**Scenario 1: Calculate the Age of Customers for Eligibility Checks**

This function CalculateAge will take a customer's date of birth as input and return their age in years.

CREATE OR REPLACE FUNCTION CalculateAge(p\_date\_of\_birth DATE) RETURN NUMBER IS

v\_age NUMBER;

BEGIN

v\_age := FLOOR(MONTHS\_BETWEEN(SYSDATE, p\_date\_of\_birth) / 12);

RETURN v\_age;

END CalculateAge;

/

**Scenario 2: Compute the Monthly Installment for a Loan**

This function CalculateMonthlyInstallment will take the loan amount, interest rate, and loan duration in years as input and return the monthly installment amount.

CREATE OR REPLACE FUNCTION CalculateMonthlyInstallment(

p\_loan\_amount NUMBER,

p\_annual\_interest\_rate NUMBER,

p\_loan\_duration\_years NUMBER

) RETURN NUMBER IS

v\_monthly\_interest\_rate NUMBER;

v\_number\_of\_payments NUMBER;

v\_monthly\_installment NUMBER;

BEGIN

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

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

v\_monthly\_installment := (p\_loan\_amount \* v\_monthly\_interest\_rate) /

(1 - POWER(1 + v\_monthly\_interest\_rate, -v\_number\_of\_payments));

RETURN v\_monthly\_installment;

END CalculateMonthlyInstallment;

/

**Scenario 3: Check if a Customer Has Sufficient Balance Before Making a Transaction**

This function HasSufficientBalance will take an account ID and an amount as input and return a boolean indicating whether the account has at least the specified amount.

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 account\_id = p\_account\_id;

IF v\_balance >= p\_amount THEN

RETURN TRUE;

ELSE

RETURN FALSE;

END IF;

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

RETURN FALSE;

WHEN OTHERS THEN

RAISE;

END HasSufficientBalance;

/

**Summary**

* **Scenario 1**: CalculateAge calculates the age of a customer given their date of birth.
* **Scenario 2**: CalculateMonthlyInstallment computes the monthly installment for a loan based on the loan amount, interest rate, and duration.
* **Scenario 3**: HasSufficientBalance checks if an account has sufficient balance for a transaction and returns a boolean result.