

- a. petOwner - Pet --> Owner owns pet(s); Pet is owned by owner
Clinic - petOwner --> Clinic has petOwner; petOwners go to clinic.
Clinic - staff --> Clinic has staff; Staff belong to Clinic
Clinic - examination --> Clinic does examination; Examinations belong to clinic
- b. Clinic(clinicNO(PK), clinicName, address, telephone(CK), staffNO (FK),
ownerNO(FK), examNO(FK)
Staff(staffNO(PK), address, telephone(CK), dob, position, salary)
petOwner(OwnerNO(PK), name, address, telephone(CK), petNO(CK))
Pet(petNO(PK), name, dob, species, breed, color)
Examination(examNO(PK), chiefComplaint, description, dateSeen)
- c.
1. List 200 employees in the "IT" department.
 2. List all pets under ownerNO '754'.
 3. List the telephone number for clinic named "Heritage".
 4. List all examinations on the date "11-04-2016".
 5. List all pets with the species "Husky".
- d.
- Primary Key:**
- Staff (staffNO), clinic(clinicNO), petOwner(OwnerNO),
examination(examNO), pet(petNO))
- Foreign Key:**
- clinic (staffNO, OwnerNO, examNO)
pet(petNO)

Candidate Key:

Staff(**telephoneNO**)

Clinic(**telephoneNO**)

petOwner(**telephoneNO**)

Required Data:

No primary key can be a null value:

staffNO, clinicNO, OwnerNO, examNO, petNO are examples of required data that cannot be null.

Attribute Domain Constraint:

telephoneNO has to be 10 digits.

staffNO has to be <4 characters

salary has to be an int

General Constraints:

dob cannot be > the current date

dateSeen cannot be > the current date

F.

