**WEEK #12**

**Problem #1**

set verify off

set serveroutput on

**declare**

e\_id emp\_raise.empno%type ;

e\_name emp\_raise.ename%type;

e\_job emp\_raise.job%type;

e\_deptno emp\_raise.deptno%type;

e\_sal emp\_raise.sal%type;

sal\_raise emp\_raise.sal%type;

**CURSOR** empraise\_cursor is

select empno, ename, job, deptno,sal

from emp\_raise;

**begin**

OPEN empraise\_cursor;

FETCH empraise\_cursor into e\_id, e\_name, e\_job, e\_deptno,e\_sal;

**WHILE** empraise\_cursor%FOUND **LOOP**

IF e\_deptno = 10 THEN

sal\_raise := e\_sal+(e\_sal\*.05);

ELSIF e\_deptno = 20 THEN

sal\_raise:= e\_sal+(e\_sal\*.075);

ELSIF e\_deptno = 30 THEN

sal\_raise := e\_sal+(e\_sal\*.1);

ELSE

sal\_raise := e\_sal;

END IF;

dbms\_output.put\_line (e\_id ||' ' || e\_name || ' ' || e\_job || ' '|| e\_deptno|| ' '|| e\_sal||' '||sal\_raise);

**FETCH** empraise\_cursor into e\_id, e\_name, e\_job, e\_deptno,e\_sal;

**END LOOP**;

CLOSE empraise\_cursor;

end;

/

set serveroutput off

set verify on

**SQL> @ emp\_raise**

**SAL RAISED\_SAL**

7369 SMITH CLERK 20 800 **860**

7499 ALLEN SALESMAN 30 1600 **1760**

7521 WARD SALESMAN 30 1250 **1375**

7566 JONES MANAGER 20 2975 **3198.13**

7654 MARTIN SALESMAN 30 1250 **1375**

7698 BLAKE MANAGER 30 2850 **3135**

7782 CLARK MANAGER 10 2450 **2572.5**

7788 SCOTT ANALYST 20 3000 **3225**

7839 KING PRESIDENT 10 5000 **5250**

7844 TURNER SALESMAN 30 1500 **1650**

7876 ADAMS CLERK 20 1100 **1182.5**

7900 JAMES CLERK 30 950 **1045**

7902 FORD ANALYST 20 3000 **3225**

7934 MILLER CLERK 10 1300 **1365**

PL/SQL procedure successfully completed.

**Problem #2**

set verify off

set serveroutput on

declare

e\_id emp\_raise.empno%type ;

e\_name emp\_raise.ename%type;

e\_job emp\_raise.job%type;

e\_deptno emp\_raise.deptno%type;

e\_sal emp\_raise.sal%type;

sal\_raise emp\_raise.sal%type;

CURSOR empraise\_cursor is

select empno, ename, job, deptno,sal

from emp\_raise;

begin

OPEN empraise\_cursor;

FETCH empraise\_cursor into e\_id, e\_name, e\_job, e\_deptno, e\_sal;

WHILE empraise\_cursor%FOUND LOOP

IF e\_deptno = 10 THEN

IF e\_sal > 2000 then

sal\_raise := e\_sal+(e\_sal \*.06);

ELSE sal\_raise := e\_sal+(e\_sal \*.07);

END IF;

END IF;

IF e\_deptno = 20 THEN

IF e\_sal > 2500 THEN

sal\_raise := e\_sal+(e\_sal \*.05);

ELSE sal\_raise := e\_sal+(e\_sal \*.055);

END IF;

END IF;

IF e\_deptno = 30 THEN

IF e\_sal >1000 THEN

sal\_raise := e\_sal+(e\_sal \*.07);

ELSE

sal\_raise := e\_sal+(e\_sal \*.65);

END IF;

END IF;

dbms\_output.put\_line (e\_id ||' ' || e\_name || ' ' || e\_job || ' '|| e\_deptno|| ' '|| e\_sal||' '||sal\_raise);

FETCH empraise\_cursor into e\_id, e\_name, e\_job, e\_deptno,e\_sal;

END LOOP;

CLOSE empraise\_cursor;

end;

/

set serveroutput off

set verify on

SQL> @ emp\_raise1

**SAL** **RAISED\_SAl**

7369 SMITH CLERK 20 800 844

7499 ALLEN SALESMAN 30 1600 1712

7521 WARD SALESMAN 30 1250 1337.5

7566 JONES MANAGER 20 2975 3123.75

7654 MARTIN SALESMAN 30 1250 1337.5

7698 BLAKE MANAGER 30 2850 3049.5

7782 CLARK MANAGER 10 2450 2597

7788 SCOTT ANALYST 20 3000 3150

7839 KING PRESIDENT 10 5000 5300

7844 TURNER SALESMAN 30 1500 1605

7876 ADAMS CLERK 20 1100 1160.5

7900 JAMES CLERK 30 950 1567.5

7902 FORD ANALYST 20 3000 3150

7934 MILLER CLERK 10 1300 1391

PL/SQL procedure successfully completed.

**Problem #3**

**Script for inventory table**

create table inventory

( ITEMNO VARCHAR2(4) constraint item\_pk primary key,

ITEMNAME VARCHAR2(15),

ONHAND NUMBER(5),

PRICE NUMBER(6,2));

insert into inventory

values('1111', 'Good Night Moon' , 30 , 12.99);

insert into inventory

values('2222', 'Heidi', 12, 15);

insert into inventory

values('3333', 'Adven Reddy Fox', 5 , 20 );

insert into inventory

values(4444', 'Teddy Bear' , 25,10 );

insert into inventory

values('5555', 'Building Blocks', 30, 16);

insert into inventory

values('6666', 'Doll House' , 14, 55 );

insert into inventory

values('7777','Basketball',24,25 );

select \* from inventory;

**script for transaction table**

create table transaction

(trans\_no varchar2(4),

ITEMNO VARCHAR2(4),

trans\_code varchar2(4),

quantity number(5));

insert into transaction

values('01', '2222', 's', 15);

insert into transaction

values('02','1111', 'p', 12);

insert into transaction

values('03', '3333', 's', 14);

insert into transaction

values('04', '2222', 'r', 5);

insert into transaction

values('05', '1111', 'p', 30);

insert into transaction

values('06','4444', 's', 5);

insert into transaction

values('07', '5555', 'r', 3);

insert into transaction

values('08', '4444', 'p', 20);

insert into transaction

values('09', '6666', 's', 15);

select \* from transaction;

**Problem #4**

set serveroutput on

DECLARE

item\_no inventory.itemno%type;

quantity\_onhand inventory.onhand%type;

change\_quantity transaction.quantity%type;

new\_quantity inventory.onhand%type;

i\_code transaction.TRANS\_CODE %type;

CURSOR inven\_cursor is

select itemno,onhand from inventory

order by itemno;

CURSOR transaction\_cursor is

select TRANS\_CODE , itemno,quantity from transaction

where item\_no = itemno

order by itemno;

BEGIN

OPEN inven\_cursor;

FETCH inven\_cursor into item\_no, quantity\_onhand;

dbms\_output.put\_line('item\_no' ||' '||' code '||'onhand '|| ' ' ||' new\_q');

WHILE inven\_cursor%FOUND LOOP

OPEN transaction\_cursor;

new\_quantity:= quantity\_onhand ;

FETCH transaction\_cursor into i\_code,item\_no, change\_quantity;

IF transaction\_cursor%NOTFOUND THEN

dbms\_output.put\_line(item\_no ||' '||quantity\_onhand || ' ' || new\_quantity);

END IF;

WHILE transaction\_cursor%FOUND LOOP

IF i\_code = 'p' then

new\_quantity := new\_quantity + change\_quantity;

dbms\_output.put\_line(item\_no ||' ' ||i\_code ||' '||quantity\_onhand || ' ' || new\_quantity);

quantity\_onhand := new\_quantity;

ELSIF i\_code = 'r' then

new\_quantity := new\_quantity + change\_quantity;

dbms\_output.put\_line(item\_no ||' ' ||i\_code ||' '||quantity\_onhand || ' ' || new\_quantity);

quantity\_onhand := new\_quantity;

ELSIF i\_code = 's'then

new\_quantity := new\_quantity - change\_quantity;

dbms\_output.put\_line(item\_no ||' ' ||i\_code ||' '||quantity\_onhand || ' ' || new\_quantity);

quantity\_onhand := new\_quantity;

END IF;

FETCH transaction\_cursor into i\_code,item\_no, change\_quantity;

END LOOP;

CLOSE transaction\_cursor;

FETCH inven\_cursor into item\_no, quantity\_onhand;

END LOOP;

CLOSE inven\_cursor;

end;

/

set serveroutput off

**SQL> @inven**

item\_no code onhand new\_q

1111 p 30 42

1111 p 42 72

2222 s 12 -3

2222 2 r -3

3333 s 5 -9

5555 r 30 33

6666 s 14 -1

7777 24 24

PL/SQL procedure successfully completed.