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Assignment 4

a)

```
SELECT A.type, A.gender, L.locName, AD.name
FROM Animals A
JOIN Admission ADM ON A.aID = ADM.animalID
JOIN Adoption ADP ON A.aID = ADP.animalID
JOIN HSO_Location L ON ADM.locID = L.locID
JOIN Adopter AD ON ADP.SIN = AD.SIN
WHERE ADP.adoptDate BETWEEN '2021-01-20' AND '2021-02-20';
```

b)

```
SELECT A.aID, A.type, A.gender, A.chipNo
FROM Animals A
JOIN Adoption ADP ON A.aID = ADP.animalID
GROUP BY A.aID, A.type, A.gender, A.chipNo
HAVING COUNT(DISTINCT ADP.SIN) >= 3;
```

c)

```
SELECT AD.name, AD.phone
FROM Adoption ADP
JOIN Admission ADM ON ADP.animalID = ADM.animalID
JOIN HSO_Location L1 ON ADP.locID = L1.locID
JOIN HSO_Location L2 ON ADM.locID = L2.locID
JOIN Adopter AD ON ADP.SIN = AD.SIN
WHERE L1.province <> L2.province;
```

d)

```
SELECT AD.name, AD.phone
FROM Adopter AD
WHERE NOT EXISTS (
    SELECT 1
    FROM Adoption ADP
    JOIN Animals A ON ADP.animalID = A.aID
```

```
    WHERE ADP.SIN = AD.SIN AND A.gender = 'Male'
);
```

e)

```
SELECT AD.name, AD.phone
FROM Adopter AD
WHERE NOT EXISTS (
    SELECT DISTINCT A.type
    FROM Animals A
    WHERE NOT EXISTS (
        SELECT 1
        FROM Adoption ADP
        WHERE ADP.SIN = AD.SIN AND ADP.animalID = A.aID
    )
);
```