Scenario 1: Calculate Age

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: Calculate Monthly Installment

CREATE OR REPLACE FUNCTION CalculateMonthlyInstallment (

p\_loan\_amount NUMBER,

p\_interest\_rate NUMBER,

p\_loan\_duration NUMBER

)

RETURN NUMBER

IS

v\_monthly\_interest\_rate NUMBER;

v\_num\_payments NUMBER;

v\_installment NUMBER;

BEGIN

v\_monthly\_interest\_rate := p\_interest\_rate / 1200;

v\_num\_payments := p\_loan\_duration \* 12;

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

RETURN v\_installment;

END;

/

Scenario 3: Check Sufficient Balance

CREATE OR REPLACE FUNCTION HasSufficientBalance (

p\_account\_id NUMBER,

p\_amount NUMBER

)

RETURN BOOLEAN

IS

v\_balance NUMBER;

BEGIN

SELECT Balance INTO v\_balance FROM Accounts WHERE AccountID = p\_account\_id;

RETURN v\_balance >= p\_amount;

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

RETURN FALSE;

END;

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