**Question – 1**

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

o Question: Write a function CalculateAge that takes a customer's date of birth as input and returns their age in years.

PL/SQL Code –

CREATE OR REPLACE FUNCTION CalculateAge (

p\_DOB IN DATE

) RETURN NUMBER

IS

v\_Age NUMBER;

BEGIN

-- Calculate age by subtracting the year of birth from the current year

v\_Age := TRUNC(MONTHS\_BETWEEN(SYSDATE, p\_DOB) / 12);

RETURN v\_Age;

EXCEPTION

WHEN OTHERS THEN

DBMS\_OUTPUT.PUT\_LINE('Error: ' || SQLERRM);

RETURN NULL;

END CalculateAge;

/

SET SERVEROUT ON;

DECLARE

CURSOR cust\_cursor IS

SELECT CustomerID, Name, DOB

FROM Customers;

v\_CustomerID Customers.CustomerID%TYPE;

v\_Name Customers.Name%TYPE;

v\_DOB Customers.DOB%TYPE;

v\_Age NUMBER;

BEGIN

-- Open the cursor

OPEN cust\_cursor;

-- Loop through each customer

LOOP

FETCH cust\_cursor INTO v\_CustomerID, v\_Name, v\_DOB;

EXIT WHEN cust\_cursor%NOTFOUND;

-- Calculate age using the function

v\_Age := CalculateAge(v\_DOB);

-- Display customer details and calculated age

DBMS\_OUTPUT.PUT\_LINE('|| Customer ID: ' || v\_CustomerID || ',|| Name: ' || v\_Name || ',|| DOB: ' || TO\_CHAR(v\_DOB, 'YYYY-MM-DD') || ',|| Age: ' || v\_Age||' ||');

END LOOP;

-- Close the cursor

CLOSE cust\_cursor;

END;

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