### **Features**[**¶**](https://ed.devmountain.com/materials/fah3/exercises/data-modeling/#features)

* What types of animals the adoption agency has
* If the type of animal is in need of medical attention
* Size of animal
* Cats and dogs will have their own list
* “Other” will also be available
* Adoptees will be able to see what dog/cat/other is up for adoption

Brainstorming

* type
* size
* cats
* dogs
* Medical attention
* “Other” types of animals

Tables

* animals
  + Cats, dogs, other
* Size
  + Caged
  + Under 50lbs
  + Over 50lbs.
* Cats
  + Name/Unique Id
  + Species
  + spayed/neutered
* Dogs
  + Name/Unique ID
  + Species
  + spayed/neutered
* Medical\_attention
  + Type of injury
  + adoption\_eligible

CREATE TABLE "public.Animals" (

"dogs" TEXT NOT NULL,

"cats" TEXT NOT NULL,

"other" TEXT NOT NULL

) WITH (

OIDS=FALSE

);

CREATE TABLE "public.Size" (

"Caged" TEXT NOT NULL,

"under\_50\_lbs" TEXT NOT NULL,

"over\_50\_lbs" TEXT NOT NULL

) WITH (

OIDS=FALSE

);

CREATE TABLE "public.Cats" (

"species" TEXT NOT NULL,

"fixed" TEXT NOT NULL,

"name\_cats" TEXT NOT NULL UNIQUE,

"size\_big" TEXT NOT NULL,

"size\_small" TEXT NOT NULL,

"adoption\_cats" TEXT NOT NULL

) WITH (

OIDS=FALSE

);

CREATE TABLE "public.Dogs" (

"species" TEXT NOT NULL,

"name\_dogs" TEXT NOT NULL UNIQUE,

"size\_big" TEXT NOT NULL,

"adoption\_dogs" TEXT NOT NULL,

"size\_small" TEXT NOT NULL

) WITH (

OIDS=FALSE

);

CREATE TABLE "public.Medical\_attention" (

"type\_of\_injury" TEXT NOT NULL,

"adoption\_eligible" TEXT NOT NULL

) WITH (

OIDS=FALSE

);

ALTER TABLE "Animals" ADD CONSTRAINT "Animals\_fk0" FOREIGN KEY ("dogs") REFERENCES "Dogs"("species");

ALTER TABLE "Animals" ADD CONSTRAINT "Animals\_fk1" FOREIGN KEY ("cats") REFERENCES "Cats"("species");

ALTER TABLE "Animals" ADD CONSTRAINT "Animals\_fk2" FOREIGN KEY ("other") REFERENCES "Size"("Caged");

ALTER TABLE "Cats" ADD CONSTRAINT "Cats\_fk0" FOREIGN KEY ("name\_cats") REFERENCES "Animals"("cats");

ALTER TABLE "Cats" ADD CONSTRAINT "Cats\_fk1" FOREIGN KEY ("size\_big") REFERENCES "Size"("over\_50\_lbs");

ALTER TABLE "Cats" ADD CONSTRAINT "Cats\_fk2" FOREIGN KEY ("size\_small") REFERENCES "Size"("under\_50\_lbs");

ALTER TABLE "Cats" ADD CONSTRAINT "Cats\_fk3" FOREIGN KEY ("adoption\_cats") REFERENCES "Medical\_attention"("adoption\_eligible");

ALTER TABLE "Dogs" ADD CONSTRAINT "Dogs\_fk0" FOREIGN KEY ("name\_dogs") REFERENCES "Animals"("dogs");

ALTER TABLE "Dogs" ADD CONSTRAINT "Dogs\_fk1" FOREIGN KEY ("size\_big") REFERENCES "Size"("under\_50\_lbs");

ALTER TABLE "Dogs" ADD CONSTRAINT "Dogs\_fk2" FOREIGN KEY ("adoption\_dogs") REFERENCES "Medical\_attention"("adoption\_eligible");

ALTER TABLE "Dogs" ADD CONSTRAINT "Dogs\_fk3" FOREIGN KEY ("size\_small") REFERENCES "Size"("under\_50\_lbs");