

DATE:24/08/2019

EXP:7-COMPOSITE DATA TYPES

NAME:NANDISH SHAH

REG NO:RA1711008010143

7A //Display the total salary which includes commission of empno.7369. it should also display employee name, his department details AND his old AND new salary.

SQL> ed

Wrote file afiedt.buf

```

1 DECLARE
2 x NUMBER(4);
3 TYPE dr IS RECORD
4 (dno dept.deptno % TYPE,
5  vname dept.dname %TYPE,
6  vloc dept.loc % TYPE,
7  name emp.ename % TYPE,
8  vsal emp.sal % TYPE,
9  vcom emp.comm % TYPE,
10 newsal emp.sal % TYPE);
11 d dr;
12 BEGIN
13 SELECT ename, sal, comm, dept.deptno, dname, loc
14 INTO d.name, d.vsal, d.vcom, d.dno, d.vname, d.vloc
15 FROM emp,dept
16 WHERE emp.deptno =dept.deptno AND empno=&x;
17 d.newsal:=d.vsal+NVL(d.vcom,0);
18 dbms_output.put_line(d.dno||' '||d.vname||' '||' '||d.vloc||' '||' '||d.vsal||' '||d.vcom||'
'||d.newsal);
19* END;
```

SQL> /

Enter value for x: 7876

old 16: WHERE emp.deptno =dept.deptno AND empno=&x;

new 16: WHERE emp.deptno =dept.deptno AND empno=7876;

20 research dallas 1100 1100

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PL/SQL procedure successfully completed.

7.B //To load the employee name AND salaries INTO PL/SQL tables AND THEN display the content of the table.

SQL> ed

Wrote file afiedt.buf

```
1 DECLARE
2 TYPE empnameTYPE IS TABLE OF emp.ename % TYPE INDEX
3 BY BINARY_INTEGER;
4 TYPE empsalTYPE IS TABLE OF emp.ename % TYPE INDEX BY
5 BINARY_INTEGER;
6 enamelist empnameTYPE;
7 salarylist empsalTYPE;
8 SUBSCRIPT BINARY_INTEGER:=1;
9 ctr NUMBER(2):=1;
10 BEGIN
11 FOR empree IN (SELECT ename,sal FROM emp)
12 LOOP
13 enamelist(SUBSCRIPT):=empree.ename;
14 salarylist(SUBSCRIPT):=empree.sal;
15 SUBSCRIPT:=SUBSCRIPT+1;
16 END LOOP;
17 WHILE ctr<SUBSCRIPT
18 LOOP
19 dbms_output.put_line(enamelist(ctr));
20 dbms_output.put_line(salarylist(ctr));
21 ctr:=ctr+1;
22 END LOOP;
23* END;
```

SQL> /

smith

15IT302J-DATABASE MANAGEMENT SYSTEMS

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EXP:7-COMPOSITE DATA TYPES

NAME:NANDISH SHAH

REG NO:RA1711008010143

800

allen

1600

ward

1250

jones

2975

martin

1250

blake

2850

clark

2450

scott

3050

king

5000

turner

1500

adams

1100

james

950

ford

3000

milller

1300

PL/SQL procedure successfully completed.