**Exercise 2: Error Handling**

**Scenario 2:**

**Code:** (Respected Sir/Mam, I have added few comment lines for readability)

***-- Creating Employees Table***

CREATE TABLE Employees (

EmployeeID NUMBER PRIMARY KEY,

Name VARCHAR2(100),

Position VARCHAR2(50),

Salary NUMBER,

Department VARCHAR2(50),

HireDate DATE

);

***-- Inserting Values into Employees Table***

BEGIN

INSERT INTO Employees (EmployeeID, Name, Position, Salary, Department, HireDate) VALUES (1, 'Alice Johnson', 'Manager', 70000, 'HR', TO\_DATE('2015-06-15', 'YYYY-MM-DD'));

INSERT INTO Employees (EmployeeID, Name, Position, Salary, Department, HireDate) VALUES (2, 'Bob Brown', 'Developer', 60000, 'IT', TO\_DATE('2017-03-20', 'YYYY-MM-DD'));

INSERT INTO Employees (EmployeeID, Name, Position, Salary, Department, HireDate) VALUES (3, 'Charlie Davis', 'Analyst', 50000, 'Finance', TO\_DATE('2018-11-10', 'YYYY-MM-DD'));

INSERT INTO Employees (EmployeeID, Name, Position, Salary, Department, HireDate) VALUES (4, 'Diana Wilson', 'Team Lead', 65000, 'IT', TO\_DATE('2016-09-05', 'YYYY-MM-DD'));

INSERT INTO Employees (EmployeeID, Name, Position, Salary, Department, HireDate) VALUES (5, 'Edward Thomas', 'HR Executive', 48000, 'HR', TO\_DATE('2019-01-25', 'YYYY-MM-DD'));

END;

***-- Creating a procedure to update salary by a given percentage***

CREATE OR REPLACE PROCEDURE UpdateSalary(

emp\_ID IN NUMBER,

salary\_percent IN NUMBER

)

AS

current\_salary NUMBER;

BEGIN

***-- Fetching the employee's salary using Employee ID***

SELECT Salary INTO current\_salary

FROM Employees

WHERE EmployeeID=emp\_ID;

***-- Applying the percentage increase***

UPDATE Employees

SET Salary=Salary+(Salary\*salary\_percent/100)

WHERE EmployeeID=emp\_ID;

DBMS\_OUTPUT.PUT\_LINE('Salary updated for EmployeeID ' || emp\_ID ||'. New Salary: $' || (current\_salary + (current\_salary \* salary\_percent/100)) || CHR(10));

***-- Handles the case where the employee ID does not exist***

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

DBMS\_OUTPUT.PUT\_LINE('Error: No employee found with EmployeeID ' || emp\_ID || CHR(10));

WHEN OTHERS THEN

DBMS\_OUTPUT.PUT\_LINE('Unexpected Error: ' || SQLERRM || CHR(10));

END;

BEGIN

***-- Case 1: Successful update (EmployeeID 2 exists)***

UpdateSalary(2,10);

***-- Case 2: Failure (EmployeeID 50 does not exist)***

UpdateSalary(50,15);

END;

**OUTPUT:**

A screenshot of a computer

AI-generated content may be incorrect.