

--4.8

DECLARE

totalCost EMPLOYEE.sal%TYPE := 0;

salIncrement EMPLOYEE.sal%TYPE :=0;

CURSOR cur IS select*from EMPLOYEE where job != 'PRESIDENT' for update of sal;

BEGIN

for current_emp In cur Loop

if current_emp.sal *12 * 0.06 > 2000 then salIncrement := 2000;

else salIncrement := current_emp.sal *12 * 0.06;

end if;

DBMS_OUTPUT.PUT_LINE('empno:' || current_emp.empno || ' current annual
salary:' || current_emp.sal*12 || ' SAL:' || salIncrement || ' new annual
salary:' || ((current_emp.sal*12)+salIncrement));

totalCost := totalCost + salIncrement;

Update Employee Set sal = current_emp.sal+ salIncrement/12 where current of cur;

End loop;

DBMS_OUTPUT.PUT_LINE('total annual cost:' || totalCost);

END;

--4.9

DECLARE

CURSOR cur IS

SELECT pl.idpledge, pl.pledgeamt, pl.paymonths, pay.paydate, pay.payamt FROM dd_payment pay,
dd_pledge pl

WHERE pl.idpledge = pay.idpledge

AND pl.iddonor = 309 ORDER BY pay.idpledge, pay.paydate;

TYPE type_pay IS RECORD

(plg_id dd_pledge.idpledge%TYPE,

amt dd_pledge.pledgeamt%TYPE,

```

        pMonths dd_pledge.paymonths%TYPE,
        pDate dd_payment.paydate%TYPE,
        pay_amt dd_payment.payamt%TYPE);
pay_info type_pay;

BEGIN

DBMS_OUTPUT.PUT_LINE('Payment Info for donor no. 310' );
DBMS_OUTPUT.PUT_LINE('-----');
OPEN cur;
LOOP
    FETCH cur INTO pay_info;
    EXIT WHEN cur%NOTFOUND;
    DBMS_OUTPUT.PUT_LINE('Pledge ID: ' || pay_info.plg_id);
    DBMS_OUTPUT.PUT_LINE('Amount : ' || pay_info.amt);
    DBMS_OUTPUT.PUT_LINE('Months : ' || pay_info.pMonths);
    DBMS_OUTPUT.PUT_LINE('date: ' || pay_info.pDate);
    DBMS_OUTPUT.PUT_LINE('Pay amount : ' || pay_info.pay_amt);
    DBMS_OUTPUT.PUT_LINE('-----');
END LOOP;
CLOSE cur;
END;

```

--4.11

```

DECLARE

min_amt NUMBER;
code VARCHAR2 (2);
condition BOOLEAN ;
fname dd_donor.firstname%TYPE;

```

```
CURSOR info IS SELECT d.firstname, d.lastname, d.typecode, p.pledgeamt
                    FROM dd_donor d, dd_pledge p WHERE d.iddonor = p.iddonor;
```

```
TYPE type_fil IS TABLE OF NUMBER INDEX BY VARCHAR2(2);
```

```
fil type_fil;
```

```
BEGIN
```

```
    fil('I') := 250;
```

```
    fil('B') := 500;
```

```
FOR rec IN info LOOP
```

```
    condition := FALSE;
```

```
    code := fil.FIRST;
```

```
    WHILE code IS NOT NULL LOOP
```

```
        IF rec.typecode = code THEN
```

```
            min_amt := fil(code);
```

```
            IF rec.pledgeamt > min_amt THEN
```

```
                condition := TRUE;
```

```
            END IF;
```

```
        END IF;
```

```
        code := fil.NEXT(code);
```

```
    END LOOP;
```

```
IF rec.firstname IS NOT NULL THEN
```

```
    fname := rec.firstname;
```

```
END IF;
```

```
IF condition THEN
```

```
    DBMS_OUTPUT.PUT_LINE (fname || ' ---> ' || rec.pledgeamt);
```

END IF;

END LOOP;

END;