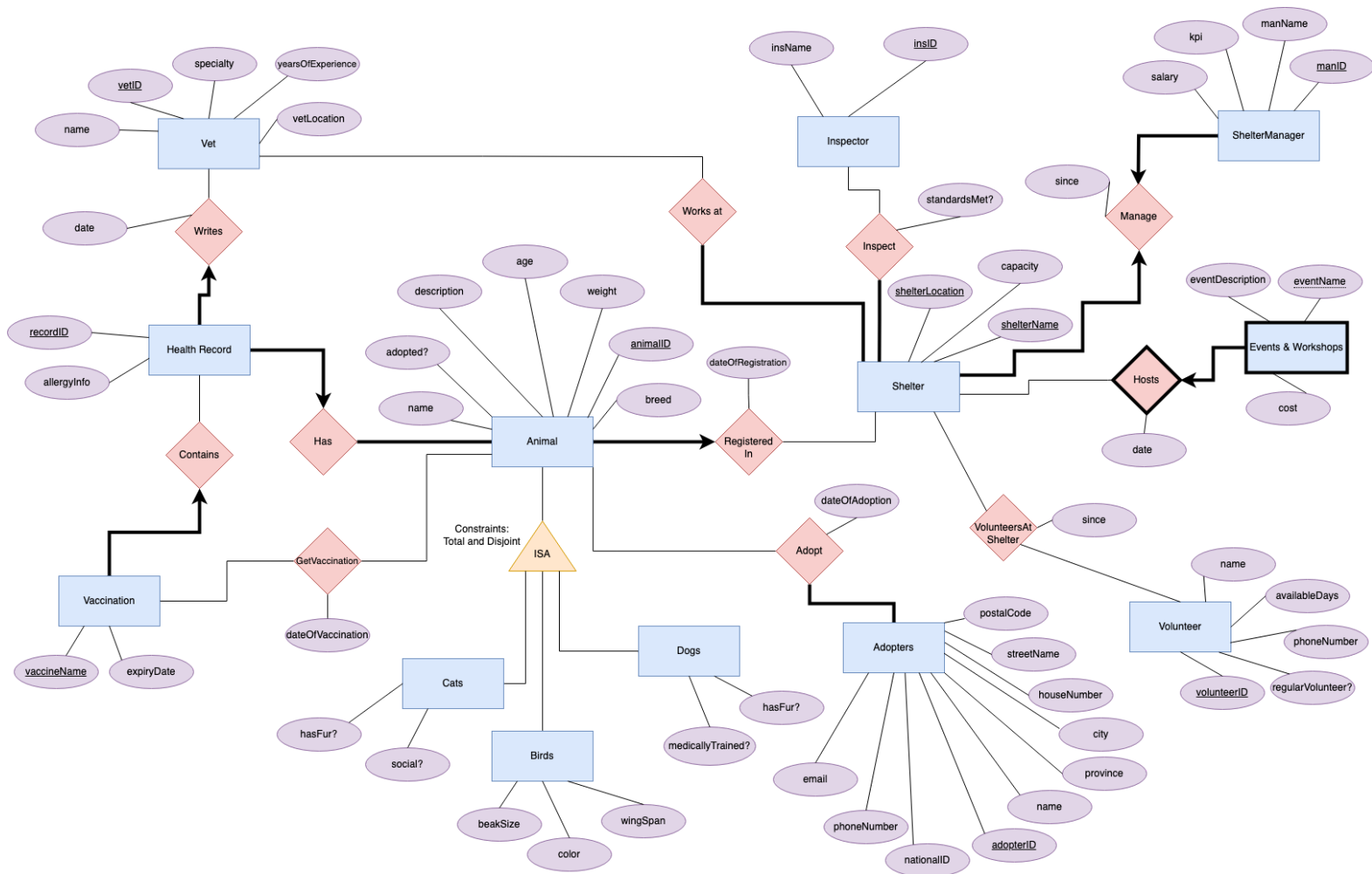


1) Project Description:

In this project we built an Animal Shelter Management Website. Our website is targeted specifically for shelter managers and aims to make managers' responsibilities more manageable by allowing them to keep track of everything that is related to the shelter they manage and helping them efficiently complete their daily tasks .

Here are the key features of our website:

1. A new shelter manager can sign up and login to our website.
2. As soon as a manager logs in, only the information related to the shelter that manager is responsible for shows up on all of the pages. The manager can use the navigation bar to access all the pages we have on our website.
 - The pages on our website are Home, Volunteers, Adopters, Vets, Inspectors, Events and Workshops, Animals, Dogs, Cats and Birds
 - (Additionally we have a reset button that resets the system. It should be used when the website is being used for the first time.)
 - Logout directs the manager to the Login page.
3. Home page includes information about the shelter that the manager is managing such as shelter name, shelter location, shelter capacity and number of volunteers. Additionally there is a dropdown menu that allows the manager to view any table with any attribute of their choice.
4. Volunteers page allows the shelter manager to add volunteers for this shelter. There is a list of volunteers being displayed in a table and a table of volunteer IDs that are already in use. Additionally, the manager can use a form to find volunteers available for specific times in a week.
5. Adopters page allows the manager to insert new adopters and update their information. There is a list of adopters displayed on a table where the manager can choose to view the table either with Address or without address using the dropdown menu. There is also a table displayed for the list of unadopted animal IDs in this shelter.
6. Vets page allows the manager to insert new vets. It also allows the manager to find for which specialties your shelters have vets that match the minimum years of experience that the manager specified using a form.
7. The inspector page allows the manager to insert new inspectors, view the list of inspectors for that shelter in a table and also it shows the inspector IDs that are already in use in a table.
8. Event and workshops page allows the manager to insert, update and delete events. It also shows a list of events in a table.



Changes to our design:

- we took out total participation for shelter to vets and inspectors
 - In our website, managers sign up with their manager ID and they give shelter name/location because it is a total participation one-to-one relationship. We thought it would be awkward for the manager to have to also add a vet and inspector to a newly added shelter in this scenario - so we removed the total participation.
- changed shelterManagerInfo table name to Manager for simplicity.
- changed ShelterManagerPerformance table name to ManagerPerformance for simplicity.
- added NOT NULL to manager password because it makes more logical sense (user cannot be signed up with no password)
- added ON DELETE CASCADE for HealthRecord, GetVaccination and Adopt since they all reference RegisteredAnimals and we want to be able to successfully delete an animal.
- added ON DELETE SET NULL for Vaccination and delete the original NOT NULL constraint for recordID.

2) List of Relational Schemas:

Manager=(manID, manPassword, **shelterLocation**, **shelterName**, manName, **kpi**, since)

ManagerPerformance = (kpi, salary)

Vet (vetID, vetName, specialty, yearsOfExperience, vetLocation)

VetWorksAtShelter (**vetID**, **shelterLocation**, **shelterName**)

Shelter(shelterLocation, capacity, shelterName)

EventsHosted(eventName, eventDescription, cost, eventDate, **shelterLocation**, **shelterName**)

AdoptersInfo(adopterID, nationalID, name, phoneNumber, email, **postalCode**, houseNumber)

AdoptersLocation(postalCode, city, streetName, province)

Adopt(**adopterID**, **animalID**, dateOfAdoption)

AvailableDaysRegularVolunteer(availableDays, regularVolunteer)

Volunteer (volunteerID, name, availableDays, phoneNumber, regularVolunteer)

VolunteersAtShelter (**volunteerID**, **shelterLocation**, **shelterName**, since)

Inspector(insName, insID)

Inspect(**insID**, **shelterLocation**, **shelterName**, standardsMet)

RegisteredAnimal (animalID, name, adopted?,description, age, weight, breed, **shelterLocation**, **shelterName**)

Cats (animalID, hasFur,social)

Dogs (animalID, medicallyTrained, hasFur)

Birds(animalID, beakSize, wingSpan, color)

GetVaccination(animalID, vaccinationName,dateOfVaccination)

Vaccination (vaccineName, expiryDate, **recordID**)

HealthRecord (recordID, allergyInfo, **vetID**,**animalID**)

3) Screenshots of DB After Reset (Initial Insert Statements):

AvailableDaysRegularVolunteer:

| Available Days | Regular Volunteer |
|----------------|-------------------|
| ----- | ----- |
| TTTTTTT | 1 |
| TTTTTTF | 1 |
| TTTTFFF | 1 |
| TTFFFFF | 1 |
| FFFFFFF | 0 |
| FTFTTF | 1 |

Volunteer:

| Volunteer ID | Name | Available Days | Phone Number |
|--------------|------------------|----------------|--------------|
| ----- | ----- | ----- | ----- |
| V123 | Sam Johns | TTTTTTT | 1231231234 |
| V124 | Clara Yang | TTTTTTF | 1231239999 |
| V125 | Anna Smith | TTTTFFF | 7781111111 |
| V444 | Robert Robertson | FFFFFFF | 6046046044 |
| V445 | Blake Tran | TTTTFFF | 2233445566 |
| V446 | Clare Cooper | TTTTFFF | 3452435267 |
| V447 | Jake Miles | FFFFFFF | 1234567888 |
| V448 | Jamie Finley | FTFTTF | 2342342344 |
| V126 | Chase Jones | TTFFFFF | 1231231234 |
| V127 | Larry Miller | FFFFFFF | 2220004444 |

Inspector:

| InsName | InsID |
|---------|-------|
| ----- | |
| Selina | I001 |
| Ece | I002 |
| Sogand | I003 |
| Tony | I004 |
| Zed | I005 |

Vet:

| VetID | Vet Name | Specialty | Years of Experience | Vet Location |
|-------|--------------|------------|---------------------|---------------|
| ----- | | | | |
| V001 | Andy White | Cardiology | 6 | Surrey |
| V002 | Jack Allen | Cardiology | 4 | Surrey |
| V003 | Jackie Brown | Neurology | 3 | Surrey |
| V004 | Mary Moore | Oncology | 2 | San Francisco |
| V005 | Sandy Blum | Dentistry | 8 | Dentistry |

AdoptersLocation:

| Postal Code | City | Street Name | Province |
|-------------|-------------|---------------------|------------------|
| ----- | | | |
| 123456 | Toronto | 120 Bremner Blvd | Ontario |
| 34FS67 | Toronto | 20 Bay Street | Ontario |
| 45A67S8 | Mississauga | 2375 Skymark Avenue | Ontario |
| V7TDZ4 | Vancouver | | British Columbia |
| 444555 | Cambridge | 705 Fountain Street | Ontario |
| | | N. | |

AdoptersInfo:

| AdopterID | NationalID | AdopterName | Phone Number | Email | Postal Code | House Number |
|-----------|------------|---------------|--------------|----------------------------|-------------|--------------|
| ----- | | | | | | |
| A000 | 7290920930 | Jane Smith | 7781234567 | jane98smith@gmail.com | 123456 | 12 |
| A001 | 7599921838 | Joe Johnson | 6449826543 | joe.johnson@gmail.com | | 17 |
| A002 | 7899234932 | Natalia Davis | 5223426189 | nattyisb32.davis@gmail.com | 34FS67 | 912 |
| A003 | 7899980938 | Jason Ng | 5671231212 | jas65.ng@gmail.com | 45A67S8 | 789 |
| A005 | 7145980938 | Clark Brown | 2355678912 | clark.brown456@outlook.com | V7TDZ4 | 23 |
| A006 | 7166980938 | Sara Brown | 2359929988 | sara.brown6@outlook.com | 444555 | 13 |
| A007 | 7166000038 | Andy Smith | 2352228888 | andy.smith@outlook.com | 444555 | 13 |
| A008 | 7166111038 | Ally Smith | 1010101010 | ally@outlook.com | 444555 | 13 |
| A009 | 7123450038 | Jones Blake | 2020202020 | jones@outlook.com | V7TDZ4 | 23 |

Shelter:

| Shelter Location | Capacity | Shelter Name |
|---|----------|-------------------------------|
| 270 Gerrard St E, Toronto, Ontario | 200 | Lovely Pet Home |
| 322 Dundas St W, Toronto, Ontario | 150 | Loving Care Animal Shelter |
| 101 Oak Street, Evacuationville, USA | 500 | Lovely Pet Home |
| 10776 King George Boulevard, Surrey, British Columbia | 100 | Paws and Claws Animal Shelter |
| 4455 110 Avenue SE, Calgary, Alberta | 300 | The Animal Haven |
| 234 Willow Lane, Supportville, USA | 500 | The Animal Haven |

VetWorksAtShelter:

| VetID | Shelter Location | Shelter Name |
|-------|---|-------------------------------|
| V001 | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| V002 | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| V003 | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| V004 | 234 Willow Lane, Supportville, USA | The Animal Haven |
| V005 | 234 Willow Lane, Supportville, USA | The Animal Haven |

Inspect:

| InsID | Shelter Location | Shelter Name | Standards Met |
|-------|--|--------------------------------|---------------|
| I001 | 234 Willow Lane, Sup portville, USA | The Animal Haven | 1 |
| I002 | 234 Willow Lane, Sup portville, USA | The Animal Haven | 1 |
| I002 | 4455 110 Avenue SE, Calgary, Alberta | The Animal Haven | 1 |
| I003 | 10776 King George Bo ullevard, Surrey, Bri tish Columbia | Paws and Claws Anima l Shelter | 1 |
| I004 | 270 Gerrard St E, To ronto, Ontario | Lovely Pet Home | 1 |
| I004 | 322 Dundas St W, Tor onto,Ontario | Loving Care Animal S helter | 0 |

ManagerPerformance:

| KPI | SALARY |
|--------------------------|------------|
| AnimalAdoptionRate : 70% | 5000/month |
| AnimalAdoptionRate : 75% | 5500/month |
| AnimalAdoptionRate : 60% | 4000/month |
| AnimalAdoptionRate : 50% | 4000/month |
| AnimalAdoptionRate : 80% | 6000/month |

Manager:

| ManID | MANPASSWORD | Shelter Location | Shelter Name | ManName | KPI | Since |
|-------|-------------|---|-------------------------------|---------------|--------------------------|-----------|
| M001 | myt | 322 Dundas St W, Toronto, Ontario | Loving Care Animal Shelter | Seth Smith | AnimalAdoptionRate : 70% | 02-FEB-20 |
| M002 | myt | 234 Willow Lane, Supportville, USA | The Animal Haven | Jordon Miles | AnimalAdoptionRate : 70% | 09-OCT-09 |
| M003 | pass | 4455 110 Avenue SE, Calgary, Alberta | The Animal Haven | Sarah Coles | AnimalAdoptionRate : 60% | 29-NOV-10 |
| M004 | pass4 | 101 Oak Street, Evacuationville, USA | Lovely Pet Home | Nick Knightly | AnimalAdoptionRate : 50% | 27-MAY-10 |
| M005 | pass5 | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter | Anna Johnson | AnimalAdoptionRate : 70% | 15-APR-17 |

VolunteersAtShelter:

| Volunteer ID | Shelter Location | Shelter Name | Since |
|--------------|---|-------------------------------|-----------|
| V123 | 270 Gerrard St E, Toronto, Ontario | Lovely Pet Home | 11-NOV-23 |
| V124 | 270 Gerrard St E, Toronto, Ontario | Lovely Pet Home | 27-OCT-23 |
| V125 | 101 Oak Street, Evacuationville, USA | Lovely Pet Home | 11-NOV-23 |
| V126 | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter | 01-JAN-07 |
| V126 | 234 Willow Lane, Supportville, USA | The Animal Haven | 04-AUG-10 |
| V444 | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter | 18-DEC-10 |
| V445 | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter | 23-FEB-10 |
| V446 | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter | 05-SEP-19 |
| V447 | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter | 14-AUG-13 |
| V448 | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter | 04-OCT-11 |

EventsHosted:

| Event Name | Event Description | Cost | Event Date | Shelter Location | Shelter Name |
|-----------------|--|-----------------|------------|--|--------------------------------|
| Adoption Party | A fun event where you can meet and adopt adorable shelter pets | \$20 per person | 20-MAY-22 | 10776 King George Bo ullevard, Surrey, Bri tish Columbia | Paws and Claws Anima l Shelter |
| Pet Play Day | Playtime for pets and people with games and activities | \$10 per person | 24-DEC-22 | 10776 King George Bo ullevard, Surrey, Bri tish Columbia | Paws and Claws Anima l Shelter |
| Pets 101 | Time to learn about being a pet owner | \$15 per person | 24-DEC-23 | 10776 King George Bo ullevard, Surrey, Bri tish Columbia | Paws and Claws Anima l Shelter |
| Sick pet caring | Caring ways for your sick pet | \$10 per person | 12-NOV-23 | 234 Willow Lane, portville, USA | Sup The Animal Haven |
| Vets 101 | Which vets can you trust? | \$11 per person | 06-DEC-23 | 234 Willow Lane, portville, USA | Sup The Animal Haven |

RegisteredAnimal:

| Animal ID | Name | Adopted Description | Age | Weight | Breed | Shelter Location | Shelter Name |
|-----------|--------|-------------------------------------|-----|--------|---------------------|--|--------------------------------|
| C000 | Smokey | 0 A very cute cat. Loves to be pet. | 3 | 8 | British Shorthair | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| C001 | Pinky | 0 Not a playful cat. | 3 | 20 | Siamese | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| C002 | Bonbon | 1 Loves to cuddle and eat. | 3 | 15 | Bengal | 322 Dundas St W, Toronto,Ontario | Tor Loving Care Animal Shelter |
| C003 | Bambi | 0 Bambi loves to be pet. | 1 | 13 | Calico | 10776 King George Bo ullevard, Surrey, Bri tish Columbia | Paws and Claws Anima l Shelter |
| C004 | Daisy | 1 Loves to eat. Always hungry | 5 | 15 | Ragdoll | 234 Willow Lane, portville, USA | Sup The Animal Haven |
| C005 | Kitkat | 1 Loves kitkats | 0 | 10 | Ragdoll | 234 Willow Lane, portville, USA | Sup The Animal Haven |
| C006 | Catcat | 0 is a ver nice cat | 10 | 18 | Bengal | 234 Willow Lane, portville, USA | Sup The Animal Haven |
| C007 | Kitty | 0 Kitty is really cute . | 4 | 10 | Calico | 10776 King George Bo ullevard, Surrey, Bri tish Columbia | Paws and Claws Anima l Shelter |
| D000 | Spots | 1 A good boy, lots of energy. | 1 | 15 | Dalmatian | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| D001 | Jamie | 0 Playful dog and loves to cuddle | 5 | 20 | Labrador | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| D002 | Wolfie | 0 Loves to cuddle. | 3 | 15 | Golden Retriever | 322 Dundas St W, Toronto,Ontario | Tor Loving Care Animal Shelter |
| D003 | Luna | 1 Luna loves when you pet her. | 1 | 8 | Chinese Crested Dog | 10776 King George Bo ullevard, Surrey, Bri tish Columbia | Paws and Claws Anima l Shelter |
| D004 | Bear | 1 Loves to eat. | 1 | 3 | Husky | 10776 King George Bo ullevard, Surrey, Bri tish Columbia | Paws and Claws Anima l Shelter |
| B000 | Coco | 1 Peaceful bird. | 3 | 8 | Finch | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| B001 | Bluey | 1 Speaks a lot. So cute. | 5 | 20 | Macaw | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |

| | | | | | | |
|------|----------|-------------------------------|---|---------------|---|-------------------------------|
| B002 | Jay | 0 Loves to speak | 3 | 15 Parrot | 322 Dundas St W, Toronto, Ontario | Loving Care Animal Shelter |
| B003 | Raven | 0 Angry bird | 1 | 8 Grey parrot | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| B004 | Kiwi | 0 Loves to eat. Always hungry | 1 | 3 Dove | 234 Willow Lane, Newportville, USA | The Animal Haven |
| C008 | Mr. Cat | 0 Fun cat | 3 | 4 Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C009 | Paws | 1 Loves to run around | 3 | 3 Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C010 | Whiskers | 1 Very active | 5 | 5 Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C011 | Stripes | 0 Sleeps all day | 7 | 6 Ragdoll | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C012 | Fuzzy | 0 Smart cat | 3 | 5 Ragdoll | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |

Cats:

| Animal ID | HasFur | Social |
|-----------|--------|--------|
| C000 | 1 | 1 |
| C001 | 1 | 0 |
| C002 | 1 | 1 |
| C003 | 1 | 1 |
| C004 | 1 | 0 |
| C005 | 0 | 1 |
| C006 | 1 | 0 |
| C007 | 1 | 0 |
| C008 | 1 | 0 |
| C009 | 0 | 1 |
| C010 | 1 | 1 |
| C011 | 1 | 1 |
| C012 | 1 | 1 |

Dogs:

| ANIM | MEDICALLYTRAINED | HASFUR |
|------|------------------|--------|
| D000 | 1 | 1 |
| D001 | 0 | 1 |
| D002 | 1 | 1 |
| D003 | 0 | 0 |
| D004 | 0 | 1 |

Birds:

| Animal ID | BeakSize | WingSpan | Color |
|-----------|----------|----------|-------|
| B000 | 4 | 25 | White |
| B001 | 7 | 30 | Blue |
| B002 | 9 | 20 | Green |
| B003 | 12 | 25 | Blue |
| B004 | 5 | 12 | Grey |

Health Record:

| RecordID | AllergyInfo | VetID | Animal ID |
|----------|-------------|-------|-----------|
| R123 | Dairy | V001 | C001 |
| R111 | Pollen | V001 | D002 |
| R222 | Fish | V002 | C002 |
| R333 | Fish | V004 | C003 |
| R444 | Chicken | V005 | D004 |

Vaccination:

| Vaccine Name | Expiry Date | RecordID |
|---------------------------|-------------|----------|
| Rabies Vaccine | 22-FEB-45 | R123 |
| Bordetella Vaccine | 10-FEB-24 | R111 |
| Canine Parvovirus Vaccine | 06-JUN-30 | R222 |
| Feline Distemper Vaccine | 09-FEB-34 | R333 |
| Avian Influenza Vaccine | 02-SEP-29 | R444 |

GetVaccination:

| Animal ID | Vaccine Name | Date of Vaccination |
|-----------|---------------------------|---------------------|
| C000 | Rabies Vaccine | 20-JAN-22 |
| C000 | Bordetella Vaccine | 21-MAR-22 |
| C000 | Canine Parvovirus Vaccine | 04-FEB-21 |
| C000 | Feline Distemper Vaccine | 09-SEP-22 |
| C000 | Avian Influenza Vaccine | 09-FEB-23 |
| C008 | Rabies Vaccine | 22-JAN-22 |
| C008 | Bordetella Vaccine | 21-APR-22 |
| C008 | Canine Parvovirus Vaccine | 04-JAN-20 |
| C008 | Feline Distemper Vaccine | 09-JUL-21 |
| C008 | Avian Influenza Vaccine | 09-FEB-20 |
| C010 | Rabies Vaccine | 26-JAN-22 |
| C010 | Bordetella Vaccine | 26-MAR-22 |
| C010 | Canine Parvovirus Vaccine | 04-DEC-21 |
| C010 | Feline Distemper Vaccine | 19-NOV-22 |
| C010 | Avian Influenza Vaccine | 19-OCT-23 |
| C012 | Bordetella Vaccine | 26-MAY-22 |
| C012 | Canine Parvovirus Vaccine | 13-OCT-21 |
| C012 | Feline Distemper Vaccine | 09-DEC-22 |
| C012 | Avian Influenza Vaccine | 20-JAN-23 |

| | | |
|------|----------------------|-----------|
| C002 | Avian Influenza Vacc | 17-SEP-23 |
| | ine | |
| C003 | Rabies Vaccine | 20-JAN-22 |
| C003 | Bordetella Vaccine | 21-MAR-22 |
| C003 | Canine Parvovirus Va | 04-FEB-21 |
| | ccine | |
| C003 | Feline Distemper Vac | 09-SEP-22 |
| | cine | |
| C003 | Avian Influenza Vacc | 09-FEB-23 |
| | ine | |
| D001 | Bordetella Vaccine | 04-FEB-21 |
| D003 | Rabies Vaccine | 20-JAN-22 |
| D003 | Bordetella Vaccine | 21-MAR-22 |
| D003 | Canine Parvovirus Va | 04-FEB-21 |
| | ccine | |
| D003 | Feline Distemper Vac | 09-SEP-22 |
| | cine | |
| D003 | Avian Influenza Vacc | 09-FEB-23 |
| | ine | |
| D002 | Bordetella Vaccine | 09-SEP-22 |
| D002 | Feline Distemper Vac | 09-FEB-23 |
| | cine | |
| B001 | Rabies Vaccine | 20-JAN-22 |
| B001 | Bordetella Vaccine | 21-MAR-22 |
| B001 | Canine Parvovirus Va | 04-FEB-21 |
| | ccine | |
| B001 | Feline Distemper Vac | 09-SEP-22 |
| | cine | |
| B001 | Avian Influenza Vacc | 09-FEB-23 |
| | ine | |
| B002 | Rabies Vaccine | 20-JAN-22 |
| B003 | Bordetella Vaccine | 21-MAR-22 |
| B002 | Canine Parvovirus Va | 04-FEB-21 |
| | ccine | |
| B004 | Feline Distemper Vac | 09-SEP-22 |
| | cine | |

Adopt:

| AdopterID | Animal ID | Date of Adoption |
|-----------|-----------|------------------|
| A000 | C005 | 23-AUG-23 |
| A001 | D004 | 02-SEP-23 |
| A002 | B002 | 03-OCT-23 |
| A003 | B000 | 11-OCT-23 |
| A005 | C004 | 22-OCT-23 |
| A006 | C001 | 06-NOV-23 |
| A007 | D003 | 02-JUN-22 |
| A008 | C010 | 07-NOV-23 |
| A009 | C009 | 04-DEC-22 |

4) Screenshots of Before, During, After Queries:

Insert:

- Volunteers has availableDays as a FK
 - If available days are inputted and it does not already exist in AvailableDaysRegularVolunteer table, then we first add to that table
- File: routeHandler.php, function: handleInsertVolunteerRequest(), line: (insert into availableDays -> 1161), (insert into volunteer -> 1177)

BEFORE:

Volunteer:

| Volunteer ID | Name | Available Days | Phone Number |
|--------------|------------------|----------------|--------------|
| V123 | Sam Johns | TTTTTTT | 1231231234 |
| V124 | Clara Yang | TTTTTTF | 1231239999 |
| V125 | Anna Smith | TTTTFFF | 7781111111 |
| V444 | Robert Robertson | FFFFFFF | 6046046044 |
| V445 | Blake Tran | TTTTFFF | 2233445566 |
| V446 | Clare Cooper | TTTTFFF | 3452435267 |
| V447 | Jake Miles | FFFFFFF | 1234567888 |
| V448 | Jamie Finley | FTFTTFF | 2342342344 |
| V126 | Chase Jones | TTFFFFFF | 1231231234 |
| V127 | Larry Miller | FFFFFFF | 2220004444 |

AvailableDaysRegularVolunteer:

| Available Days | Regular Volunteer |
|----------------|-------------------|
| TTTTTTT | 1 |
| TTTTTTF | 1 |
| TTTTFFF | 1 |
| TTFFFFFF | 1 |
| FFFFFFF | 0 |
| FTFTTFF | 1 |

GUI (DURING): in "vounteers.php" page

Id:

Name:

Days Available:

Phone Number:

AFTER:

| Volunteer ID | Name | Available Days | Phone Number |
|--------------|------------------|----------------|--------------|
| V999 | Sam Sammy | FTTTTTT | 5555555556 |
| V123 | Sam Johns | TTTTTTT | 1231231234 |
| V124 | Clara Yang | TTTTTTF | 1231239999 |
| V125 | Anna Smith | TTTTFFF | 7781111111 |
| V444 | Robert Robertson | FFFFFFF | 6046046044 |
| V445 | Blake Tran | TTTTFFF | 2233445566 |
| V446 | Clare Cooper | TTTTFFF | 3452435267 |
| V447 | Jake Miles | FFFFFFF | 1234567888 |
| V448 | Jamie Finley | FTFTTFF | 2342342344 |
| V126 | Chase Jones | TFTFFFF | 1231231234 |
| V127 | Larry Miller | FFFFFFF | 2220004444 |

| Available Days | Regular Volunteer |
|----------------|-------------------|
| FTTTTTT | 1 |
| TTTTTTT | 1 |
| TTTTTTF | 1 |
| TTTTFFF | 1 |
| TFTFFFF | 1 |
| FFFFFFF | 0 |
| FTFTTFF | 1 |

Delete:

We do delete on animals since it has an ISA relationship with cats,dogs and birds, and they have ON DELETE CASCADE for animals. HealthRecord, Adopt, and GetVaccination also has ON DELETE CASCADE for animals.

- Code: routeHandler.php, function:handleDeleteAnimalRequest() -> line 210

Before:

ALL registered animals in our DB:

| Animal ID | Name | Adopted Description | Age | Weight | Breed | Shelter Location | Shelter Name |
|-----------|--------|-------------------------------------|-----|--------|---------------------|---|-------------------------------|
| C000 | Smokey | 0 A very cute cat. Loves to be pet. | 3 | 8 | British Shorthair | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| C001 | Pinky | 0 Not a playful cat. | 3 | 20 | Siamese | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| C002 | Bonbon | 1 Loves to cuddle and eat. | 3 | 15 | Bengal | 322 Dundas St W, Toronto, Ontario | Loving Care Animal Shelter |
| C003 | Bambi | 0 Bambi loves to be pet. | 1 | 13 | Calico | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C004 | Daisy | 1 Loves to eat. Always hungry | 5 | 15 | Ragdoll | 234 Willow Lane, Portland, USA | The Animal Haven |
| C005 | Kitkat | 1 Loves kitkats | 0 | 10 | Ragdoll | 234 Willow Lane, Portland, USA | The Animal Haven |
| C006 | Catcat | 0 is a very nice cat | 10 | 18 | Bengal | 234 Willow Lane, Portland, USA | The Animal Haven |
| C007 | Kitty | 0 Kitty is really cute | 4 | 10 | Calico | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| D000 | Spots | 1 A good boy, lots of energy. | 1 | 15 | Dalmatian | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| D001 | Jamie | 0 Playful dog and loves to cuddle | 5 | 20 | Labrador | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| D002 | Wolfie | 0 Loves to cuddle. | 3 | 15 | Golden Retriever | 322 Dundas St W, Toronto, Ontario | Loving Care Animal Shelter |
| D003 | Luna | 1 Luna loves when you pet her. | 1 | 8 | Chinese Crested Dog | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| D004 | Bear | 1 Loves to eat. | 1 | 3 | Husky | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| B000 | Coco | 1 Peaceful bird. | 3 | 8 | Finch | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| B001 | Bluey | 1 Speaks a lot. So cute. | 5 | 20 | Macaw | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |

| | | | | | | | |
|------|----------|-------------------------------|---|----|-------------|---|-------------------------------|
| B002 | Jay | 0 Loves to speak | 3 | 15 | Parrot | 322 Dundas St W, Toronto, Ontario | Loving Care Animal Shelter |
| B003 | Raven | 0 Angry bird | 1 | 8 | Grey parrot | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| B004 | Kiwi | 0 Loves to eat. Always hungry | 1 | 3 | Dove | 234 Willow Lane, Portland, USA | The Animal Haven |
| C008 | Mr. Cat | 0 Fun cat | 3 | 4 | Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C009 | Paws | 1 Loves to run around | 3 | 3 | Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C010 | Whiskers | 1 Very active | 5 | 5 | Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C011 | Stripes | 0 Sleeps all day | 7 | 6 | Ragdoll | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C012 | Fuzzy | 0 Smart cat | 3 | 5 | Ragdoll | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |

Logged in as M005, these are animals for **THIS SHELTER ONLY**:

| Animal ID | Name | Adopted | Description | Age | Weight | Breed | Shelter Location | Shelter Name |
|-----------|-------|---------|------------------------------|-----|--------|---------------------|----------------------|-------------------------------|
| C003 | Bambi | 0 | Bambi loves to be pet. | 1 | 13 | Calico | 10776 King George Bo | Paws and Claws Animal Shelter |
| C007 | Kitty | 0 | Kitty is really cute. | 4 | 10 | Calico | 10776 King George Bo | Paws and Claws Animal Shelter |
| D003 | Luna | 1 | Luna loves when you pet her. | 1 | 8 | Chinese Crested Dog | 10776 King George Bo | Paws and Claws Animal Shelter |
| D004 | Bear | 1 | Loves to eat. | 1 | 3 | Husky | 10776 King George Bo | Paws and Claws Animal Shelter |
| B003 | Raven | 0 | Angry bird | 1 | 8 | Grey parrot | 10776 King George Bo | Paws and Claws Animal Shelter |

During(GUI):

Delete Animal:

AnimalID's are in the format 'CXXX or BXXX or DXXX' where X are integers between 0-9. You can only delete existing animals in this shelter.

AnimalID:

List of Registered Animals in this shelter

| AnimalID | Name | Adopted | Description | Age | Weight | Breed |
|----------|----------|---------|------------------------------|-----|--------|---------------------|
| C003 | Bambi | No | Bambi loves to be pet. | 1 | 13 | Calico |
| C007 | Kitty | No | Kitty is really cute. | 4 | 10 | Calico |
| D003 | Luna | Yes | Luna loves when you pet her. | 1 | 8 | Chinese Crested Dog |
| D004 | Bear | Yes | Loves to eat. | 1 | 3 | Husky |
| B003 | Raven | No | Angry bird | 1 | 8 | Grey parrot |
| C008 | Mr. Cat | No | Fun cat | 3 | 4 | Siamese |
| C009 | Paws | Yes | Loves to run around | 3 | 3 | Siamese |
| C010 | Whiskers | Yes | Very active | 5 | 5 | Siamese |
| C011 | Stripes | No | Sleeps all day | 7 | 6 | Ragdoll |
| C012 | Fuzzy | No | Smart cat | 3 | 5 | Ragdoll |

After:

| Animal ID | Name | Adopted | Description | Age | Weight | Breed | Shelter Location | Shelter Name |
|-----------|---------|---------|-----------------------------------|-----|--------|---------------------|---|-------------------------------|
| C000 | Smokey | 0 | A very cute cat. Loves to be pet. | 3 | 8 | British Shorthair | 270 Gerrard St E, Toronto, Ontario | Lovely Pet Home |
| C001 | Pinky | 0 | Not a playful cat. | 3 | 20 | Siamese | 270 Gerrard St E, Toronto, Ontario | Lovely Pet Home |
| C002 | Bonbon | 1 | Loves to cuddle and eat. | 3 | 15 | Bengal | 322 Dundas St W, Toronto, Ontario | Loving Care Animal Shelter |
| C004 | Daisy | 1 | Loves to eat. Always hungry | 5 | 15 | Ragdoll | 234 Willow Lane, Portland, USA | The Animal Haven |
| C005 | Kitkat | 1 | Loves Kitkats | 0 | 10 | Ragdoll | 234 Willow Lane, Portland, USA | The Animal Haven |
| C006 | Catcat | 0 | is a very nice cat | 10 | 18 | Bengal | 234 Willow Lane, Portland, USA | The Animal Haven |
| C007 | Kitty | 0 | Kitty is really cute. | 4 | 10 | Calico | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| D000 | Spots | 1 | A good boy, lots of energy. | 1 | 15 | Dalmatian | 270 Gerrard St E, Toronto, Ontario | Lovely Pet Home |
| D001 | Jamie | 0 | Playful dog and loves to cuddle | 5 | 20 | Labrador | 270 Gerrard St E, Toronto, Ontario | Lovely Pet Home |
| D002 | Wolfie | 0 | Loves to cuddle. | 3 | 15 | Golden Retriever | 322 Dundas St W, Toronto, Ontario | Loving Care Animal Shelter |
| D003 | Luna | 1 | Luna loves when you pet her. | 1 | 8 | Chinese Crested Dog | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| D004 | Bear | 1 | Loves to eat. | 1 | 3 | Husky | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| B000 | Coco | 1 | Peaceful bird. | 3 | 8 | Finch | 270 Gerrard St E, Toronto, Ontario | Lovely Pet Home |
| B001 | Bluey | 1 | Speaks a lot. So cute. | 5 | 20 | Macaw | 270 Gerrard St E, Toronto, Ontario | Lovely Pet Home |
| B002 | Jay | 0 | Loves to speak | 3 | 15 | Parrot | 322 Dundas St W, Toronto, Ontario | Loving Care Animal Shelter |
| B003 | Raven | 0 | Angry bird | 1 | 8 | Grey parrot | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| B004 | Kiwi | 0 | Loves to eat. Always hungry | 1 | 3 | Dove | 234 Willow Lane, Portland, USA | The Animal Haven |
| C008 | Mr. Cat | 0 | Fun cat | 3 | 4 | Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |

| | | | | | |
|------|----------|-----------------------|---|-----------|---|
| C009 | Paws | 1 Loves to run around | 3 | 3 Siamese | 10776 King George Bo Paws and Claws Animal Shelter tish Columbia |
| C010 | Whiskers | 1 Very active | 5 | 5 Siamese | 10776 King George Bo Paws and Claws Animal Shelter tish Columbia |
| C011 | Stripes | 0 Sleeps all day | 7 | 6 Ragdoll | 10776 King George Bo Paws and Claws Animal Shelter tish Columbia |
| C012 | Fuzzy | 0 Smart cat | 3 | 5 Ragdoll | 10776 King George Bo Paws and Claws Animal Shelter tish Columbia |

List of Registered Animals in this shelter

| AnimalID | Name | Adopted | Description | Age | Weight | Breed |
|----------|----------|---------|------------------------------|-----|--------|---------------------|
| C007 | Kitty | No | Kitty is really cute. | 4 | 10 | Calico |
| D003 | Luna | Yes | Luna loves when you pet her. | 1 | 8 | Chinese Crested Dog |
| D004 | Bear | Yes | Loves to eat. | 1 | 3 | Husky |
| B003 | Raven | No | Angry bird | 1 | 8 | Grey parrot |
| C008 | Mr. Cat | No | Fun cat | 3 | 4 | Siamese |
| C009 | Paws | Yes | Loves to run around | 3 | 3 | Siamese |
| C010 | Whiskers | Yes | Very active | 5 | 5 | Siamese |
| C011 | Stripes | No | Sleeps all day | 7 | 6 | Ragdoll |
| C012 | Fuzzy | No | Smart cat | 3 | 5 | Ragdoll |

Update:

- Email is unique, national ID is unique, and postal code is a foreign key
- file: routeHandler.php, function: handleUpdateAdopterRequest(), line: 585

BEFORE:

AdoptersInfo:

| AdopterID | NationalID | AdopterName | Phone Number | Email | Postal Code | House Number |
|-----------|------------|---------------|--------------|----------------------------|-------------|--------------|
| A000 | 7290920930 | Jane Smith | 7781234567 | jane98smith@gmail.com | 123456 | 12 |
| A001 | 7599921838 | Joe Johnson | 6449826543 | joe.johnson@gmail.com | | 17 |
| A002 | 7899234932 | Natalia Davis | 5223426189 | nattyisb32.davis@gmail.com | 34FS67 | 912 |
| A003 | 7899980938 | Jason Ng | 5671231212 | jas65.ng@gmail.com | 45A67S8 | 789 |
| A005 | 7145980938 | Clark Brown | 2355678912 | clark.brown456@outlook.com | V7TDZ4 | 23 |
| A006 | 7166980938 | Sara Brown | 2359929988 | sara.brown6@outlook.com | 444555 | 13 |
| A007 | 7166000038 | Andy Smith | 2352228888 | andy.smith@outlook.com | 444555 | 13 |
| A008 | 7166111038 | Ally Smith | 1010101010 | ally@outlook.com | 444555 | 13 |
| A009 | 7123450038 | Jones Blake | 2020202020 | jones@outlook.com | V7TDZ4 | 23 |

GUI (DURING): (in adopters.php page)

Update Adopter info below:

ID entered must match with an already existing ID. ID c

Id:

National Id:

Name:

Phone Number:

Email:

House number:

Postal Code:

AFTER:

| AdopterID | NationalID | AdopterName | Phone Number | Email | Postal Code | House Number |
|-----------|------------|---------------|--------------|----------------------------|-------------|--------------|
| A000 | 7290920930 | Jane Smith | 7781234567 | jane98smith@gmail.com | 123456 | 12 |
| A001 | 7599921838 | Joe Johnson | 6449826543 | joe.johnson@gmail.com | | 17 |
| A002 | 7899234932 | Natalia Davis | 5223426189 | nattyisb32.davis@gmail.com | 34FS67 | 912 |
| A003 | 7899980938 | Jason Ng | 5671231212 | jas65.ng@gmail.com | 45A67S8 | 789 |
| A005 | 7145980938 | Clark Brown | 2355678912 | clark.brown456@outlook.com | V7TDZ4 | 23 |
| A006 | 7166980938 | Sara Brown | 2359929988 | sara.brown6@outlook.com | 444555 | 13 |
| A007 | 7166000038 | Andy Smith | 2352228888 | andy.smith@outlook.com | 444555 | 13 |
| A008 | 7166111038 | Ally Smith | 1010101010 | ally@outlook.com | 444555 | 13 |
| A009 | 7123450038 | Jones Blake | 2020202020 | newuniqueemail@ubc.com | V7TDZ4 | 23 |

Selection:

- Selection on Cats table
- file:routeHandler.php, function handleSelectAnimalRequest() -> line 439 (the string for the query is built based on operator conditions, this starts at line 401-411 or 415-417)
- Note: in the queries we are joining cats with registered animal first, but this is only for the user to see the information on the shelter info AFTER the selection (as it makes more sense for user stories - the user would want to see where the cat lives after searching for their perfect cat). Because of this, registeredAnimal was NOT considered in the attributes for selection. The selection is still purely on cats table.

Before:

Cats:

| Animal ID | HasFur | Social |
|-----------|--------|--------|
| C000 | 1 | 1 |
| C001 | 1 | 0 |
| C002 | 1 | 1 |
| C003 | 1 | 1 |
| C004 | 1 | 0 |
| C005 | 0 | 1 |
| C006 | 1 | 0 |
| C007 | 1 | 0 |
| C008 | 1 | 0 |
| C009 | 0 | 1 |
| C010 | 1 | 1 |
| C011 | 1 | 1 |
| C012 | 1 | 1 |

RegisteredAnimal:

| Animal ID | Name | Adopted Description | Age | Weight | Breed | Shelter Location | Shelter Name |
|-----------|----------|-------------------------------------|-----|--------|---------------------|---|-------------------------------|
| C000 | Smokey | 0 A very cute cat. Loves to be pet. | 3 | 8 | British Shorthair | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| C001 | Pinky | 0 Not a playful cat. | 3 | 20 | Siamese | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| C002 | Bonbon | 1 Loves to cuddle and eat. | 3 | 15 | Bengal | 322 Dundas St W, Toronto, Ontario | Loving Care Animal Shelter |
| C003 | Bambi | 0 Bambi loves to be pet. | 1 | 13 | Calico | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C004 | Daisy | 1 Loves to eat. Always hungry | 5 | 15 | Ragdoll | 234 Willow Lane, Portland, USA | The Animal Haven |
| C005 | Kitkat | 1 Loves kitkats | 0 | 10 | Ragdoll | 234 Willow Lane, Portland, USA | The Animal Haven |
| C006 | Catcat | 0 is a very nice cat | 10 | 18 | Bengal | 234 Willow Lane, Portland, USA | The Animal Haven |
| C007 | Kitty | 0 Kitty is really cute | 4 | 10 | Calico | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| D000 | Spots | 1 A good boy, lots of energy. | 1 | 15 | Dalmatian | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| D001 | Jamie | 0 Playful dog and loves to cuddle | 5 | 20 | Labrador | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| D002 | Wolfie | 0 Loves to cuddle. | 3 | 15 | Golden Retriever | 322 Dundas St W, Toronto, Ontario | Loving Care Animal Shelter |
| D003 | Luna | 1 Luna loves when you pet her. | 1 | 8 | Chinese Crested Dog | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| D004 | Bear | 1 Loves to eat. | 1 | 3 | Husky | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| B000 | Coco | 1 Peaceful bird. | 3 | 8 | Finch | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| B001 | Bluey | 1 Speaks a lot. So cute. | 5 | 20 | Macaw | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| B002 | Jay | 0 Loves to speak | 3 | 15 | Parrot | 322 Dundas St W, Toronto, Ontario | Loving Care Animal Shelter |
| B003 | Raven | 0 Angry bird | 1 | 8 | Grey parrot | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| B004 | Kiwi | 0 Loves to eat. Always hungry | 1 | 3 | Dove | 234 Willow Lane, Portland, USA | The Animal Haven |
| C008 | Mr. Cat | 0 Fun cat | 3 | 4 | Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C009 | Paws | 1 Loves to run around | 3 | 3 | Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C010 | Whiskers | 1 Very active | 5 | 5 | Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C011 | Stripes | 0 Sleeps all day | 7 | 6 | Ragdoll | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C012 | Fuzzy | 0 Smart cat | 3 | 5 | Ragdoll | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |

During(GUI): in “cats.php page. (example selection of hasFur = 1 AND social = 1)

Cat ID:

OR ☐ hasFur:

AND ☐ Social:

After: (table that is displayed to GUI):

| Animal ID | Has Fur | Social | Shelter Location | Shelter Name |
|-----------|---------|--------|---|-------------------------------|
| C000 | 1 | 1 | 270 Gerrard St E, Toronto, Ontario | Lovely Pet Home |
| C002 | 1 | 1 | 322 Dundas St W, Toronto, Ontario | Loving Care Animal Shelter |
| C003 | 1 | 1 | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C010 | 1 | 1 | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C011 | 1 | 1 | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C012 | 1 | 1 | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |

Projection:

- Located in home page of website
- We will choose to project Vet table for example
- File: index.php, line: 75, 84

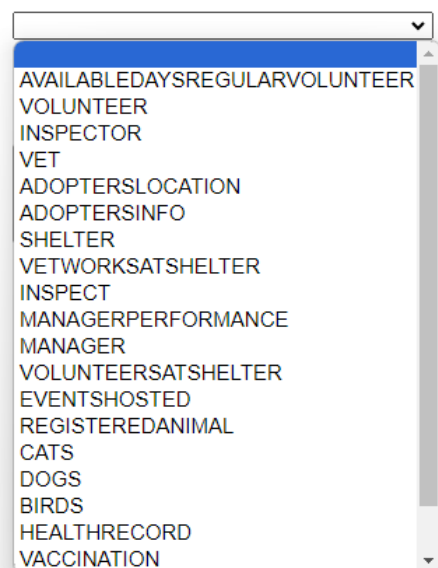
BEFORE:

Vet:

| VetID | Vet Name | Specialty | Years of Experience | Vet Location |
|-------|--------------|------------|---------------------|---------------|
| V001 | Andy White | Cardiology | 6 | Surrey |
| V002 | Jack Allen | Cardiology | 4 | Surrey |
| V003 | Jackie Brown | Neurology | 3 | Surrey |
| V004 | Mary Moore | Oncology | 2 | San Francisco |
| V005 | Sandy Blum | Dentistry | 8 | Dentistry |

GUI (during):

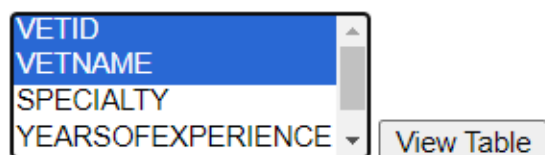
Select a table below to view it's contents:



old control to s

After choosing Vet table for above, we see this is now filled with Vet table attributes below:

Select attributes to view (hold control to select multiple)



AFTER:

- clicking "view table" displays the table below:

Table for: VET

| VETID | VETNAME |
|-------|--------------|
| V001 | Andy White |
| V002 | Jack Allen |
| V003 | Jackie Brown |
| V004 | Mary Moore |
| V005 | Sandy Blum |

JOIN:

- Joins Volunteer, AvailableDaysRegularVolunteer, and VolunteersAtShelter table

- AvailableDays in Volunteer is a FK to AvailableDaysRegularVolunteer
- User inputs 1 or 0 for if they are looking for regular/not regular volunteers IN THEIR SHELTER
- File: routeHandler.php, function: handleFindVolunteerRequest(), line: 462

BEFORE:

Our GUI displays all volunteers THEIR shelter to the user. (I am logged in as M005 - where shelterLocation = '10776 King George Boulevard, Surrey, British Columbia' and shelterName = 'Paws and Claws Animal Shelter';)

List of volunteers

Available volunteers have filled out their schedule and are consistently available at least once a week.

| Volunteer ID | Name | Days Available | Regular Volunteer | Phone Number | Start date |
|--------------|------------------|----------------|-------------------|--------------|------------|
| V448 | Jamie Finley | FTFFFTFF | Yes | 2342342344 | 04-OCT-11 |
| V447 | Jake Miles | FFFFFFFF | No | 1234567888 | 14-AUG-13 |
| V446 | Clare Cooper | TTTTFFF | Yes | 3452435267 | 05-SEP-19 |
| V445 | Blake Tran | TTTTFFF | Yes | 2233445566 | 23-FEB-10 |
| V444 | Robert Robertson | FFFFFFFF | No | 6046046044 | 18-DEC-10 |
| V126 | Chase Jones | TTTTFFF | Yes | 1231231234 | 01-JAN-07 |

GUI (DURING):

Find all regular or not regular volunteers in this shelter (enter 1 for regular and 0 otherwise)

Regular:

AFTER:

(table below is displayed to user)

| Volunteer ID |
|--------------|
| V444 |
| V447 |

Aggregation with GROUP BY:

file:routeHandler.php,function handleCalculateAvgRequest() -> line161

Before:

ALL registered animals in our DB:

| Animal ID | Name | Adopted Description | Age | Weight | Breed | Shelter Location | Shelter Name |
|-----------|--------|-------------------------------------|-----|--------|---------------------|---|-------------------------------|
| C000 | Smokey | 0 A very cute cat. Loves to be pet. | 3 | 8 | British Shorthair | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| C001 | Pinky | 0 Not a playful cat. | 3 | 20 | Siamese | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| C002 | Bonbon | 1 Loves to cuddle and eat. | 3 | 15 | Bengal | 322 Dundas St W, Toronto, Ontario | Loving Care Animal Shelter |
| C003 | Bambi | 0 Bambi loves to be pet. | 1 | 13 | Calico | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C004 | Daisy | 1 Loves to eat. Always hungry | 5 | 15 | Ragdoll | 234 Willow Lane, Portland, USA | The Animal Haven |
| C005 | Kitkat | 1 Loves kitkats | 0 | 10 | Ragdoll | 234 Willow Lane, Portland, USA | The Animal Haven |
| C006 | Catcat | 0 is a very nice cat | 10 | 18 | Bengal | 234 Willow Lane, Portland, USA | The Animal Haven |
| C007 | Kitty | 0 Kitty is really cute | 4 | 10 | Calico | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| D000 | Spots | 1 A good boy, lots of energy. | 1 | 15 | Dalmatian | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| D001 | Jamie | 0 Playful dog and loves to cuddle | 5 | 20 | Labrador | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| D002 | Wolfie | 0 Loves to cuddle. | 3 | 15 | Golden Retriever | 322 Dundas St W, Toronto, Ontario | Loving Care Animal Shelter |
| D003 | Luna | 1 Luna loves when you pet her. | 1 | 8 | Chinese Crested Dog | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| D004 | Bear | 1 Loves to eat. | 1 | 3 | Husky | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| B000 | Coco | 1 Peaceful bird. | 3 | 8 | Finch | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |
| B001 | Bluey | 1 Speaks a lot. So cute. | 5 | 20 | Macaw | 270 Gerrard St E, Toronto, Ontario | To Lovely Pet Home |

| | | | | | | | |
|------|----------|-------------------------------|---|----|-------------|---|-------------------------------|
| B002 | Jay | 0 Loves to speak | 3 | 15 | Parrot | 322 Dundas St W, Toronto, Ontario | Loving Care Animal Shelter |
| B003 | Raven | 0 Angry bird | 1 | 8 | Grey parrot | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| B004 | Kiwi | 0 Loves to eat. Always hungry | 1 | 3 | Dove | 234 Willow Lane, Portland, USA | The Animal Haven |
| C008 | Mr. Cat | 0 Fun cat | 3 | 4 | Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C009 | Paws | 1 Loves to run around | 3 | 3 | Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C010 | Whiskers | 1 Very active | 5 | 5 | Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C011 | Stripes | 0 Sleeps all day | 7 | 6 | Ragdoll | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C012 | Fuzzy | 0 Smart cat | 3 | 5 | Ragdoll | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |

Logged in as M005, these are animals for **THIS SHELTER ONLY**:

Aggregation with HAVING:

- File: vets.php, line: 75

Before:

Before filling in “Minimum Years of Experience” and clicking on “Find Vets”

| VetID | Vet Name | Specialty | Years of Experience | Vet Location |
|-------|--------------|------------|---------------------|---------------|
| V001 | Andy White | Cardiology | 6 | Surrey |
| V002 | Jack Allen | Cardiology | 4 | Surrey |
| V003 | Jackie Brown | Neurology | 3 | Surrey |
| V004 | Mary Moore | Oncology | 2 | San Francisco |
| V005 | Sandy Blum | Dentistry | 8 | Dentistry |

From website GUI (Logged in as M005, this is data for **THIS SHELTER ONLY**:
(shelterLocation = '10776 King George Boulevard, Surrey, British Columbia' and
shelterName = 'Paws and Claws Animal Shelter')

Vet Information

| Vet ID | Name | Specialty | Years of Experience | Vet Location |
|--------|--------------|------------|---------------------|--------------|
| V001 | Andy White | Cardiology | 6 | Surrey |
| V002 | Jack Allen | Cardiology | 4 | Surrey |
| V003 | Jackie Brown | Neurology | 3 | Surrey |

Specialties

| Specialty |
|-----------|
| |

During:

The user specifies the minimum years of experience and clicks on “Find Vets”

Specify experience level of Vet:

Enter a number below to see which specialties have vets in your shelter that match the minimum years of experience you specified.

Minimum Years of Experience:

Vet Information

| Vet ID | Name | Specialty | Years of Experience | Vet Location |
|--------|--------------|------------|---------------------|--------------|
| V001 | Andy White | Cardiology | 6 | Surrey |
| V002 | Jack Allen | Cardiology | 4 | Surrey |
| V003 | Jackie Brown | Neurology | 3 | Surrey |

Specialties

| Specialty |
|-----------|
| |

After:

Since the only vet specialty above 4 years of experience was Cardiology, the user gets Cardiology under the Specialties table. Note that this displays the vets in this shelter only.

Vet Information

| Vet ID | Name | Specialty | Years of Experience | Vet Location |
|--------|--------------|------------|---------------------|--------------|
| V001 | Andy White | Cardiology | 6 | Surrey |
| V002 | Jack Allen | Cardiology | 4 | Surrey |
| V003 | Jackie Brown | Neurology | 3 | Surrey |

Specialties

| Specialty |
|------------|
| Cardiology |

Nested Aggregation with GROUP BY:

File: cats.php -> line 104

Before:

This shows ALL cats in our DB

| Animal ID | HasFur | Social |
|-----------|--------|--------|
| C000 | 1 | 1 |
| C001 | 1 | 0 |
| C002 | 1 | 1 |
| C003 | 1 | 1 |
| C004 | 1 | 0 |
| C005 | 0 | 1 |
| C006 | 1 | 0 |
| C007 | 1 | 0 |
| C008 | 1 | 0 |
| C009 | 0 | 1 |
| C010 | 1 | 1 |
| C011 | 1 | 1 |
| C012 | 1 | 1 |

Logged in as M005, this is data for **THIS SHELTER ONLY**:
(shelterLocation = '10776 King George Boulevard, Surrey, British Columbia' and
shelterName = 'Paws and Claws Animal Shelter';)

| Animal ID | HasFur | Social Name | Adopted Description | Age | Weight | Breed | Shelter Location | Shelter Name |
|-----------|--------|-------------|--------------------------|-----|--------|---------|---|-------------------------------|
| C003 | 1 | 1 Bambi | 0 Bambi loves to be pet. | 1 | 13 | Calico | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C007 | 1 | 0 Kitty | 0 Kitty is really cute. | 4 | 10 | Calico | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C008 | 1 | 0 Mr. Cat | 0 Fun cat | 3 | 4 | Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C009 | 0 | 1 Paws | 1 Loves to run around | 3 | 3 | Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C010 | 1 | 1 Whiskers | 1 Very active | 5 | 5 | Siamese | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C011 | 1 | 1 Stripes | 0 Sleeps all day | 7 | 6 | Ragdoll | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |
| C012 | 1 | 1 Fuzzy | 0 Smart cat | 3 | 5 | Ragdoll | 10776 King George Boulevard, Surrey, British Columbia | Paws and Claws Animal Shelter |

During/After:
(We define overweight cats as those with weight > average weight)

List of Overweight Cats in this Shelter

| AnimalID | Weight | Breed |
|----------|--------|--------|
| C003 | 13 | Calico |
| C007 | 10 | Calico |

Division:

file:routeHandler.php -> function handlecatUnvaccinatedRequest() -> line 140

Before:

This shows ALL cats in our DB

| Animal ID | HasFur | Social |
|-----------|--------|--------|
| C000 | 1 | 1 |
| C001 | 1 | 0 |
| C002 | 1 | 1 |
| C003 | 1 | 1 |
| C004 | 1 | 0 |
| C005 | 0 | 1 |
| C006 | 1 | 0 |
| C007 | 1 | 0 |
| C008 | 1 | 0 |
| C009 | 0 | 1 |
| C010 | 1 | 1 |
| C011 | 1 | 1 |
| C012 | 1 | 1 |

Logged in as M005, this is data for **THIS SHELTER ONLY**:

(shelterLocation = '10776 King George Boulevard, Surrey, British Columbia' and
shelterName = 'Paws and Claws Animal Shelter';)

| Animal ID | HasFur | Social Name | Adopted | Description | Age | Weight | Breed | Shelter Location | Shelter Name |
|-----------|--------|-------------|---------|------------------------|-----|--------|---------|--|----------------------|
| C003 | 1 | 1 Bambi | 0 | Bambi loves to be pet. | 1 | 13 | Calico | 10776 King George Bo ulevard, Surrey, Bri l Shelter tish Columbia | Paws and Claws Anima |
| C007 | 1 | 0 Kitty | 0 | Kitty is really cute | 4 | 10 | Calico | 10776 King George Bo ulevard, Surrey, Bri l Shelter tish Columbia | Paws and Claws Anima |
| C008 | 1 | 0 Mr. Cat | 0 | Fun cat | 3 | 4 | Siamese | 10776 King George Bo ulevard, Surrey, Bri l Shelter tish Columbia | Paws and Claws Anima |
| C009 | 0 | 1 Paws | 1 | Loves to run around | 3 | 3 | Siamese | 10776 King George Bo ulevard, Surrey, Bri l Shelter tish Columbia | Paws and Claws Anima |
| C010 | 1 | 1 Whiskers | 1 | Very active | 5 | 5 | Siamese | 10776 King George Bo ulevard, Surrey, Bri l Shelter tish Columbia | Paws and Claws Anima |
| C011 | 1 | 1 Stripes | 0 | Sleeps all day | 7 | 6 | Ragdoll | 10776 King George Bo ulevard, Surrey, Bri l Shelter tish Columbia | Paws and Claws Anima |
| C012 | 1 | 1 Fuzzy | 0 | Smart cat | 3 | 5 | Ragdoll | 10776 King George Bo ulevard, Surrey, Bri l Shelter tish Columbia | Paws and Claws Anima |

Vaccination shows data about all vaccines

| Vaccine Name | Expiry Date | RecordID |
|---------------------------|-------------|----------|
| Rabies Vaccine | 22-FEB-45 | R123 |
| Bordetella Vaccine | 10-FEB-24 | R111 |
| Canine Parvovirus Vaccine | 06-JUN-30 | R222 |
| Feline Distemper Vaccine | 09-FEB-34 | R333 |
| Avian Influenza Vaccine | 02-SEP-29 | R444 |

getVaccination shows data about animals condition for getting vaccines.

| Animal ID | Vaccine Name | Date of Vaccination |
|-----------|---------------------------|---------------------|
| C000 | Rabies Vaccine | 20-JAN-22 |
| C000 | Bordetella Vaccine | 21-MAR-22 |
| C000 | Canine Parvovirus Vaccine | 04-FEB-21 |
| C000 | Feline Distemper Vaccine | 09-SEP-22 |
| C000 | Avian Influenza Vaccine | 09-FEB-23 |
| C008 | Rabies Vaccine | 22-JAN-22 |
| C008 | Bordetella Vaccine | 21-APR-22 |
| C008 | Canine Parvovirus Vaccine | 04-JAN-20 |
| C008 | Feline Distemper Vaccine | 09-JUL-21 |
| C008 | Avian Influenza Vaccine | 09-FEB-20 |
| C010 | Rabies Vaccine | 26-JAN-22 |
| C010 | Bordetella Vaccine | 26-MAR-22 |
| C010 | Canine Parvovirus Vaccine | 04-DEC-21 |
| C010 | Feline Distemper Vaccine | 19-NOV-22 |
| C010 | Avian Influenza Vaccine | 19-OCT-23 |
| C012 | Bordetella Vaccine | 26-MAY-22 |
| C012 | Canine Parvovirus Vaccine | 13-OCT-21 |
| C012 | Feline Distemper Vaccine | 09-DEC-22 |
| C012 | Avian Influenza Vaccine | 20-JAN-23 |

| | | |
|------|----------------------|-----------|
| C002 | Avian Influenza Vacc | 17-SEP-23 |
| | ine | |
| C003 | Rabies Vaccine | 20-JAN-22 |
| C003 | Bordetella Vaccine | 21-MAR-22 |
| C003 | Canine Parvovirus Va | 04-FEB-21 |
| | ccine | |
| C003 | Feline Distemper Vac | 09-SEP-22 |
| | cine | |
| C003 | Avian Influenza Vacc | 09-FEB-23 |
| | ine | |
| D001 | Bordetella Vaccine | 04-FEB-21 |
| D003 | Rabies Vaccine | 20-JAN-22 |
| D003 | Bordetella Vaccine | 21-MAR-22 |
| D003 | Canine Parvovirus Va | 04-FEB-21 |
| | ccine | |
| D003 | Feline Distemper Vac | 09-SEP-22 |
| | cine | |
| D003 | Avian Influenza Vacc | 09-FEB-23 |
| | ine | |
| D002 | Bordetella Vaccine | 09-SEP-22 |
| D002 | Feline Distemper Vac | 09-FEB-23 |
| | cine | |
| B001 | Rabies Vaccine | 20-JAN-22 |
| B001 | Bordetella Vaccine | 21-MAR-22 |
| B001 | Canine Parvovirus Va | 04-FEB-21 |
| | ccine | |
| B001 | Feline Distemper Vac | 09-SEP-22 |
| | cine | |
| B001 | Avian Influenza Vacc | 09-FEB-23 |
| | ine | |
| B002 | Rabies Vaccine | 20-JAN-22 |
| B003 | Bordetella Vaccine | 21-MAR-22 |
| B002 | Canine Parvovirus Va | 04-FEB-21 |
| | ccine | |
| B004 | Feline Distemper Vac | 09-SEP-22 |
| | cine | |

During: (User just click this button to view results)

List of Cats get all vaccines

View Result

After:

List of Cats get all vaccines in this shelter

View Result

| AnimalID | Name |
|----------|----------|
| C003 | Bambi |
| C008 | Mr. Cat |
| C010 | Whiskers |
