**6.A PL/SQL – using DEFAULT**

**//PL/SQL code to UPDATE salary of employee NUMBER is ‘7788’ to 3050 IF salary**

**is less than or equal to 3000.**

SQL> create table temp1 as select \* from emp;

Table created.

SQL> select \* from emp where empno=7788;

EMPNO ENAME JOB MGR HIREDATE SAL

---------- -------------------- ---------- ---------- --------- ----------

COMM DEPTNO

---------- ----------

7788 scott analyst 7566 09-DEC-82 3000

20

SQL> ed

Wrote file afiedt.buf

1 DECLARE

2 x NUMBER(9,2);

3 BEGIN

4 SELECT sal INTO x FROM emp WHERE empno = 7788;

5 IF x<= 3000 THEN

6 UPDATE emp SET sal = 3050 WHERE empno = 7788;

7 END IF;

8 dbms\_output.put\_line('UPDATE is done sucessfully');

9\* END;

10 /

PL/SQL procedure successfully completed.

SQL> select \* from emp where empno=7788;

EMPNO ENAME JOB MGR HIREDATE SAL

---------- -------------------- ---------- ---------- --------- ----------

COMM DEPTNO

---------- ----------

7788 scott analyst 7566 09-DEC-82 3050

20

**6.B PL/SQL using %ROWTYPE**

**//PL/SQL code to INSERT all the details of employee no 7698 to new table temp1**

**which has same structure as emp table**

SQL> delete temp1;

14 rows deleted.

SQL> desc temp1;

Name Null? Type

----------------------------------------- -------- ----------------------------

EMPNO NUMBER(4)

ENAME VARCHAR2(20)

JOB VARCHAR2(10)

MGR NUMBER(4)

HIREDATE DATE

SAL NUMBER(9,2)

COMM NUMBER(7,2)

DEPTNO NUMBER(2)

SQL> ed

Wrote file afiedt.buf

1 DECLARE

2 nr emp%ROWTYPE;

3 BEGIN

4 SELECT \* INTO nr FROM emp WHERE empno=7698;

5 INSERT INTO temp1 VALUES (nr.empno, nr.ename, nr.job, nr.mgr,

6 nr.hiredate, nr.sal,nr.comm,nr.deptno);

7 dbms\_output.put\_line(' INSERT completed succefully');

8\* END;

9 /

PL/SQL procedure successfully completed.

SQL> select \* from temp1;

EMPNO ENAME JOB MGR HIREDATE SAL

---------- -------------------- ---------- ---------- --------- ----------

COMM DEPTNO

---------- ----------

7698 blake manager 7839 01-MAY-81 2850

30

**6.C PL/SQL – using %TYPE**

**// UPDATE the commission of the employee NUMBER 7369 to Rs.300, IF it is**

**NULL ELSE raise his commission by 25 %.**

SQL> select \* from emp where empno=7369;

EMPNO ENAME JOB MGR HIREDATE SAL

---------- -------------------- ---------- ---------- --------- ----------

COMM DEPTNO

---------- ----------

7369 smith clerk 7902 17-DEC-80 800

20

SQL> ed

Wrote file afiedt.buf

1 DECLARE

2 eno NUMBER(4) := 7369;

3 com emp.comm%TYPE;

4 BEGIN

5 SELECT comm INTO com FROM emp WHERE empno = eno;

6 IF com IS NULL THEN

7 UPDATE emp SET comm =300 WHERE empno=eno;

8 ELSE

9 com :=com+com\*0.25;

10 UPDATE emp SET comm = com WHERE empno = eno;

11 END IF;

12 dbms\_output.put\_line('UPDATE complete sucessfully');

13\* END;

SQL> /

PL/SQL procedure successfully completed.

SQL> select \* from emp where empno=7369;

EMPNO ENAME JOB MGR HIREDATE SAL

---------- -------------------- ---------- ---------- --------- ----------

COMM DEPTNO

---------- ----------

7369 smith clerk 7902 17-DEC-80 800

300 20

**6.D //PL/SQL code which produces the following output:**

**(i.e Program to find out who is reporting to whom starting FROM empno 7876)**

Empno Ename Reporting to

--------- --------- -----------------

7876 ADAMS SCOTT

7788 SCOTT JONES

7566 JONES KING

7839 KING -

SQL> ed

Wrote file afiedt.buf

1 DECLARE

2 mg emp.mgr%TYPE;

3 emnu emp.empno%TYPE;

4 en emp.ename%TYPE;

5 mn emp.ename%TYPE;

6 sn NUMBER(4);

7 BEGIN

8 sn := &sn

9 SELECT empno,ename,mgr INTO emnu, en, mg FROM emp WHERE

10 empno = sn;

11 LOOP

12 SELECT empno,mgr,ename INTO emnu,mg,mn FROM emp

13 WHERE empno = mg;

14 dbms\_output.put\_line(sn||' '||en||' '||mn);

15 EXIT WHEN mg IS NULL;

16 sn :=emnu;

17 emnu :=mg;

18 en :=mn;

19 END LOOP;

20 dbms\_output.put\_line(emnu||' '||mn);

21 COMMIT;

22\* END;

SQL> /

Enter value for sn: 7876;

old 8: sn := &sn

new 8: sn := 7876;

7876 adams scott

7788 scott jones

7566 jones king

7839 king

PL/SQL procedure successfully completed.