**PL/SQL:**

**1.**

DECLARE

v\_grade NUMBER;

v\_losal NUMBER;

v\_hisal NUMBER;

CURSOR c\_salgrade IS

SELECT grade, losal, hisal FROM salgrade;

BEGIN

OPEN c\_salgrade;

LOOP

FETCH c\_salgrade INTO v\_grade, v\_losal, v\_hisal;

EXIT WHEN c\_salgrade%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE('Grade: ' || v\_grade ||', Min Salary: ' || v\_losal || ', Max Salary: ' || v\_hisal);

END LOOP;

CLOSE c\_salgrade;

END;

**2.**

DECLARE

v\_emp\_no NUMBER := 7654;

v\_emp\_rec emp%ROWTYPE;

BEGIN

SELECT \* INTO v\_emp\_rec

FROM emp

WHERE empno = v\_emp\_no;

DBMS\_OUTPUT.PUT\_LINE('Employee ID: ' || v\_emp\_rec.empno ||

', Name: ' || v\_emp\_rec.ename ||

', Job: ' || v\_emp\_rec.job ||

', Hire Date: ' || v\_emp\_rec.hiredate

);

END;

**3.**

DECLARE

CURSOR salgrade\_cursor IS

SELECT \* FROM salgrade;

grade NUMBER;

losal NUMBER;

hisal NUMBER;

BEGIN

OPEN salgrade\_cursor;

LOOP

FETCH salgrade\_cursor INTO grade, losal, hisal;

EXIT WHEN salgrade\_cursor%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE('Grade: ' || grade || ', Low Salary: ' || losal || ', High Salary: ' || hisal);

END LOOP;

CLOSE salgrade\_cursor;

END;

**4.**

CREATE OR REPLACE PACKAGE grade\_package AS

PROCEDURE display\_grade(losal\_in IN NUMBER, hisal\_in IN NUMBER);

END grade\_package;

/

CREATE OR REPLACE PACKAGE BODY grade\_package AS

PROCEDURE display\_grade(losal\_in IN NUMBER, hisal\_in IN NUMBER) IS

grade\_val NUMBER;

BEGIN

SELECT grade INTO grade\_val

FROM salgrade

WHERE losal = losal\_in AND hisal = hisal\_in;

DBMS\_OUTPUT.PUT\_LINE('Grade for Low Salary ' || losal\_in || ' and High Salary ' || hisal\_in || ' is: ' || grade\_val);

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

DBMS\_OUTPUT.PUT\_LINE('No matching grade found for provided salary range.');

END display\_grade;

END grade\_package;