Scenario 1: Calculate the age of customers

CREATE OR REPLACE FUNCTION CalculateAge(

p\_date\_of\_birth DATE

) RETURN NUMBER AS

v\_age NUMBER;

BEGIN

SELECT FLOOR(MONTHS\_BETWEEN(CURRENT\_DATE, p\_date\_of\_birth) / 12) INTO v\_age FROM dual;

RETURN v\_age;

END CalculateAge;

Scenario 2: Calculate the monthly installment for a loan

CREATE OR REPLACE FUNCTION CalculateMonthlyInstallment(

p\_loan\_amount NUMBER,

p\_interest\_rate NUMBER,

p\_loan\_duration NUMBER

) RETURN NUMBER AS

v\_monthly\_interest\_rate NUMBER := p\_interest\_rate / 12 / 100;

v\_number\_of\_payments NUMBER := p\_loan\_duration \* 12;

v\_monthly\_payment NUMBER;

BEGIN

v\_monthly\_payment := (p\_loan\_amount \* v\_monthly\_interest\_rate \* POWER(1 + v\_monthly\_interest\_rate, v\_number\_of\_payments)) / (POWER(1 + v\_monthly\_interest\_rate, v\_number\_of\_payments) - 1);

RETURN v\_monthly\_payment;

END CalculateMonthlyInstallment;

Scenario 3: Check if a customer has sufficient balance

CREATE OR REPLACE FUNCTION HasSufficientBalance(

p\_account\_id NUMBER,

p\_amount NUMBER

) RETURN BOOLEAN AS

v\_balance NUMBER;

BEGIN

SELECT balance INTO v\_balance FROM accounts WHERE account\_id = p\_account\_id;

RETURN v\_balance >= p\_amount;

END HasSufficientBalance;