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CSC 423 - Database Systems

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Project: Part 1

1.a

Main Entity Types:

Clinic, Staff, PetOwner, Pet, Examination

1.b and 1.c in table in last page

Main relationships types between the entity types in “a” and their multiplicity constraints for each relationship

1.d and 1.e

Attributes:

- Clinic
 - clinicNo - primary key
 - name
 - address
 - telephoneNo
- Staff
 - staffNo - primary key
 - name
 - address
 - telephoneNo
 - DOB
 - position
 - salary
- PetOwner
 - ownerNo - primary key
 - name
 - address
 - telephoneNo
- Pet
 - petNo - primary key
 - name
 - DOB
 - species
 - breed
 - color
- Examination
 - examNo - primary key
 - chiefComplaint
 - description
 - dateSeen
 - actionsTake

Entity 1	Relationship	Entity 2	Participation (min)	Cardinality (max)	Multiplicity	Type of Relationship
Clinic	Has	Staff	1	*	1..*	1:*
Staff	IsPartOf	Clinic	1	1	1..1	
Staff	Manages	Clinic	0	1	0..1	1:1
Clinic	ManagedBy	Staff	1	1	1..1	
PetOwner	Owns	Pet	1	*	1..*	1:*
Pet	OwnedBy	PetOwner	1	1	1..1	
Pet	RegisteredBy	Clinic	1	1	1..1	1:*
Clinic	Registers	Pet	1	*	1..*	
Clinic	ContactedBy	PetOwner	1	*	1..*	1:*
PetOwner	Contacts	Clinic	1	1	1..1	
Pet	Undergoes	Examination	1	1	1..1	1:*
Examination	DoneOn	Pet	1	*	1..1	
Staff	ParticipatesIn	Examination	1	*	1..*	1:*
Examination	PerformedBy	Staff	1	1	1..1	

Pawsome Pets - Conceptual Model

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