**Employee Management System - SQL Exercises**

**Exercise 7: Return Data from a Scalar Function**

Goal: Return the annual salary for a specific employee using `fn\_CalculateAnnualSalary`.

Steps:

1. Execute the `fn\_CalculateAnnualSalary` function for an employee with `EmployeeID = 1`.

2. Verify the result

CREATE TABLE Emp(

EmployeeID INT PRIMARY KEY,

FirstName VARCHAR(50),

LastName VARCHAR(50),

DepartmentID INT FOREIGN KEY REFERENCES Departments(DepartmentID),

Salary DECIMAL(10,2),

JoinDate DATE

);

INSERT INTO Emp (EmployeeID, FirstName, LastName, DepartmentID, Salary, JoinDate) VALUES

(1, 'John', 'Doe', 1, 5000.00, '2020-01-15'),

(2, 'Jane', 'Smith', 2, 6000.00, '2019-03-22'),

(3, 'Bob', 'Johnson', 3, 5500.00, '2021-07-01');

go

CREATE FUNCTION dbo.fn\_CalculateAnnualSalarys

(

@MonthlySalary DECIMAL(10,2)

)

RETURNS DECIMAL(12,2)

AS

BEGIN

RETURN @MonthlySalary \* 12;

END;

GO

SELECT

EmployeeID,

FirstName,

LastName,

Salary AS MonthlySalary,

dbo.fn\_CalculateAnnualSalarys(Salary) AS AnnualSalary

FROM Emp;

SELECT

dbo.fn\_CalculateAnnualSalarys(Salary) AS AnnualSalary

FROM

Emp

WHERE

EmployeeID = 1;

