**16. Cursor (Any Two) a) The bank manager has decided to activate all those accounts which were previously marked as inactive for performing no transaction in last 365 days. Write a PL/SQ block (using implicit cursor) to update the status of account, display an approximate message based on the no. of rows affected by the update. (Use of %FOUND, %NOTFOUND, %ROWCOUNT)**

**SQL> create table bank\_manager(**

**2 id number(3) not null primary key,**

**3 inactive\_days number(3)**

**4 );**

**Table created.**

**SQL> insert into bank\_manager (id, inactive\_days) values (01,256);**

**1 row created.**

**SQL> insert into bank\_manager (id, inactive\_days) values (02,456);**

**1 row created.**

**SQL> insert into bank\_manager (id, inactive\_days) values (03,545);**

**1 row created.**

**SQL> insert into bank\_manager (id, inactive\_days) values (04,222);**

**1 row created.**

**SQL> insert into bank\_manager (id, inactive\_days) values (05,120);**

**1 row created.**

**SQL> insert into bank\_manager (id, inactive\_days) values (06,03);**

**1 row created.**

**SQL> select \* from bank\_manager;**

**ID INACTIVE\_DAYS**

**---------- -------------**

**1 256**

**2 456**

**3 545**

**4 222**

**5 120**

**6 3**

**6 rows selected.**

**SQL> alter table bank\_manager add status number(2) ;**

**Table altered.**

**SQL> select \* from bank\_manager;**

**ID INACTIVE\_DAYS STATUS**

**---------- ------------- ----------**

**1 256**

**2 456**

**3 545**

**4 222**

**5 120**

**6 3**

**6 rows selected.**

**SQL> edit**

**Wrote file afiedt.buf**

**1 declare**

**2 total\_rows number(3);**

**3 begin**

**4 update bank\_manager set status = 1 where inactive\_days>356;**

**5 if sql%notfound then**

**6 dbms\_output.put\_line('No Record Found');**

**7 elsif sql%found then**

**8 total\_rows := sql%rowcount;**

**9 dbms\_output.put\_line('Account Updated: '||total\_rows);**

**10 end if;**

**11\* end;**

**SQL> /**

**PL/SQL procedure successfully completed.**

**SQL> set serveroutput on;**

**SQL> /**

**Account Updated: 2**

**PL/SQL procedure successfully completed.**

**SQL> select \* from bank\_manager;**

**ID INACTIVE\_DAYS STATUS**

**---------- ------------- ----------**

**1 256**

**2 456 1**

**3 545 1**

**4 222**

**5 120**

**6 3**

**6 rows selected.**

**SQL>**

**b)Organization has decided to increase the salary of employees by 10% of existing salary, who are having salary less than average salary of organization, Whenever such salary updates takes place, a record for the same is maintained in the increment\_salary table.**

**SQL> create table employee2(**

**2 id number not null primary key,**

**3 name varchar2(20),**

**4 salary number(10,2) not null**

**5 );**

**Table created.**

**SQL> insert into employee2(id,name,salary) values (1,'Rushikesh',20000);**

**1 row created.**

**SQL> insert into employee2(id,name,salary) values (2,'Ritul',30000);**

**1 row created.**

**SQL> insert into employee2(id,name,salary) values (3,'Sanket',35000);**

**1 row created.**

**SQL> insert into employee2(id,name,salary) values (4,'Isha',40000);**

**1 row created.**

**SQL> insert into employee2(id,name,salary) values (5,'Kunal',25000);**

**1 row created.**

**SQL> insert into employee2(id,name,salary) values (6,'Ranjit',18000);**

**1 row created.**

**SQL> select \* from employee2;**

**ID NAME SALARY**

**---------- -------------------- ----------**

**1 Rushikesh 20000**

**2 Ritul 30000**

**3 Sanket 35000**

**4 Isha 40000**

**5 Kunal 25000**

**6 Ranjit 18000**

**6 rows selected.**

**SQL> edit**

**Wrote file afiedt.buf**

**1 declare**

**2 av\_salary number(10,2);**

**3 begin**

**4 av\_salary := &av\_salary;**

**5 update employee2 set salary = salary\*0.10 where salary < av\_salary;**

**6 if sql%found then**

**7 dbms\_output.put\_line('Rows Updated: '||sql%rowcount);**

**8 elsif sql%notfound then**

**9 dbms\_output.put\_line('No Record Found');**

**10 end if;**

**11\* end;**

**SQL> /**

**Enter value for av\_salary: 28000**

**old 4: av\_salary := &av\_salary;**

**new 4: av\_salary := 28000;**

**PL/SQL procedure successfully completed.**

**SQL> set serveroutput on;**

**SQL> /**

**Enter value for av\_salary: 28000**

**old 4: av\_salary := &av\_salary;**

**new 4: av\_salary := 28000;**

**Rows Updated: 3**

**PL/SQL procedure successfully completed.**

**c) Write PL/SQL block using explicit cursor for following requirements: College has decided to mark all those students detained (D) who are having attendance less than 75%. Whenever such update takes place, a record for the same is maintained in the D\_Stud table. create table stud21(roll number(4), att number(4), status varchar(1));**

**SQL> create table stud21(**

**2 roll number(4) not null primary key,**

**3 att number(4) not null,**

**4 status varchar(1)**

**5 );**

**Table created.**

**SQL> insert into stud21 (roll,att) values (1,78);**

**1 row created.**

**SQL> insert into stud21 (roll,att) values (2,58);**

**1 row created.**

**SQL> insert into stud21 (roll,att) values (3,76);**

**1 row created.**

**SQL> insert into stud21 (roll,att) values (4,66);**

**1 row created.**

**SQL> insert into stud21 (roll,att) values (5,56);**

**1 row created.**

**SQL> insert into stud21 (roll,att) values (6,88);**

**1 row created.**

**SQL> create table d\_stud(**

**2 roll number(4) not null,**

**3 att number(4) not null,**

**4 status varchar(1)**

**5 );**

**Table created.**

**SQL> set linesize 160;**

**SQL> select \* from stud21;**

**ROLL ATT S**

**---------- ---------- -**

**1 78**

**2 58**

**3 76**

**4 66**

**5 56**

**6 88**

**6 rows selected.**

**SQL> declare**

**2 cursor stu\_cursor is**

**3 select roll,att from stud21 where att<75;**

**4 stud\_record stu\_cursor%rowtype;**

**5 begin**

**6 open stu\_cursor;**

**7 loop**

**8 fetch stu\_cursor into stud\_record;**

**9 exit when stu\_cursor%notfound;**

**10 insert into d\_stud (roll,att) values (stud\_record.roll,stud\_record.att);**

**11 update stud21 set status = 'D' where roll = stud\_record.roll;**

**12 end loop;**

**13 end;**

**14 /**

**PL/SQL procedure successfully completed.**

**SQL> select \* from stud21;**

**ROLL ATT S**

**---------- ---------- -**

**1 78**

**2 58 D**

**3 76**

**4 66 D**

**5 56 D**

**6 88**

**6 rows selected.**

**SQL> select \* from d\_stud;**

**ROLL ATT S**

**---------- ---------- -**

**2 58**

**4 66**

**5 56**

**SQL>**