CSCI 3287
Final Project Relational Algebra
Abdur Khan

Q1.

View1 ← $\pi_{\text{PetID, Service, DateOfService}}$ (PET $\bowtie_{\text{PET.PetID = MEDICAL.MedicalPetID}}$ MEDICAL)

Q2.

View2 ← $\pi_{\text{SUM(Cost), Service, DateOfService}} \leftarrow {}_{\text{Service},}\mathfrak{F}$ SUM(Cost) $\sigma_{\text{DateOfService > "2020/01/01"}}$ MEDICAL

Q3.

View3 ← $\pi_{\text{PetName, Status, LengthOfStay}}$ (PET $\bowtie_{\text{PET.PetID = ADOPTIONAdoptionPetID}}$ ADOPTION) σ ADOPTION.AdoptionPetID = NULL

Q4.

View4 ← $\pi_{\text{PetName, OwnerName, Status, AdoptionDate}}$ (PET $\bowtie_{\text{PET.PetID = Adoption.AdoptionPetID}}$ ADOPTION)(OWNER $\bowtie_{\text{OWNER.OwnerID = ADOPTION.AdoptionOwnerID}}$ ADOPTION)

Q5.

View5 ← $\pi_{\text{PetName, Age, HealthStatus, Species, ArrivalDate}}$ (PET $\bowtie_{\text{PET.PetID = ADOPTIONAdoptionPetID}}$ ADOPTION)

Q6.

View6 ← $\pi_{\text{PetName,Species, OwnerName}}$ $\sigma_{\text{ADOPTION.AdoptionPetID = NULL}}$ (OWNER$\bowtie_{\text{OWNER.Preference= PET.Species}}$ PET)(PET $\bowtie_{\text{PET.PetID = ADOPTIONAdoptionPetID}}$ ADOPTION)

Q7.

View7 ←$\pi_{\text{Breed, COUNT(AdoptionPetID) -> AdoptionCount}}$ (PET $\bowtie_{\text{PET.PetID = ADOPTIONAdoptionPetID}}$ ADOPTION)