

**a. Relationships**

- 1:m relationship between Clinic and Staff
- 1:0..1 relationship between Manager and Clinic
- 1:1..n between Owner and Pet
- 1:1 relationship between Pet and Clinic
- 1:1 relationship between Examination and Pet

**b. Normalization**

- Staff(**staffNo**,sName,sAddress,sPhoneNo,sDateOfBirth,position,salary,*clinicNo*)
- Clinic(**clinicNo**,cName,cAddress,cPhoneNo)
- Pet(**petNo**,pName,pDateOfBirth,species,breed,color,*ownerNo*,*clinicNo*)
- Owner(**ownerNo**,oName,oAddress,oPhoneNo)
- Exam(**examNo**,complaint,description,dateSeen,actionsTaken,*petNo*,*staffNo*)
- Manager(**managerNo**,*staffNo*,*clinicNo*)

**c. User Transactions**

- List the number of pets each owner has. Display the owner's name.
  - Pet.ownerNo = Owner.ownerNo
- List exams that were done after between June 2022 and October 2022. Display the pet's name, breed, description, and date.
  - date between 2022/06/01 and 2022/10/31
- List the managers. Display the name of the clinic they manage.
  - use clinicNo in Manager table to get clinic name from Clinic table
- List the staff with salary > 50000 in ascending order. Display the staff's name, position, and salary.
  - where salary > 5000
- List the number of pets and staff each clinic has. Display the clinic name, staff name address.
  - count(\*)

**d. Integrity Constraints**

- dateSeen and dateOfBirth must be date
- address, name, breed, color, phoneNo, complaint, description, actionsTaken, species, position must be string
- staffNo, clinicNo, petNo, ownerNo, examNo, and managerNo cannot be null

