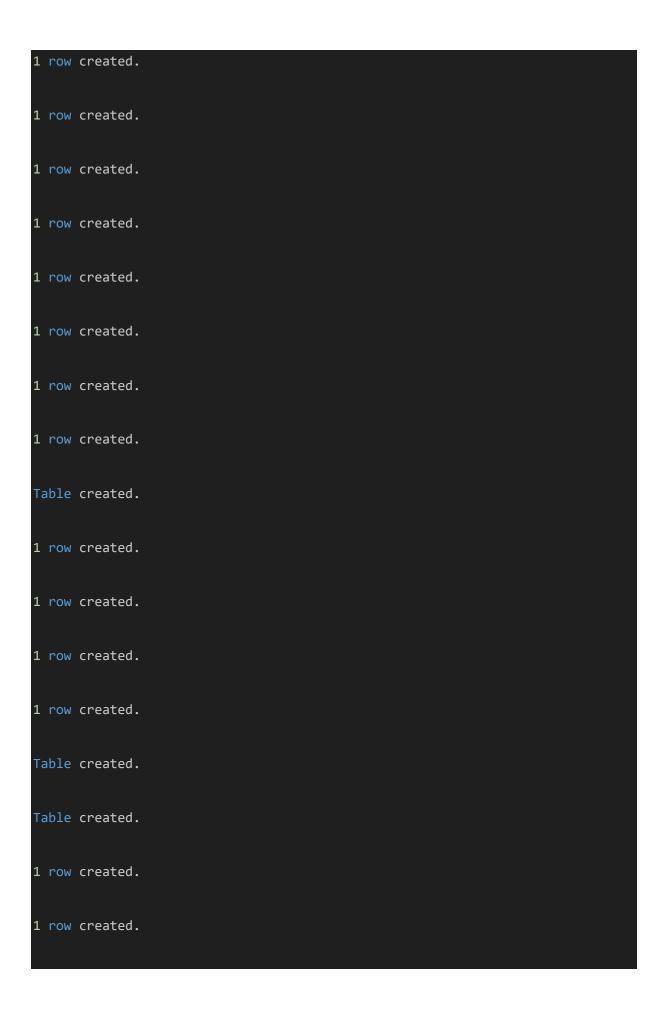
DBMS LAB PRACTICAL-7

NAME: VEDANT BHUTADA

BATCH: A4 ROLL NO: 69

AIM: Aim: To write and execute stored procedures and functions using Oracle 11g.

<pre>SQL> @"C:\Users\vedan\OneDrive\Desktop\sql\script_scott_schema.sql"</pre>
Building demonstration tables. Please wait.
Table dropped.
Table dropped.
Table di Opped.
Table dropped.
Table deserved
Table dropped.
Table dropped.
Table created.
Table Created.
1 row created.
1 row created.
i row createu.
1 row created.
1 row created.
i Pow Createu.
1 row created.
1 row created.
T Tow Created.



```
1 row created.
1 row created.
1 row created.
Table created.
1 row created.
Commit complete.
Demonstration table build is complete.
SQL> select*from emp;
SQL> set linesize 300;
SQL> select * from emp;
EMPNO ENAME JOB MGR
HIREDATE SAL COMM DEPTNO
7369 SMITH CLERK 7902 17-DEC-
80 800 20
    7499 ALLEN SALESMAN 7698 20-FEB-
1600 300 30
81
    7521 WARD SALESMAN 7698 22-FEB-
      1250 500 30
81
```

	7566 JONES	MANAGER		7839	02-APR-		
81	2975		20	, 033	02 /		
01	2373		20				
	7654 MARTIN	CALECMAN		7600	20 CED		
01	1250 :			7096	20-3EF-		
81	1230 .	1400	שכ				
	7600 BLAKE	MANAGER		7020	04 MAY		
0.1	7698 BLAKE	MANAGER		/839	OI-MAY-		
81	2850		30				
	==00 CL 151/			=000	00 71111		
	7782 CLARK	MANAGER		/839	09-JUN-		
81	2450		10				
	7788 SCOTT	ANALYST		7566	09-DEC-		
82	3000		20				
	7839 KING	PRESIDENT			17-NOV-		
81	5000		10				
	7844 TURNER			7698	08-SEP-		
81	1500	0	30				
	7876 ADAMS	CLERK		7788	12-JAN-		
83	1100		20				
	EMPNO ENAME			MGR			
HIRE	DATE SAL	COMM	D	EPTNO			

```
7900 JAMES
                     CLERK
                                    7698 03-DEC-
81
         950
                                30
     7902 FORD
                    ANALYST
                                     7566 03-DEC-
81
         3000
                                20
     7934 MILLER CLERK
                                     7782 23-JAN-
82
        1300
                                10
14 rows selected.
SQL> --procedures
SQL> --1
SQL> CREATE OR REPLACE PROCEDURE hello_world_proc AS
      DBMS_OUTPUT.PUT_LINE('Hello World!');
 4 END;
Procedure created.
SQL> EXEC hello_world_proc;
PL/SQL procedure successfully completed.
SQL> set serveroutput on;
SQL> EXEC hello_world_proc;
Hello
World!
PL/SQL procedure successfully completed.
SQL> --2
SQL> CREATE OR REPLACE PROCEDURE get_employee_info_proc(p_empno IN NUMBER) AS
 v ename VARCHAR2(50);
```

```
NUMBER;
      v_sal
 4
      v_job
              VARCHAR2(50);
  5 BEGIN
      SELECT ename, sal, job
      INTO v ename, v sal, v job
      FROM emp
      WHERE empno = p_empno;
 9
 10
      DBMS_OUTPUT.PUT_LINE('Employee Name: ' || v_ename || ', Salary: ' ||
 11
v_sal || ', Job: ' || v_job);
 12 END;
13 /
Procedure created.
SQL> EXEC get_employee_info_proc(7369);
Employee Name: SMITH, Salary: 800, Job:
CLERK
PL/SQL procedure successfully completed.
SQL> --3
SQL> CREATE OR REPLACE PROCEDURE get_employees_in_dept_proc(p_deptno IN
NUMBER) AS
  2 BEGIN
      FOR emp_rec IN (SELECT ename FROM emp WHERE deptno = p_deptno) LOOP
        DBMS_OUTPUT.PUT_LINE('Employee Name: ' || emp_rec.ename);
     END LOOP;
 6 END;
Procedure created.
SQL> EXEC get_employees_in_dept_proc(20);
Employee Name:
SMITH
Employee Name:
JONES
```

```
Employee Name:
SCOTT
Employee Name:
ADAMS
Employee Name:
FORD
PL/SQL procedure successfully completed.
SQL> CREATE OR REPLACE PROCEDURE update_salary_proc(p_empno IN NUMBER,
p_sal_increment IN NUMBER) AS
 2 BEGIN
  3 UPDATE emp
     SET sal = sal + p_sal_increment
 5 WHERE empno = p_empno;
 6
 7 COMMIT;
 8 END;
Procedure created.
SQL> EXEC update_salary_proc(7369, 1000);
PL/SQL procedure successfully completed.
SQL> select*from emp;
    EMPNO ENAME JOB
                                    MGR
HIREDATE SAL COMM DEPTNO
```

	7369 SMITH	CLERK		7902 17-DEC-	
80	1800		20		
		SALESMAN		7698 20-FEB-	
81	1600	300	30		
	7524 1400	CALECMAN		7600 22 550	
81		SALESMAN 500		/698 22-FEB-	
ο1	1230	300	שכ		
	7566 JONES	MANAGER		7839 02-APR-	
81	2975		20		
		SALESMAN		7698 28-SEP-	
81	1250	1400	30		
	7698 BLAKE	MANACED		7839 01-MAY-	
81	2850	MANAGEN	30	7639 01-MAT-	
01	2030		50		
	7782 CLARK	MANAGER		7839 09-JUN-	
81	2450		10		
	7700 550==	ANAL) (CT		7566 00 056	
0.2	7788 SCOTT	ANALYST	20	7566 09-DEC-	
82	3000		20		
	7839 KING	PRESIDENT		17-NOV-	
81	5000		10		
	7844 TURNER	SALESMAN		7698 08-SEP-	
81	1500	0	30		

```
7876 ADAMS CLERK 7788 12-JAN-
83
     1100
                          20
   EMPNO ENAME JOB
                             MGR
HIREDATE SAL COMM DEPTNO
   7900 JAMES CLERK 7698 03-DEC-
                         30
81
     950
    7902 FORD ANALYST 7566 03-DEC-
81
                         20
     3000
   7934 MILLER CLERK 7782 23-JAN-
82
     1300
                         10
14 rows selected.
SQL> --Functions
SQL> --1
SQL> CREATE OR REPLACE FUNCTION welcome_message_func(p_name IN VARCHAR2)
RETURN VARCHAR2 AS
 3 RETURN 'Welcome Mr./Ms. ' || p_name;
 4 END;
Function created.
SQL> SELECT welcome_message_func('SMITH') FROM dual;
```

```
WELCOME_MESSAGE_FUNC('SMITH')
Welcome Mr./Ms.
SMITH
SQL> --2
SQL> CREATE OR REPLACE FUNCTION calculate_age_func(p_dob IN DATE) RETURN
NUMBER AS
 2 BEGIN
 3 RETURN TRUNC(MONTHS_BETWEEN(SYSDATE, p_dob) / 12);
 4 END;
Function created.
SQL> SELECT calculate_age_func(TO_DATE('1990-01-01', 'YYYY-MM-DD')) FROM dual;
CALCULATE_AGE_FUNC(TO_DATE('1990-01-01','YYYY-MM-
DD'))
                                                   33
SQL> CREATE OR REPLACE FUNCTION count_employees_in_dept_func(p_deptno IN
NUMBER) RETURN NUMBER AS
 2 BEGIN
 3 DECLARE
 4
        v_count NUMBER;
     BEGIN
```

```
SELECT COUNT(*)
  6
        INTO v_count
 8
        FROM emp
        WHERE deptno = p_deptno;
 10
 11
        RETURN v_count;
 12
     END;
 13 END;
 14 /
Function created.
SQL> --3
SQL> SELECT count_employees_in_dept_func(20) FROM dual;
COUNT_EMPLOYEES_IN_DEPT_FUNC(20)
SQL> CREATE OR REPLACE FUNCTION get_department_name_func(p_deptno IN NUMBER)
RETURN VARCHAR2 AS
 2 BEGIN
     DECLARE
       v_dept_name VARCHAR2(50);
 5 BEGIN
       SELECT dname
       INTO v_dept_name
 8
       FROM dept
 9
       WHERE deptno = p_deptno;
 10
 11
        RETURN v_dept_name;
     END;
 12
 13 END;
 14 /
Function created.
```

SQL> SELECT get_department_name_func(20) FROM dual;
GET_DEPARTMENT_NAME_FUNC(20)
RESEARCH
SQL> commit;
Commit complete.
SQL> spool off;