

Exp11**PL/SQL PROGRAMS**

```
1 DECLARE
    v_emp_id    NUMBER := 110;
    v_salary    EMPLOYEES.SALARY%TYPE;
    v_incentive NUMBER;

BEGIN
    SELECT SALARY INTO v_salary
    FROM EMPLOYEES
    WHERE EMPLOYEE_ID = v_emp_id;

    v_incentive := v_salary * 0.10;

    DBMS_OUTPUT.PUT_LINE('Employee ID: ' || v_emp_id);
    DBMS_OUTPUT.PUT_LINE('Salary: ' || v_salary);
    DBMS_OUTPUT.PUT_LINE('Incentive (10%): ' || v_incentive);

EXCEPTION
    WHEN NO_DATA_FOUND THEN
        DBMS_OUTPUT.PUT_LINE('Employee with ID ' || v_emp_id || ' not found.');
END;
/

2 DECLARE
    "MyVar" NUMBER := 10; -- quoted identifier (case-sensitive)
    myvar  NUMBER := 20; -- unquoted identifier (case-insensitive)

BEGIN
    DBMS_OUTPUT.PUT_LINE("MyVar"); -- valid
    DBMS_OUTPUT.PUT_LINE(MyVar); -- invalid case-insensitive reference to quoted identifier

EXCEPTION
    WHEN OTHERS THEN
        DBMS_OUTPUT.PUT_LINE('Error: Invalid case-insensitive reference to quoted identifier.');

END;
/

3 DECLARE
```

```

v_emp_id NUMBER := 122;
v_salary EMPLOYEES.SALARY%TYPE;

BEGIN
    SELECT SALARY INTO v_salary
    FROM EMPLOYEES
    WHERE EMPLOYEE_ID = v_emp_id;

    v_salary := v_salary * 1.15; -- increase by 15%

    UPDATE EMPLOYEES
    SET SALARY = v_salary
    WHERE EMPLOYEE_ID = v_emp_id;

    DBMS_OUTPUT.PUT_LINE('Salary updated successfully for employee ' || v_emp_id);
    DBMS_OUTPUT.PUT_LINE('New Salary: ' || v_salary);

    COMMIT;

EXCEPTION
    WHEN NO_DATA_FOUND THEN
        DBMS_OUTPUT.PUT_LINE('Employee with ID ' || v_emp_id || ' not found.');
END;
/

4 CREATE OR REPLACE PROCEDURE check_nulls IS
    v_value1 NUMBER := NULL;
    v_value2 NUMBER := 10;

BEGIN
    IF v_value1 IS NULL AND v_value2 IS NOT NULL THEN
        DBMS_OUTPUT.PUT_LINE('Condition is TRUE because v_value1 IS NULL and v_value2 IS NOT NULL.');
    ELSE
        DBMS_OUTPUT.PUT_LINE('Condition is FALSE.');
    END IF;
END;

```

/

-- Execute the procedure

BEGIN

 check_nulls;

END;

/

5 DECLARE

 v_name EMPLOYEES.LAST_NAME%TYPE;

BEGIN

 DBMS_OUTPUT.PUT_LINE('Employees whose last name starts with "S":');

 FOR rec IN (

 SELECT LAST_NAME FROM EMPLOYEES

 WHERE LAST_NAME LIKE 'S%'

) LOOP

 DBMS_OUTPUT.PUT_LINE(rec.LAST_NAME);

 END LOOP;

 DBMS_OUTPUT.PUT_LINE(CHR(10) || 'Employees whose last name contains "_" character:');

 FOR rec IN (

 SELECT LAST_NAME FROM EMPLOYEES

 WHERE LAST_NAME LIKE '%_%' ESCAPE '\'

) LOOP

 DBMS_OUTPUT.PUT_LINE(rec.LAST_NAME);

 END LOOP;

END;

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