar(200), yearOfRecord: integer)

- medicalRecordNumber -> administeringHospital
- medicalRecordNumber → yearOfRecord
- medicalRecordNumber → animalName
- animalName -> medicalRecordNumber
- animalName -> administeringHospital

Decomposed Schemas

AnimalHelpedAdopt1(breed: varchar(200), species: varchar(200))
AnimalHelpedAdopt2(name: varchar(200), age: integer, adoptionProcessStartDate: date, breed: varchar(200), workerSIN: char(8))
Owner1(sin: char(8), name: varchar(200), phone_num: char(10), address: varchar(200))
Owner2(address: varchar(200), postalCode: char(6))
WorkerWorksAt1(***branchName**:* varchar(200), **corporationName**: varchar(200))
WorkerWorksAt2(***branchName**:* varchar(200), sin: char(8), name: varchar(200), role: varchar(200))

Post Normalization DDL Statements and Insertions

```
CREATE AnimalHelpedAdopt1(
        breed : varchar(200),
        species: varchar(200),
        PRIMARY KEY (breed)
);

INSERT
INTO   AnimalHelpedAdopt1(breed, species)
VALUES (‘German Shepherd’, ‘Dog’);

INSERT
INTO   AnimalHelpedAdopt1(breed, species)
VALUES (‘American Short Hair’, ‘Cat’);

INSERT
INTO   AnimalHelpedAdopt1(breed, species)
VALUES (‘Golden Retriever’, ‘Dog’);

INSERT
INTO   AnimalHelpedAdopt1(breed, species)
VALUES (‘Tibetan Mastiff’, ‘Dog’);

INSERT
```

```
INTO   AnimalHelpedAdopt1(breed, species)
VALUES (‘Maine Coon’, ‘Cat’);

CREATE AnimalHelpedAdopt2(
        name: varchar(200),
        age: int,
        adoptionProcessDate: date,
        breed: varchar(200),
        workerSIN: char(8),
        PRIMARY KEY (adoptionProcessDate),
        FOREIGN KEY (breed) REFERENCES AnimalHelpedAdopt1
                ON DELETE CASCADE
);

INSERT
INTO   AnimalHelpedAdopt2(name, age, adoptionProcessDate, breed, workerSIN)
VALUES (‘Snoopy’, ‘1’, ‘2022/11/20’, ‘German Shepherd’, ‘12345678’);

INSERT
INTO   AnimalHelpedAdopt2(name, age, adoptionProcessDate, breed, workerSIN)
VALUES (‘Buddy’, ‘3’, ‘2020/11/20’, ‘American Short Hair’, ‘12345677’);
INSERT
INTO   AnimalHelpedAdopt2(name, age, adoptionProcessDate, breed, workerSIN)
VALUES (‘Felix’, ‘5’, ‘2018/11/20’, ‘Golden Retriever’, ‘12345676’);

INSERT
INTO   AnimalHelpedAdopt2(name, age, adoptionProcessDate, breed, workerSIN)
VALUES (‘Bowen’, ‘7’, ‘2016/11/20’, ‘Tibetan Mastiff’, ‘12345675’);

INSERT
INTO   AnimalHelpedAdopt2(name, age, adoptionProcessDate, breed, workerSIN)
VALUES (‘Haad’, ‘9’, ‘2014/11/20’, ‘Maine Coon’, ‘12345674’);

CREATE TABLE NotOwnedAnimal(
        name: varchar(200),
        isVaccinated: boolean,
        regionFoundIn: varchar(200),
        PRIMARY KEY (name),
        FOREIGN KEY (animalName) REFERENCES Animal
                ON DELETE CASCADE
);

INSERT
INTO NotOwnedAnimal(name, isVaccinated, regionFoundIn)
VALUES (‘Triston’, ‘False’, ‘White Rock’);
```

```
INSERT
INTO NotOwnedAnimal(name, isVaccinated, regionFoundIn)
VALUES (‘Dhanav’, ‘True’, ‘Burnaby’);

INSERT
INTO NotOwnedAnimal(name, isVaccinated, regionFoundIn)
VALUES (‘Baby’, ‘False’, ‘Seattle’);

INSERT
INTO NotOwnedAnimal(name, isVaccinated, regionFoundIn)
VALUES (‘Kiddo’, ‘True’, ‘Vancouver’);

INSERT
INTO NotOwnedAnimal(name, isVaccinated, regionFoundIn)
VALUES (‘Mariana’, ‘False’, ‘UBC’);
```

```
CREATE TABLE OwnedAnimal(
        animalName: varchar(200),
        ownershipStartDate: date,
        PRIMARY KEY (animalName),
        FOREIGN KEY (animalName) REFERENCES Animal
                ON DELETE CASCADE
);

INSERT
INTO OwnedAnimal(animalName, ownershipStartDate)
VALUES (‘Scoopy’, ‘2020/11/30’);

INSERT
INTO OwnedAnimal(animalName, ownershipStartDate)
VALUES (‘Duck’, ‘2018/11/30’);

INSERT
INTO OwnedAnimal(animalName, ownershipStartDate)
VALUES (‘Penny’, ‘2016/11/30’);

INSERT
INTO OwnedAnimal(animalName, ownershipStartDate)
VALUES (‘Ryan’, ‘2014/11/30’);

INSERT
```

```
INTO OwnedAnimal(animalName, ownershipStartDate)
VALUES (‘Mango’, ‘2012/11/30’);

CREATE TABLE AnimalStayInfo(
        animalName: varchar(200),
        animalBranchTag: char(9),
        PRIMARY KEY (animalName),
        FOREIGN KEY (animalName) REFERENCES AnimalHelpedAdopt
                ON DELETE CASCADE
);

INSERT
INTO AnimalStayInfo(animalName, animalBranchTag)
VALUES (‘Bella’, ‘zxcvbnmas’);

INSERT
INTO AnimalStayInfo(animalName, animalBranchTag)
VALUES (Trixie, ‘asdfghjkl’);

INSERT
INTO AnimalStayInfo(animalName, animalBranchTag)
VALUES (‘Luna’, ‘qwertyuio’);

INSERT
INTO AnimalStayInfo(animalName, animalBranchTag)
VALUES (‘Charlie’, ‘poiuytrew’);

INSERT
INTO AnimalStayInfo(animalName, animalBranchTag)
VALUES (‘Daisy’, ‘plmkoijnb’);




CREATE TABLE Owner1(
        sin: char(8),
        name: varchar(200),
        phone_num: char(10),
        address: varchar(200) NOT NULL,
        PRIMARY KEY (sin),
        FOREIGN KEY (address) REFERENCES Owner2
                ON DELETE CASCADE
);

INSERT
INTO Owner1(sin, name, phone_num, address)
```

```
VALUES (‘12345678’, ‘Zephyr Evergreen’, ‘6040987654’, ‘123 Maple Street, Willowdale, CA’);

INSERT
INTO Owner1(sin, name, phone_num, address)
VALUES (‘87654321’, ‘Seraphina Nightingale’, ‘6041234567’, ‘456 Oak Ave, Pinecrest, NY’);

INSERT
INTO Owner1(sin, name, phone_num, address)
VALUES ('98765432', ‘Orion Wilder’, ‘6047986756’, ‘789 Elm Lane, Cedar Springs, TX’);

INSERT
INTO Owner1(sin, name, phone_num, address)
VALUES ('23456789', ‘Juniper Frost’, ‘7780987654’, ‘101 Pine Street, Birch Wood, FL’);

INSERT
INTO Owner1(sin, name, phone_num, address)
VALUES ('34567890', ‘Phoenix Rain’, ‘7786758456’, ‘912 Steven Street, Spruceville, AZ’);


CREATE TABLE Owner2(
        address: varchar(200) PRIMARY KEY,
        postalCode: char(6)
);
INSERT
INTO Owner2 (address, postalCode)
VALUES ('123 Main Street, Cityville', 'A1B2C3');

INSERT
INTO Owner2 (address, postalCode)
VALUES ('456 Oak Avenue, Suburbia', 'X0Y1Z2');

INSERT
INTO Owner2 (address, postalCode)
VALUES ('789 Pine Road, Rural Town', 'H3I4J5');

INSERT
INTO Owner2 (address, postalCode)
VALUES ('101 Seaside Boulevard, Coastal City', 'K6L7M8');

INSERT
INTO Owner2 (address, postalCode)
VALUES ('555 Mountain View, Mountain Town', 'N9O0P1');



CREATE TABLE Adopted(
```

```
        ownerSIN: char(8),
        animalName: char(20),
        adoptionDate: date,
        petName: varchar(200),
        PRIMARY KEY (ownerSIN, animalName),
        FOREIGN KEY (ownerSIN) REFERENCES Owner
                ON DELETE CASCADE,
        FOREIGN KEY (animalName) REFERENCES Animal
                ON DELETE CASCADE
);
INSERT INTO Adopted (ownerSIN, animalName, adoptionDate, petName)
VALUES ('12345678', 'FluffyCat123', '2023/01/15', 'Whiskers');

INSERT INTO Adopted (ownerSIN, animalName, adoptionDate, petName)
VALUES ('87654321', 'FurryDog456', '2023/02/01', 'Buddy');

INSERT INTO Adopted (ownerSIN, animalName, adoptionDate, petName)
VALUES ('23456789', 'FeatheredBird789', '2023/03/10', 'Tweety');

INSERT INTO Adopted (ownerSIN, animalName, adoptionDate, petName)
VALUES ('34567890', 'ScalesFish101', '2023/04/20', 'Splash');

INSERT INTO Adopted (ownerSIN, animalName, adoptionDate, petName)
VALUES ('98765432', 'HoppityRabbit555', '2023/05/05', 'Thumper');


CREATE TABLE WorkerWorksAt1(
        branchName: varchar(200),
        corporationName: varchar(200),
        PRIMARY KEY (branchName)
);
INSERT INTO WorkerWorksAt1 (corporationName, branchName, branchAddress)
VALUES ('Pet Haven Corporation', 'City Animal Rescue');

INSERT INTO WorkerWorksAt1 (corporationName, branchName, branchAddress)
VALUES ('Animal Care Services', 'Suburb Pet Sanctuary');

INSERT INTO WorkerWorksAt1 (corporationName, branchName, branchAddress)
VALUES ('Compassionate Pets Inc', 'Rural Animal Shelter');

INSERT INTO WorkerWorksAt1 (corporationName, branchName, branchAddress)
VALUES ('Happy Tails Corp', 'Coastal Animal Rescue');

INSERT INTO WorkerWorksAt1 (corporationName, branchName, branchAddress)
VALUES ('Wildlife Guardians Ltd', 'Mountain Pet Haven');
```

```
CREATE TABLE WorkerWorksAt2(
        branchName: varchar(200),
        sin: char(8),
        name: varchar(200),
        role: varchar(200),
        PRIMARY KEY (sin)
);
INSERT INTO WorkerWorksAt2 (branchName, sin, name, role)
VALUES ('City Animal Rescue', '12345678', 'John Doe', 'Veterinarian');

INSERT INTO WorkerWorksAt2 (branchName, sin, name, role)
VALUES ('Suburb Pet Sanctuary', '87654321', 'Jane Smith', 'Animal Care Technician');

INSERT INTO WorkerWorksAt2 (branchName, sin, name, role)
VALUES ('Rural Animal Shelter', '23456789', 'Sam Johnson', 'Administrator');

INSERT INTO WorkerWorksAt2 (branchName, sin, name, role)
VALUES ('Coastal Animal Rescue', '98765432', 'Emily Davis', 'Receptionist');

INSERT INTO WorkerWorksAt2 (branchName, sin, name, role)
VALUES ('Mountain Pet Haven', '34567890', 'Chris Miller', 'Groomer');

CREATE TABLE ShelterCorporation(
        Name varchar(200),
        dateFounded date NOT NULL,
        PRIMARY KEY (name)
);
INSERT INTO ShelterCorporation (Name, dateFounded)
VALUES ('Pet Haven Corporation', '2000/05/15');

INSERT INTO ShelterCorporation (Name, dateFounded)
VALUES ('Animal Care Services', '1995/08/20');

INSERT INTO ShelterCorporation (Name, dateFounded)
VALUES ('Compassionate Pets Inc', '2003/03/10');

INSERT INTO ShelterCorporation (Name, dateFounded)
VALUES ('Happy Tails Corp', '1998/11/25');

INSERT INTO ShelterCorporation (Name, dateFounded)
VALUES ('Wildlife Guardians Ltd', '2005/07/03');
```

```
CREATE TABLE ShelterBranchInfo(
        corporationName: varchar(200),
        branchName: varchar(200) NOT NULL,
        branchAddress: varchar(200),
        PRIMARY KEY (corporationName, branchName),
        FOREIGN KEY (corporationName) REFERENCES (ShelterCorporation)
                ON DELETE CASCADE
);
INSERT INTO ShelterBranchInfo (corporationName, branchName, branchAddress)
VALUES ('Pet Haven Corporation', 'City Animal Rescue', '123 Main Street, Cityville');

INSERT INTO ShelterBranchInfo (corporationName, branchName, branchAddress)
VALUES ('Animal Care Services', 'Suburb Pet Sanctuary', '456 Oak Avenue, Suburbia');

INSERT INTO ShelterBranchInfo (corporationName, branchName, branchAddress)
VALUES ('Compassionate Pets Inc', 'Rural Animal Shelter', '789 Pine Road, Rural Town');

INSERT INTO ShelterBranchInfo (corporationName, branchName, branchAddress)
VALUES ('Happy Tails Corp', 'Coastal Animal Rescue', '101 Seaside Boulevard, Seaside City');

INSERT INTO ShelterBranchInfo (corporationName, branchName, branchAddress)
VALUES ('Wildlife Guardians Ltd', 'Mountain Pet Haven', '555 Mountain View, Mountain Town');



CREATE TABLE BranchServiceInfo(
        branchName varchar(200),
        corporationName varchar(200),
        ownerSIN: char(8),
        serviceStartDate: date,
        PRIMARY KEY (ownerSIN, branchName, corporationName),
        FOREIGN KEY (branchName, corporationName) REFERENCES ShelterBranchInfo
                ON DELETE CASCADE
);
INSERT INTO BranchServiceInfo (branchName, corporationName, ownerSIN, serviceStartDate)
VALUES ('City Animal Rescue', 'Pet Haven Corporation', '12345678', '2023/01/15');

INSERT INTO BranchServiceInfo (branchName, corporationName, ownerSIN, serviceStartDate)
VALUES ('Suburb Pet Sanctuary', 'Animal Care Services', '87654321', '2023/02/01');

INSERT INTO BranchServiceInfo (branchName, corporationName, ownerSIN, serviceStartDate)
VALUES ('Rural Animal Shelter', 'Compassionate Pets Inc', '23456789', '2023/03/10');

INSERT INTO BranchServiceInfo (branchName, corporationName, ownerSIN, serviceStartDate)
VALUES ('Coastal Animal Rescue', 'Happy Tails Corp', '98765432', '2023/04/20');
```

```
INSERT INTO BranchServiceInfo (branchName, corporationName, ownerSIN, serviceStartDate)
VALUES ('Mountain Pet Haven', 'Wildlife Guardians Ltd', '34567890', '2023/05/05');



CREATE TABLE AnimalHospital(
        hospitalAddress varchar(200),
        name varchar(200),
        PRIMARY KEY (hospitalAddress)
);
INSERT INTO AnimalHospital (hospitalAddress, name)
VALUES ('123 Main Street, Cityville', 'CityVet Clinic');

INSERT INTO AnimalHospital (hospitalAddress, name)
VALUES ('456 Oak Avenue, Suburbia', 'Suburb Paws Veterinary Hospital');

INSERT INTO AnimalHospital (hospitalAddress, name)
VALUES ('789 Pine Road, Rural Town', 'RuralCare Animal Clinic');

INSERT INTO AnimalHospital (hospitalAddress, name)
VALUES ('101 Maple Lane, Seaside City', 'Seaside Veterinary Center');

INSERT INTO AnimalHospital (hospitalAddress, name)
VALUES ('555 Elm Street, Metroville', 'MetroVet Care');



CREATE TABLE VeterinarianWorkInfo(
        vetSIN: char(8),
        hospitalAddress: varchar(200),
        PRIMARY KEY (vetSIN, hospitalAddress),
        FOREIGN KEY (hospitalAddress) REFERENCES AnimalHospital
                ON DELETE CASCADE,
        FOREIGN KEY (vetSIN) REFERENCES VeterinarianInfo
                ON DELETE CASCADE
);
INSERT INTO VeterinarianWorkInfo (vetSIN, hospitalAddress)
VALUES (‘11111111’, '123 Main Street, Cityville');

INSERT INTO VeterinarianWorkInfo (vetSIN, hospitalAddress)
VALUES (‘22222222’, '456 Oak Avenue, Suburbia');

INSERT INTO VeterinarianWorkInfo (vetSIN, hospitalAddress)
VALUES (‘33333333’, '789 Pine Road, Rural Town');
```

```
INSERT INTO VeterinarianWorkInfo (vetSIN, hospitalAddress)
VALUES (‘44444444’, '101 Maple Lane, Seaside City');

INSERT INTO VeterinarianWorkInfo (vetSIN, hospitalAddress)
VALUES (‘55555555’, '555 Elm Street, Metroville');



CREATE TABLE VeterinarianVolunteerInfo(
        vetSIN: char(8),
        branchName: varchar(200),
        corporationName: varchar(200),
        PRIMARY KEY (vetSIN, branchName, corporationName),
        FOREIGN KEY (vetSIN) REFERENCES VeterinarianInfo
                ON DELETE CASCADE,
        FOREIGN KEY (branchName, corporationName) REFERENCES ShelterBranchInfo
                ON DELETE CASCADE
);
INSERT INTO VeterinarianVolunteerInfo (vetSIN, branchName, corporationName)
VALUES (‘11111111’, 'Coastal Animal Rescue', 'Happy Tails Corp');

INSERT INTO VeterinarianVolunteerInfo (vetSIN, branchName, corporationName)
VALUES (‘22222222’, 'Mountain Pet Haven', 'Wildlife Guardians Ltd');

INSERT INTO VeterinarianVolunteerInfo (vetSIN, branchName, corporationName)
VALUES (‘33333333’, 'Urban Pet Assistance', 'PetCare Solutions');

INSERT INTO VeterinarianVolunteerInfo (vetSIN, branchName, corporationName)
VALUES (‘44444444’, 'Sunny Meadows Animal Shelter', 'Healing Hearts Animal Services');

INSERT INTO VeterinarianVolunteerInfo (vetSIN, branchName, corporationName)
VALUES (‘55555555’, 'Valley Pet Sanctuary', 'Companion Creatures Foundation');



CREATE TABLE VeterinarianInfo(
        vetSIN: char(8),
        specialty: varchar(200)
        name: varchar(200),
        PRIMARY KEY (vetSIN)
);
INSERT
INTO   VeterinarianInfo(vetSIN, specialty, name)
VALUES (‘11111111’, ‘Emergency’, ‘Dr. Grace Wellness’);
INSERT
INTO   VeterinarianInfo(vetSIN, specialty, name)
VALUES (22222222, ‘Infectious Diseases’, ‘Dr. Grace Wellness’);
```

```
INSERT
INTO   VeterinarianInfo(vetSIN, specialty, name)
VALUES (33333333, ‘Pediatrics’, ‘Dr. Michael Healing’);
INSERT
INTO   VeterinarianInfo(vetSIN, specialty, name)
VALUES (44444444, ‘Parasitology’, ‘Dr. Emily Healthwise’);
INSERT
INTO   VeterinarianInfo(vetSIN, specialty, name)
VALUES (55555555, ‘Orthopedics’, ‘Dr. Robert Renewal’);


CREATE TABLE AnimalMedicalHistory(
        medicalRecordNumber: char(9),
        animalName: varchar(200) UNIQUE,
        administeringHospital: varchar(200),
        yearOfRecord: int,
        PRIMARY KEY (medicalRecordNumber),
        FOREIGN KEY (animalName) REFERENCES Animal
                ON DELETE CASCADE
);
INSERT
INTO   AnimalMedicalHistory(medicalRecordNumber, animalName, administeringHospital,
yearOfRecord)
VALUES (‘111111111’, ‘Snoopy’, ‘Vancouver Animal Hospital’, ‘2013’);
INSERT
INTO   AnimalMedicalHistory(medicalRecordNumber, animalName, administeringHospital,
yearOfRecord)
VALUES (‘222222222’, ‘Charlie’, ‘Vancouver Animal Hospital’, ‘2014’);
INSERT
INTO   AnimalMedicalHistory(medicalRecordNumber, animalName, administeringHospital,
yearOfRecord)
VALUES (‘333333333’, ‘Luna’, ‘Surrey Animal Hospital’, ‘1999’);
INSERT
INTO   AnimalMedicalHistory(medicalRecordNumber, animalName, administeringHospital,
yearOfRecord)
VALUES (‘444444444’, ‘Daisy’, ‘Burnaby Animal Hospital’, ‘2000’);
INSERT
INTO   AnimalMedicalHistory(medicalRecordNumber, animalName, administeringHospital,
yearOfRecord)
VALUES (‘555555555’, ‘Cooper’, ‘Vancouver Animal Hospital’, ‘2023’);
```