**2.38.**

A.

PET\_AND\_OWNER(PetName, PetType, PetBreed, PetDOB, OwnerLastName, OwnerFirstName, OwnerPhone, OwnerEmail)

Functional dependencies are then outlined

Pet Name 🡪 (PetType, PetBreed, PetDOB, OwnerLastName, OwnerFirstName, OwnerPhone, OwnerEmail)

OwnerLastName, OwnerFirstName🡪(OwnerPhone, OwnerEmail)

Candidate Keys for PET\_AND\_OWNER- PetName

B.

PET(PetName, PetType, PetBreed, PetDOB)

OWNER(OwnerLastName, OwnerFirstName, OwnerPhone, OwnerEmail)

Functional dependencies are outlined for both PET and OWNER:

OwnerLastName, OwnerFirstName🡪(OwnerPhone, OwnerEmail)

Candidate Keys for OWNER- OwnerLastName, OwnerFirstName

PetName🡪PetType, PetBreed, PetDOB, OwnerLastName, OwnerFirstName

Candidate Key for PET- PetName

C. Normalized Relations

PET(PetName, PetType, PetBreed, PetDOB, OwnerLastName, OwnerFirstName)

OWNER(OwnerLastName, OwnerFirstName, OwnerPhone, OwnerEmail)

**2.39**

A.

PET\_OWNER\_SERVICE(PetName, PetType, PetBreed, PetDOB, OwnerLastName, OwnerFirstName, OwnerPhone, OwnerEmail, Service, Date, Charge)

Functional dependencies are outlined:

PetName 🡪 (PetType, PetBreed, PetDOB)

OwnerLastName, OwnerFirstName 🡪 (OwnerPhone, OwnerEmail)

Service🡪 (Date, Charge)

Candidate Keys for PET\_OWNER\_SERVICE- PetName

B.

PET(PetName, PetType, PetBreed, PetDOB, OwnerLastName, OwnerFirstName)

Functional dependency- PetName🡪(PetType, PetBreed, PetDOB, OwnerLastName, OwnerFirstName

Candidate Keys for PET- PetName

OWNER(OwnerLastName, OwnerFirstName, OwnerPhone, OwnerEmail)

Functional Dependency- OwnerLastName, OwnerFirstName🡪 (OwnerPhone, OwnerEmail)

Candidate Keys for OWNER- OwnerLastName, OwnerFirstName

SERVICE(Service, PetName, OwnerLastName, OwnerFirstName, Date, Charge)

Functional Dependency- Service🡪 (PetName, OwnerLastName, OwnerFirstName, Date Charge)

Candidate Keys for Service- Service, PetName

C. Normalized Relations

PET(PetName, PetType, PetBreed, PetDOB, OwnerLastName, OwnerFirstName)

OWNER(OwnerLastName, OwnerFirstName, OwnerPhone, OwnerEmail)

SERVICE(Service, PetName, OwnerLastName, OwnerFirstName, Date, Charge)