CSC 423

1 November 2022

Project 1 Report

a. Identify the main entity types.

Clinic, Staff, Owner, Pet, Examination

b. Identify the main relationship types between the entity types identified in "a".

Clinic <Has> Staff

Staff < Manages > Clinic

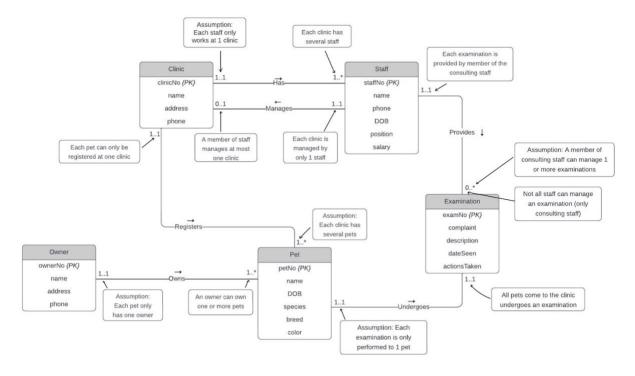
Clinic < Registers > Pet

Owner < Owns> Pet

Pet < Undergoes > Examination

Staff < Provides > Examination

c. Determine the multiplicity constraints for each relationship identified in "b".



Assumptions are stated in the diagram

d. Identify attributes and associate them with entity or relationship types.

Clinic: clinicNo, name, address, phone

Staff: staffNo, name, address, phone, DOB, position, salary

Owner: ownerNo, name, address, phone

Pet: petNo, name, DOB, species, breed, color

Examination: examNo, complaint, description, dateSeen, actionsTaken

e. Determine candidate and primary key attributes for each (strong) entity type.

Clinic: clinicNo (primary key), phone (candidate key)

Assumption: Each clinic has a unique telephone number

Staff: staffNo (primary key), phone (candidate key)

Assumption: Each staff has a unique telephone number

Owner: ownerNo (primary key), phone (candidate key)

Assumption: Each owner has a unique telephone number

Pet: petNo (primary key)

Examination: examNo (primary key)

f. Generate the E-R diagram for the conceptual level (no FKs as attributes).

