

## 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;
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```
-- Execute the procedure
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```
BEGIN
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```
    check_nulls;
```

```
END;
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/
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```
5 DECLARE
```

```
    v_name EMPLOYEES.LAST_NAME%TYPE;
```

```
BEGIN
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```
    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;
```

```
/
```