SET 4

EMP Table:

Create Table EMP(

empno int Primary key,

empnm varchar2(25),

empadd varchar2(50),

salary int,

date\_birth date,

joindt date,

deptno int

);

JOB Table:

Create Table JOB(

jobid int Primary key,

type\_of\_job varchar2(20),

status varchar2(10)

);

ITEMS Table:

Create Table ITEMS(

itemno int Primary Key,

name varchar2(20),

color varchar2(15),

weight varchar2(25)

);

WORKER Table:

Create Table WORKER(

workerid int Primary key,

name varchar2(25),

wage\_per\_hour varchar2(25),

specialized\_in varchar2(25),

manager\_id int

);

1. Write a PLSQL block which will print Employee list (Empno and Name) EMP (empno, empnm, empadd, salary, date\_birth, joindt, deptno)

DECLARE

CURSOR emp\_cursor IS

SELECT empno, empnm FROM EMP;

v\_empno EMP.empno%TYPE;

v\_empnm EMP.empnm%TYPE;

BEGIN

OPEN emp\_cursor;

LOOP

FETCH emp\_cursor INTO v\_empno, v\_empnm;

EXIT WHEN emp\_cursor%NOTFOUND;

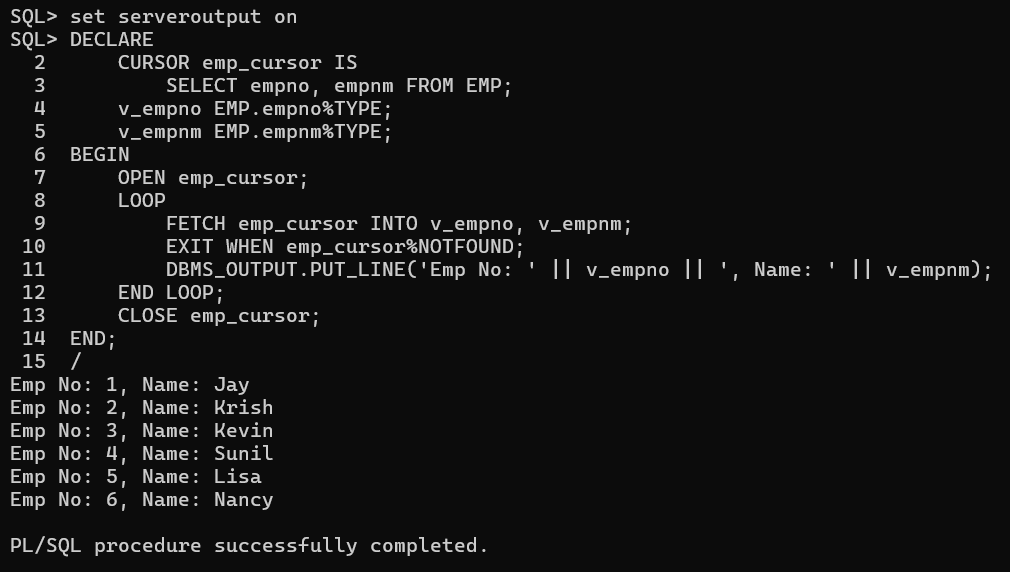
DBMS\_OUTPUT.PUT\_LINE('Emp No: ' || v\_empno || ', Name: ' || v\_empnm);

END LOOP;

CLOSE emp\_cursor;

END;

/



2. Write a function that returns total number of incomplete jobs, using table JOB (jobid, type\_of\_job, status)

**Function Declaration:**

CREATE OR REPLACE FUNCTION get\_incomplete\_job\_count

RETURN NUMBER

IS

v\_count NUMBER;

BEGIN

SELECT COUNT(\*) INTO v\_count FROM JOB

WHERE status = 'Incomplete';

RETURN v\_count;

END;

/

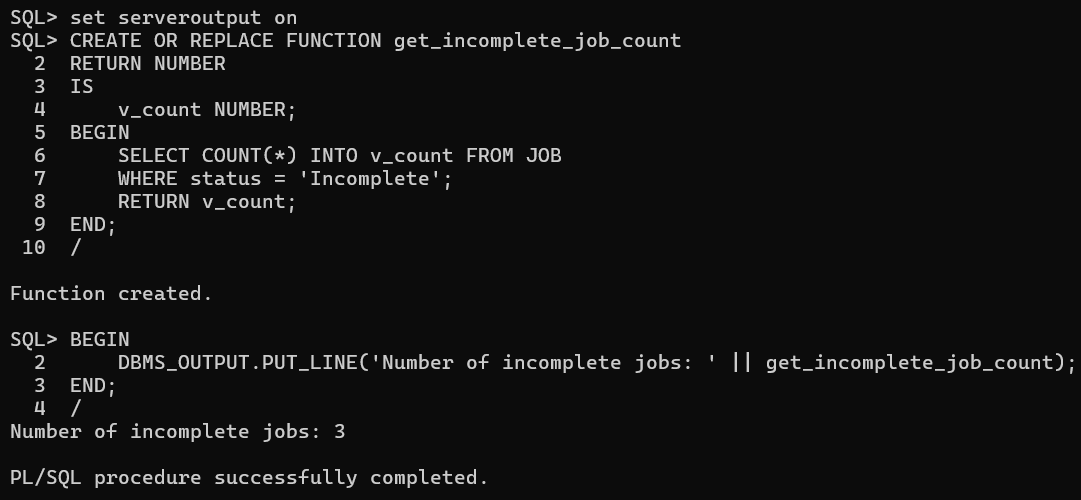
**Function Call :**

BEGIN

DBMS\_OUTPUT.PUT\_LINE('Number of incomplete jobs: ' || get\_incomplete\_job\_count);

END;

/



3. Write a function which displays the number of items whose weight fall between a given ranges for a particular color using table ITEM (itemno, name, color, weight)

**Function Declaration:**

CREATE OR REPLACE FUNCTION get\_item\_count(p\_color VARCHAR2, p\_min\_weight VARCHAR2, p\_max\_weight VARCHAR2)

RETURN NUMBER

IS

v\_count NUMBER;

BEGIN

SELECT COUNT(\*) INTO v\_count

FROM ITEMS

WHERE color = p\_color

AND weight BETWEEN p\_min\_weight AND p\_max\_weight;

RETURN v\_count;

END;

/

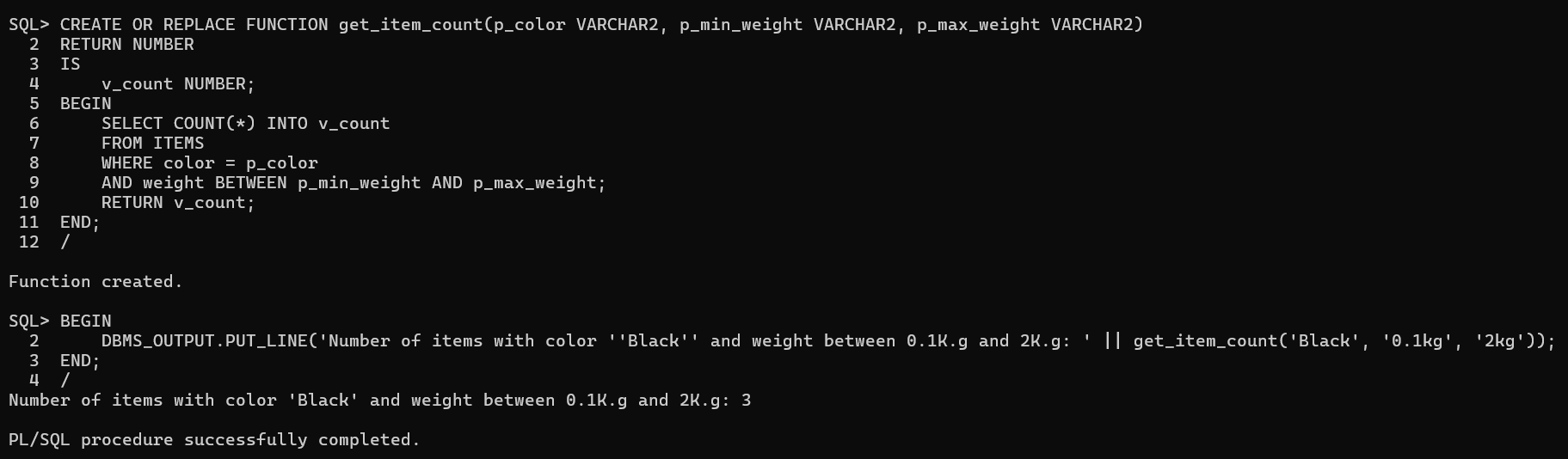
**Function Call:**

BEGIN

DBMS\_OUTPUT.PUT\_LINE('Number of items with color ''Black'' and weight between 0.1K.g and 2K.g: ' || get\_item\_count('Black', '0.1kg', '2kg'));

END;

/



4. Write a procedure to display top five highest paid workers who are specialized in “PAINTING" using table WORKER (workerid, name, wage\_per\_hour, specialized\_in, manager\_id)

**Declaration:**

CREATE OR REPLACE PROCEDURE display\_painters IS

CURSOR painting\_cursor IS

SELECT workerid, name, wage\_per\_hour

FROM WORKER

WHERE specialized\_in = 'Painting'

ORDER BY wage\_per\_hour DESC;

v\_workerid WORKER.workerid%TYPE;

v\_name WORKER.name%TYPE;

v\_wage\_per\_hour WORKER.wage\_per\_hour%TYPE;

BEGIN

OPEN painting\_cursor;

LOOP

FETCH painting\_cursor INTO v\_workerid, v\_name, v\_wage\_per\_hour;

EXIT WHEN painting\_cursor%ROWCOUNT > 5 OR painting\_cursor%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE('Worker ID: ' || v\_workerid || ', Name: ' || v\_name || ', Wage per Hour: ' || v\_wage\_per\_hour);

END LOOP;

CLOSE painting\_cursor;

END;

/

**Run Script:**

BEGIN

display\_painters;

END;

/

