1. Develop a conceptual data model reflecting the following requirements:

a. Identify the main entity types.
Main Entity Types: Clinic, Staff, Owner, Pet, Examination

b. Identify the main relationship types between the entity types identified in "a".
Main Relationship Types:
Clinic employs Staff
Staff manages Clinic
Owner owns Pet
Pet registered at Clinic
Staff conducts Examination on Pet

c. Determine the multiplicity constraints for each relationship identified in "b".
Multiplicity Constraints:
One Clinic employs many Staff
One Staff manages one Clinic
One Owner owns many Pets
One Pet is registered at one Clinic
One Staff conducts many Examinations
One Pet has many Examinations

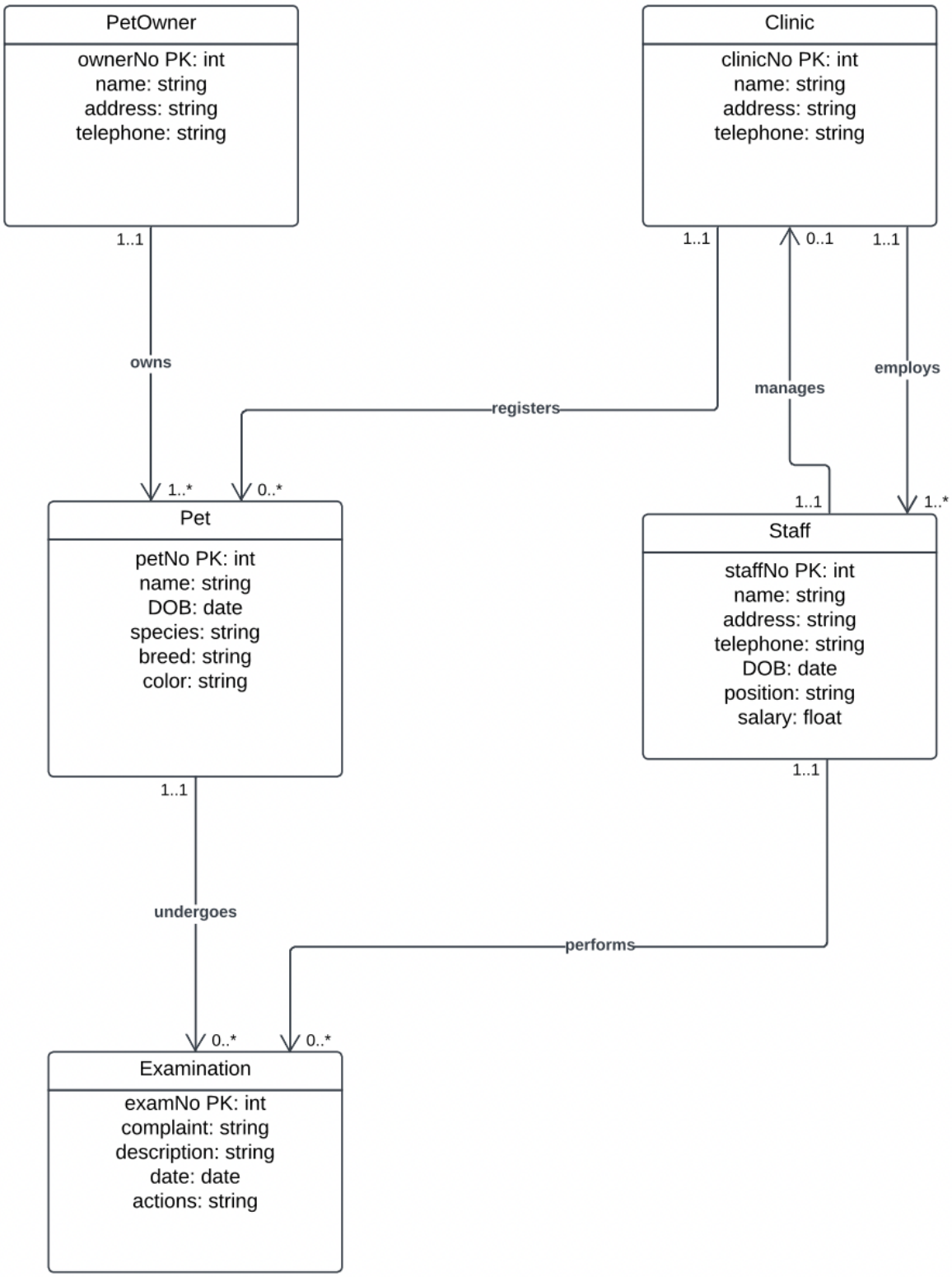
d. Identify attributes and associate them with entity or relationship types.
1. **Clinic** entity with attributes: clinicNo (primary key), name, address, telephone number.
2. **Staff** entity with attributes: staffNo (primary key), name, address, telephone number, DOB, position, salary.
3. **Owner** entity with attributes: ownerNo (primary key), name, address, telephone number.
4. **Pet** entity with attributes: petNo (primary key), name, DOB, animal species, breed, color.
5. **Examination** entity with attributes: examNo (primary key), chief complaint, description, date seen, actions taken.

e. Determine candidate and primary key attributes for each (strong) entity type.
Primary Keys:
Clinic: clinicNo
Staff: staffNo
Owner: ownerNo
Pet: petNo
Examination: examNo

Entity 1	M_1	Relationship	M_2	E_2	Type of Relationship
Clinic	1..1	employs	1..M	Staff	1:M
Staff	1..1	manages	0..1	Clinic	1:1
Clinic	1..1	registers	0..M	Pet	1:M
PetOwner	1..1	owns	1..M	Pet	1:M

Pet	1..1	undergoes	0..M	Examination	1:M
Staff	1..1	performs	0..M	Examination	1:M

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


PetOwner
ownerNo PK: int
name: string
address: string
telephone: string
Clinic
clinicNo PK: int
name: string
address: string
telephone: string
1..1
owns
1..*
registers
0..*
1..1
0..1
manages
1..1
1..1
employs
1..*
Pet
petNo PK: int
name: string
DOB: date
species: string
breed: string
color: string
Staff
staffNo PK: int
name: string
address: string
telephone: string
DOB: date
position: string
salary: float
1..1
undergoes
0..*
performs
0..*
Examination
examNo PK: int
complaint: string
description: string
date: date
actions: string