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CS 360

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Assignment #3 Work

1) CHECK AND ADD OUTER JOIN?

CREATE VIEW MoscowMinorPets AS

WITH PetsC AS (

SELECT \*

FROM Pets

)

SELECT PetsC.PetID, PetsC.Name, PetsC.TypeofPet

FROM PetsC

INNER JOIN Owns ON PetsC.PetID = Owns.PetID

INNER JOIN Owners ON Owns.OID = Owners.OID

WHERE Owners.AnnualIncome = 0

AND Owners.Age < 18

AND PetsC.City = 'Moscow'

AND PetsC.State = 'Idaho'

AND Owns.PetID IS NOT NULL

AND Owners.OID IS NOT NULL;

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

FROM Pets

LEFT JOIN Owns ON Pets.PetID = Owns.PetID

LEFT JOIN Owners ON Owns.OID = Owners.OID

WHERE Owners.AnnualIncome = 0

AND Owners.Age < 18

AND Pets.City = 'Moscow'

AND Pets.State = 'Idaho'

AND Owns.PetID IS NOT NULL

AND Owners.OID IS NOT NULL;

2)

CREATE VIEW OwnersNoLiveWithPets AS

WITH OwnsC AS (

SELECT \*

FROM Owns

)

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

FROM Pets

LEFT JOIN OwnsC ON Pets.PetID = OwnsC.PetID

LEFT JOIN Owners ON OwnsC.OID = Owners.OID

WHERE "Pets.`Street#`" != "Owners.`Street#`"

OR Pets.City != Owners.City

OR Pets.State != Owners.State

OR Pets.ZipCode != Owners.ZipCode

AND OwnsC.PetID IS NOT NULL

AND Owners.OID IS NOT NULL;

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

FROM Pets

LEFT JOIN Owns ON Pets.PetID = Owns.PetID

LEFT JOIN Owners ON Owns.OID = Owners.OID

WHERE "Pets.`Street#`" != "Owners.`Street#`"

OR Pets.City != Owners.City

OR Pets.State != Owners.State

OR Pets.ZipCode != Owners.ZipCode

AND Owns. PetID IS NOT NULL

AND Owners.OID IS NOT NULL;

3)

CREATE VIEW PetsNoEatFavFood AS

WITH PetsC AS (

SELECT \*

FROM Pets

)

SELECT PetsC.PetID, PetsC.Name

FROM PetsC

LEFT JOIN Purchases

ON PetsC.PetID = Purchases.PetID

LEFT JOIN Foods

ON Purchases.FoodID = Foods.FoodID

LEFT JOIN Likes

ON PetsC.PetID = Likes.PetID

AND Foods.TypeofFood = Likes.TypeofFood

WHERE Likes.TypeofFood IS NULL;

SELECT Pets.PetID, Pets.Name

FROM Pets

LEFT JOIN Purchases

ON Pets.PetID = Purchases.PetID

LEFT JOIN Foods

ON Purchases.FoodID = Foods.FoodID

LEFT JOIN Likes

ON Pets.PetID = Likes.PetID

AND Foods.TypeofFood = Likes.TypeofFood

WHERE Likes.TypeofFood IS NULL;

4)

CREATE VIEW PetFoodMaybeEat AS

WITH OwnsC AS (

SELECT \*

FROM Owns

)

SELECT Pets.PetID, Pets.Name AS "Pets.Name", Foods.FoodID, Foods.Name AS "Foods.Name", Foods.Brand

FROM Pets

LEFT JOIN OwnsC ON Pets.PetID = OwnsC.PetID

LEFT JOIN Purchases ON OwnsC.OID = Purchases.OID

LEFT JOIN Foods ON Purchases.FoodID = Foods.FoodID

WHERE OwnsC.PetID IS NOT NULL

AND Purchases.OID IS NOT NULL

AND Foods.FoodID IS NOT NULL;

SELECT Pets.PetID, Pets.Name AS "Pets.Name", Foods.FoodID, Foods.Name AS "Foods.Name", Foods.Brand

FROM Pets

LEFT JOIN Owns ON Pets.PetID = Owns.PetID

LEFT JOIN Purchases ON Owns.OID = Purchases.OID

LEFT JOIN Foods ON Purchases.FoodID = Foods.FoodID

WHERE Owns.PetID IS NOT NULL

AND Purchases.OID IS NOT NULL

AND Foods.FoodID IS NOT NULL;

5)

CREATE VIEW HighPricedBrandFood AS

WITH FoodsC AS (

SELECT \*

FROM Foods

)

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

FROM FoodsC f1

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

AND f1.Price < f2.Price

WHERE f2.FoodID IS NULL;