

## Assignment 4

COMP 353 CD – Databases

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1.

a)

```
SELECT type, gender, locName, name
FROM Animals
    JOIN Admission ON Animals.aID = Admission.animalID
    JOIN HSO_Location ON Admission.locID = HSO_Location.locID
    JOIN Adoption ON Animals.aID = Adoption.animalID
    JOIN Adopter ON Adoption.SIN = Adopter.SIN
WHERE YEAR(adoptDate) = 2024 AND YEAR(dateAdmitted) = 2025
```

Note: the logic would have no result due to the WHERE line, there is a logic incongruence

b)

```
SELECT aID, type, gender, chipNo
FROM Animals
    JOIN Admission ON Animals.aID = Admission.animalID
GROUP BY aID
HAVING COUNT(DISTINCT dateAdmitted) >= 3
```

c)

```
SELECT name, phone
FROM Adopter
    JOIN Adoption ON Adopter.SIN = Adoption.SIN
    JOIN Admission ON Adoption.animalID = Admission.animalID
    JOIN HSO_Location ON Admission.locID = HSO_Location.locID
WHERE Adopter.province != HSO_Location.province
```

GROUP BY SIN

d)

SELECT name, phone

FROM Adopter

JOIN Adoption ON Adopter.SIN = Adoption.SIN

JOIN Animals ON Adoption.animalID = Animals.aID

GROUP BY SIN

HAVING MIN(gender) = 'Male'

e)

SELECT name, phone

FROM Adopter

JOIN Adoption ON Adopter.SIN = Adoption.SIN

JOIN Admission ON Adoption.animalID = Admission.animalID

JOIN HSO\_Location ON Admission.locID = HSO\_Location.locID

WHERE city = 'Montreal'

GROUP BY SIN

HAVING (SELECT COUNT(\*) FROM HSO\_Location WHERE city = 'Montreal') =  
COUNT(DISTINCT locID)