-- 4. Find the total number of animals in each shelter:

SELECT Shelter.Shelter\_Name, COUNT(Animal.Animal\_ID) AS TotalAnimals

FROM Shelter

LEFT JOIN Animal ON Shelter.Shelter\_ID = Animal.Shelter\_ID

GROUP BY Shelter.Shelter\_Name;

-- 6. Identify donors who made multiple donations:

SELECT Donor.Donor\_ID, COUNT(Donation.Donation\_ID) AS NumberOfDonations

FROM Donor

JOIN Donation ON Donor.Donor\_ID = Donation.Donor\_ID

GROUP BY Donor.Donor\_ID

HAVING COUNT(Donation.Donation\_ID) > 1;

-- 9. Find employees who conducted interviews for eligible adopters:

SELECT Employee.Employee\_ID, COUNT(Interview.Interview\_ID) AS NumberOfInterviews

FROM Employee

JOIN Interview ON Employee.Employee\_ID = Interview.Employee\_ID

WHERE Interview.Eligibility = 'Eligible'

GROUP BY Employee.Employee\_ID;

**Additional Queries:**

1. Money donation trend in the last three months

WITH MonthlyDonationTrends AS (

SELECT

YEAR(donation\_time) AS DonationYear,

MONTH(donation\_time) AS DonationMonth,

SUM(donating\_amount) AS MonthlyTotalDonation

FROM Donation

WHERE donation\_time >= DATEADD(MONTH, -3, GETDATE())

GROUP BY YEAR(donation\_time), MONTH(donation\_time)

)

SELECT \* FROM MonthlyDonationTrends;

1. Identify the top 5 shelters with the highest adoption rates and their average donation amounts

WITH ShelterAdoptionRates AS (

SELECT

p.shelter\_id,

s.shelter\_name,

COUNT(DISTINCT ad.adoptor\_id) AS NumberOfAdoptions,

AVG(d.donating\_amount) AS AvgDonationAmount

FROM Adoption ad

JOIN Pets p ON ad.pet\_id = p.pet\_id

JOIN Shelter s ON p.shelter\_id = s.shelter\_id

LEFT JOIN Donation d ON ad.adoptor\_id = d.adoptor\_id

GROUP BY p.shelter\_id, s.shelter\_name

)

SELECT TOP 5 \* FROM ShelterAdoptionRates

ORDER BY NumberOfAdoptions DESC, AvgDonationAmount DESC;

1. List Shelters with Total Donations and Average Donation Amount per Donor:

SELECT

S.shelter\_id,

S.shelter\_name,

COALESCE(SUM(D.donating\_amount), 0) AS total\_donation\_amount,

COALESCE(AVG(D.donating\_amount), 0) AS avg\_donation\_per\_donor

FROM Shelter S

LEFT JOIN Pets P ON S.shelter\_id = P.shelter\_id

LEFT JOIN Adoption A ON P.pet\_id = A.pet\_id

LEFT JOIN Donation D ON A.adoptor\_id = D.adoptor\_id

GROUP BY S.shelter\_id, S.shelter\_name;

1. List Donors with Increasing Donation Amounts:

WITH DonorDonationHistory AS (

SELECT

donor\_information,

donating\_amount,

LAG(donating\_amount) OVER (PARTITION BY donor\_information ORDER BY donation\_time) AS previous\_amount

FROM Donation

)

SELECT DISTINCT

donor\_information

FROM DonorDonationHistory

WHERE previous\_amount IS NOT NULL AND donating\_amount > previous\_amount;

1. Find Adopters with Multiple Eligible Pets:

SELECT

I.adoptor\_id,

COUNT(\*) AS eligible\_pets\_count

FROM Interview I

JOIN Adoption A ON I.adoptor\_id = A.adoptor\_id

WHERE I.eligibility = 'Eligible'

GROUP BY I.adoptor\_id

HAVING COUNT(\*) > 1;

1. List Adopters Eligible for Interview and Their Preferred Shelter:

SELECT

I.adoptor\_id,

I.eligibility,

S.shelter\_id,

S.shelter\_name

FROM Interview I

JOIN Employee E ON I.employee\_id = E.employee\_id

JOIN Shelter S ON E.shelter\_id = S.shelter\_id

WHERE I.eligibility = 'Eligible';

1. List Employees and Their Total PetCare Hours:

SELECT

E.employee\_id,

E.name,

SUM(P.petcare\_hours) AS total\_petcare\_hours

FROM Employee E

JOIN PetCare P ON E.petcare\_id = P.petcare\_id

GROUP BY E.employee\_id, E.name;