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CS 360

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Assignment #2

1)

SELECT Pets.PetID, Pets.Name, Pets.TypeofPet

FROM Pets

INNER JOIN Owns ON Pets.PetID = Owns.PetID

INNER JOIN Owners ON Owns.OID = Owners.OID

WHERE Owners.AnnualIncome = 0

AND Owners.Age < 18

AND Pets.City = 'Moscow'

AND Pets.State = 'Idaho'

ORDER BY Pets.Name ASC, Pets.TypeofPet DESC;

2)

SELECT Owners.OID, Owners.LastName, Pets.PetID, Pets.Name

FROM Pets

INNER JOIN Owns ON Owns.PetID = Pets.PetID

INNER JOIN Owners ON Owners.OID = Owns.OID

INNER JOIN Purchases ON Purchases.OID = Owners.OID

WHERE Purchases.FoodID IN (

SELECT f1.FoodID

FROM Foods f1

LEFT JOIN Foods f2

ON f1.TypeofFood = f2.TypeofFood

AND f1.Price < f2.Price

WHERE f2.FoodID IS NULL

);

3)

SELECT p1.PetID, p1.Name

FROM Pets p1, Pets p2

WHERE p1.Name = p2.Name

GROUP BY p1.PetID, p1.Name

HAVING COUNT(DISTINCT p2.State) = 50;

4)

SELECT f1.Brand

FROM Foods f1

LEFT JOIN Foods f2 ON f1.TypeofFood = f2.TypeofFood

AND f1.Price < f2.Price

WHERE f2.FoodID IS NULL;

5)

SELECT f1.FoodID, f1.Brand, f1.Price

FROM Foods f1

LEFT JOIN Foods f2 ON f1.Brand = f2.Brand

AND f1.Price < f2.Price

WHERE f2.FoodID IS NULL;