**Exercise 4: Functions**

**-- Scenario 1**

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

BEGIN

RETURN TRUNC(MONTHS\_BETWEEN(SYSDATE, p\_DOB)/12);

END;

/

**-- Scenario 2**

CREATE OR REPLACE FUNCTION CalculateMonthlyInstallment(p\_LoanAmt NUMBER, p\_Rate NUMBER, p\_Years NUMBER) RETURN NUMBER IS

v\_MonthlyRate NUMBER := p\_Rate / (12 \* 100);

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

BEGIN

RETURN ROUND(p\_LoanAmt \* v\_MonthlyRate / (1 - POWER(1 + v\_MonthlyRate, -v\_Months)), 2);

END;

/

**-- Scenario 3**

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;

/