

15IT302J-DATABASE MANAGEMENT SYSTEMS

DATE:24/08/2019

EXP:6-SQL WITHIN PL/SQL

NAME:NANDISH SHAH

REG NO:RA1711008010143

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
7788	scott	analyst	7566	09-DEC-82	3000

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 /
```

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PL/SQL procedure successfully completed.

SQL> select * from emp where empno=7788;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
7788	scott	analyst	7566	09-DEC-82	3050

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)

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SQL> ed

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```
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		

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
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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

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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;
```

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```
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.