Damler, Lucas

CSCI 466

1.)

a.) No it is not in 1NF. There are repeating groups

PetStore (storeBranchName, storeAddr, storeManager, customerName, customerAddr, customerPhone, petName, petBreed, petSex, price)

b.) No it is not in 2NF. There are attributes not dependent on primary key

PetStore (storeBranchName, storeAddr, storeManager, customerName)

Customer (customerName, customerAddr, customerPhone)

Pets (customerName, petName, petBreed, petSex)

StoreCustomer (customerName, storeBranchName, petName)

Breed (petBreed, price)

c.) Yes. Solved in previous answer

2.)

a.) Yes. No repeating groups

b.) No. There are attributes not dependent on primary key

R (A, B, C)

R2 (C, D)

R3 (A, C, E)

c.) Yes. See previous answers

3.)

a.) Yes. No repeating groups

b.) Yes. All attributes are dependent on primary key

c.) No. There are transitive dependencies

price (product, sName, qty)

Address (sName, storeLocation)

Product (product, uPrice, uniteWeight)

4.)

a.) No. There are repeating groups

Person (personID, name, country, phone, type)

b.) Yes. All attributes are dependent in primary key

c.) No. There is a transitive dependency

Person (personID, name, country, phone)

Name (name, country)

Phone (phone, type)

5.)

a.) No. There are repeating groups

carTheft (VID, vehicleType, ownerID, ownerName, suspectID, suspectName)

b.) No. All attributes are not dependent on primary key.

carTheft (VID, vehicleType, ownerID, ownerName)

Suspect (suspectID, suspectName)

c.) No. There are transitive dependencies

carTheft (VID, vehicleType, ownerID)

Owner (ownerID, ownerName)

Suspect (suspectID, suspectName)