**Exercise 4: Functions**

**Scenario 1:**

**CODE:**

***-- Creating Customers Table***

CREATE TABLE Customers (

CustomerID NUMBER PRIMARY KEY,

Name VARCHAR2(100),

DOB DATE,

Balance NUMBER,

LastModified DATE

);

***-- Inserting Values into Customers Table***

BEGIN

INSERT INTO Customers VALUES (1, 'Alice Reddy', TO\_DATE('1950-05-10', 'YYYY-MM-DD'), 12000, SYSDATE);

INSERT INTO Customers VALUES (2, 'Bob Singh', TO\_DATE('1990-08-21', 'YYYY-MM-DD'), 8000, SYSDATE);

INSERT INTO Customers VALUES (3, 'Carol Mehta', TO\_DATE('1962-01-15', 'YYYY-MM-DD'), 15000, SYSDATE );

INSERT INTO Customers VALUES (4, 'David Rao', TO\_DATE('1985-12-01', 'YYYY-MM-DD'), 9500, SYSDATE);

INSERT INTO Customers VALUES (5, 'Esha Iyer', TO\_DATE('1945-03-25', 'YYYY-MM-DD'), 20000, SYSDATE);

END;

***-- Creating a function FindAge to return the age (in years) of a customer based on CustomerID***

CREATE OR REPLACE FUNCTION FindAge(

customer\_id NUMBER

)

RETURN NUMBER

AS

dateOfBirth DATE;

Age NUMBER;

BEGIN

SELECT DOB INTO dateOfBirth

FROM Customers

WHERE CustomerID=customer\_id;

Age:=FLOOR(MONTHS\_BETWEEN(SYSDATE,dateOfBirth)/12);

RETURN Age;

END;

/

***-- testing the function FindAge for customer with ID 1***

DECLARE

resultAge NUMBER;

BEGIN

resultAge:=FindAge(1);

DBMS\_OUTPUT.PUT\_LINE('Age of CustomerID-1: ' || resultAge||' years.');

END;

/

**OUTPUT:**

**(in the next page)**

