- 1. Develop a conceptual data model reflecting the following requirements: (11/01/22)
 - a. Identify the main entity types.
 - Clinic, Staff, Pet Owner, Pet, Examination
 - b. Identify the main relationship types between the entity types identified in "a".

Entity	Relationship	Entity	
Clinic	Employs	Staff	
Staff	Manages	Clinic	
Clinic	Registers	Pet	
Owner	Owns	Pet	
Pet	Undergoes	Examination	
Staff	Performs	Examination	

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

Entity	Multiplicity	Relationship	Multiplicity	Entity
Clinic	1	employs	1*	Staff
Staff	1	manages	01	Clinic
Clinic	1	registers	0*	Pet
Owner	1	owns	1*	Pet
Pet	1	undergoes	0*	Examination
Staff	1	Performs	0*	Examination

- This assumes that a clinic can have no pets registered at that clinic
- d. Identify attributes and associate them with entity or relationship types.
 - Entity Attributes:
 - o Clinic: clinicNo, name, address, phoneNo

- Staff: staffNo, name, address, phoneNo, dateOfBirth, position, salary
- o Pet: petNo, name, dateOfBirth, species, breed, color
- Owner: ownerNo, name, address, phoneNo
- Examination: examNo, chiefComplaint, description, dateSeen, actions
- Relationship Attributes:
 - None in this case study
- e. Determine candidate and primary key attributes for each (strong) entity type.
 - Clinic:
 - PK: clinicNo
 - CK: address, name, phoneNo
 - Staff:
 - o PK: staffNo
 - CK: There are no other Alternative Keys since the only unique identifier is staffNo
 - Owner:
 - PK: ownerNo
 - CK: There are no other Alternative Keys since the only unique identifier is ownerNo
 - Pet:
 - o PK: petNo
 - CK: There are no other Alternative Keys since the only unique identifier is petNo
 - Examination:
 - o PK: examNo
 - CK: There are no other Alternative Keys since the only unique identifier is examNo
 - This assumes that no two clinics share the same building/address and that no two clinics share the same clinic name

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

