EXERCISE 4

**Scenario 1: Calculate the age of customers for eligibility checks**

CREATE OR REPLACE FUNCTION CalculateAge(p\_DOB DATE) RETURN NUMBER IS

v\_Age NUMBER;

BEGIN

v\_Age := TRUNC((SYSDATE - p\_DOB) / 365.25);

RETURN v\_Age;

END;

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**Scenario 2: Compute the monthly installment for a loan**

CREATE OR REPLACE FUNCTION CalculateMonthlyInstallment(p\_LoanAmount NUMBER, p\_InterestRate NUMBER, p\_DurationYears NUMBER) RETURN NUMBER IS

v\_MonthlyInstallment NUMBER;

v\_MonthlyRate NUMBER := p\_InterestRate / 12 / 100;

v\_Months NUMBER := p\_DurationYears \* 12;

BEGIN

v\_MonthlyInstallment := p\_LoanAmount \* v\_MonthlyRate / (1 - POWER(1 + v\_MonthlyRate, -v\_Months));

RETURN v\_MonthlyInstallment;

END;

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**Scenario 3: Check if a customer has sufficient balance before making a transaction**

CREATE OR REPLACE FUNCTION HasSufficientBalance(p\_AccountID NUMBER, p\_Amount NUMBER) RETURN BOOLEAN IS

v\_Balance NUMBER;

BEGIN

SELECT Balance INTO v\_Balance FROM Accounts WHERE AccountID = p\_AccountID;

RETURN v\_Balance >= p\_Amount;

END;

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