

Assignment 6

Q1) 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 acc_dets176(id int , name varchar(20) , status varchar( 20 )) ;
```

```
SQL> insert into acc_dets176 values(1, 'Rohit', 'inactive');
```

```
1 row created.
```

```
SQL> insert into acc_dets176 values(2, 'Shantanu', 'active');
```

```
1 row created.
```

```
SQL> insert into acc_dets176 values(3, 'Suyash', 'inactive');
```

```
1 row created.
```

```
SQL> select* from acc_dets176;
```

```
ID NAME          STATUS
```

```
1 Rohit         inactive
```

```
2 Shantanu      active
```

```
3 Suyash       inactive
```

```
SQL> declare·
```

```
2 total_rows int;
```

```
3 begin
```

```
4 update acc_dets176
```

```
5 set status = 'active'
```

```
6 where status= ' inactive';
```

```
7 if sql%notfound then
```

```
8 dbms_output.put_line (1 no accounts updated 1 );
```

```
9 elsif sql%found then
```

```
10 total_rows := sql%rowcount;
```

```
11 dbms_output . put_line{ ' accounts affected:' || total_rows );
```

```
12 end if;
```

```
13 end;
```

```
14 /
```

PL/SQL procedure, successfully completed .

```
SQL> select* from acc_dets176;
```

```
ID NAME          STATUS
```

```
-----
```

```
1 Rohit         active
```

2 Shantanu active
3 Sahil active

Q2) 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 emp176(e_no int, salary int) ;  
Table created.
```

```
SQL> insert into emp176 values(1 , 12000);  
1 row created .
```

```
SQL> insert into emp176 values(2, 24000) ;  
1 row created.
```

```
SQL> insert into emp176 values(3, 360000);  
1 row created.
```

```
SQL> create table inc_salary176(e_no int , salary int);  
Table created.
```

```
SQL > set serveroutput on;  
SQL> create procedure salary is  
cursor cur1 is  
select* from emp176;  
temp emp176%rowtype;  
avg_salary int;  
temp2 int;  
begin  
select avg1(salary) into avg_salary from emp176;  
open cur1;  
loop  
fetch cur1 into temp;  
exit when cur1%notfound;  
if(temp.salary < avg_salary) then  
update emp176  
set salary = temp.salary +(0.1*temp.salary)  
where e_no = temp.e_no;  
insert into inc_salary176 values(temp.e_no, temp.salary+(0.1*temp.salary));  
end if;  
end loop;  
close cur1;  
end;  
/
```

Procedure created.

SQL> select* from emp176;

E_NO	SALARY
1	12000
2	24000
3	360000

SQL> exec salary;

PL/SQL procedure successfully completed

SQL> select * from emp176;

E_NO	SALARY
1	13200
2	26400
3	396000

SQL> select * from inc_salary176;

E_NO	SALARY
1	13200
3	396000

Q3) 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));
create table d_stud(roll number(4), att number(4));

SQL> create table students176(roll int, att int, status varchar);

Table created.

SQL> create table d_stud176(roll int, att int);

Table created.

SQL> insert into students176 values(1, 68, "');

1 row created.

SQL> insert into students176 values(2, 89, "');

1 row created.

SQL> insert into students176 values(3, 35, "');

1 row created.

SQL> insert into students176 values(4, 71, "');

1 row created.

SQL> insert into students176 values(5, 99, "');

1 row created.

```
SQL> select * from students176;
```

E_NO	ATT	S
1	68	
2	89	

```
SQL> create procedure detention is
cursor cur1 is
select * from students176;
temp students176%rowtype;
begin
open cur1;
loop
fetch cur1 into temp;
exit when cur1%notfound;
if(temp.att<75) then
update students176
set status = 'D'
where roll = temp.roll;
insert into d_stud176 values(temp.roll, temp.att);
elsif(temp.att>75) then
update students176
set status = 'N'
where roll = temp.roll;
end if;
end loop;
close cur1;
end;
/
```

Procedure created.

```
SQL> exec detention;
```

PL/SQL procedure successfully completed.

```
SQL> select * from students176;
```

ROLL	ATT	S
1	68	D
2	89	N
3	35	D
4	71	D
5	99	N

```
SQL> select * from d_stud176;
```

ROLL	ATT
------	-----

-----1-----	-----68-----
3	35
4	71

SQL> select * from students176;

ROLL	ATT	S
------	-----	---

-----	-----	-----
1	78	
2	89	
3	35	
4	71	
5	99	

SQL> select * from d_stud176;

no rows selected

SQL> create procedure detention is

cursor cur1 is

select * from students176;

begin

for l in cur1 loop

if(i.att<75) then

update students176

set status = 'D'

where roll = i.roll;

insert into d_stud176 values(i.roll, i.att);

elsif(i.att>75) then

update students176

set status = 'N'

where roll = i.roll;

end if;

end loop;

end;

/

Procedure created.

SQL> exec detention;

PL/SQL procedure successfully completed.

SQL> select * from students176;

ROLL	ATT	S
------	-----	---

-----	-----	-----
1	68	D
2	89	N
3	35	D
4	71	D
5	99	N

Q4 . parameterized Cursor

Write a PL/SQL block of code using parameterized Cursor, that will merge the data available in the newly created table N_RollCall with the data available in the table O_RollCall. If the data in the first table already exist in the second table then that data should be skipped.

```
create table O_RollCall(  
roll int,  
name varchar(10)  
);  
create table N_RollCall(  
roll int,  
name varchar(10)  
);
```

```
SQL> insert into O_RollCall values(1,'kunal');
```

1 row created.

```
SQL> insert into O_RollCall values(2,'vineet');
```

1 row created.

```
SQL> insert into O_RollCall values(3,'abhishek');
```

1 row created.

```
SQL> insert into O_RollCall values(4,'pratik');
```

1 row created.

```
SQL> insert into O_RollCall values(5,'moin');
```

1 row created.

```
SQL> insert into O_RollCall values(6,'aniket');
```

1 row created.

```
SQL> insert into O_RollCall values(7,'tanuja');
```

1 row created.

```
SQL> insert into N_RollCall values(2,'vineet');
```

1 row created.

```
SQL> insert into N_RollCall values(5,'pratik');
```

1 row created.

```
SQL> select * from O_RollCall;
```

ROLL NAME

1 kunal

2 vineet

3 abhishek

4 pratik

5 moin

6 aniket

7 tanuja

7 rows selected.

```
SQL> select * from N_RollCall;
```

ROLL NAME

2 vineet

5 pratik

```
declare
```

```
m_roll int;
```

```
m_name varchar(30);
```

```
temp int;
```

```
cursor old_cursor is select roll,name from O_RollCall;
```

```
cursor new_cursor(pi_roll int) is select roll from N_RollCall where roll = pi_roll;
```

```
begin
```

```
open old_cursor;
```

```
loop
```

```
fetch old_cursor into m_roll,m_name;
```

```
exit when old_cursor%notfound;
```

```
open new_cursor(m_roll);
```

```
fetch new_cursor into temp;
```

```
if new_cursor%notfound then
```

```
insert into N_RollCall values(m_roll,m_name);
```

```
end if;
```

```
close new_cursor;
```

```
end loop;
```

```
close old_cursor;
```

```
end;
```

```
/
```

PL/SQL procedure successfully completed.

Q5.parameterized Cursor

Write the PL/SQL block for following requirements using parameterized Cursor:

Consider table EMP(e_no, d_no, Salary), department wise average salary should

be inserted into new table dept_salary(d_no, Avg_salary)

```
SQL>create table empnew
```

```
(
```

```
e_no int,
```

```
d_no int,
```

```
salary float
```

```
);
```

Table created.

```
SQL> create table dept_salary
```

```
(  
d_no int,  
salary float  
);  
Table created.
```

```
SQL> insert into empnew values(101,401,750000);  
1 row created.
```

```
SQL> insert into empnew values(102,401,120000);  
1 row created.
```

```
SQL> insert into empnew values(103,402,500000);  
1 row created.
```

```
SQL> insert into empnew values(104,403,400000);  
1 row created.
```

```
SQL> insert into empnew values(105,402,800000);  
1 row created.
```

```
SQL> insert into empnew values(106,404,50000);  
1 row created.
```

```
SQL> insert into empnew values(107,405,100000);  
1 row created.
```

```
SQL> select * from empnew;  
E_NO D_NO SALARY
```

```
-----  
101 401 750000  
102 401 120000  
103 402 500000  
104 403 400000  
105 402 800000  
106 404 50000  
107 405 100000  
7 rows selected.
```

```
declare  
lf_salary float;  
cursor avg_sal(pi_d_no int) is select avg(salary) avg_sal from empnew where  
d_no=pi_d_no;  
begin  
for li_d_no in (select distinct d_no from empnew)  
loop  
open avg_sal(li_d_no.d_no);  
fetch avg_sal into lf_salary;  
close avg_sal;  
insert into dept_salary values(li_d_no.d_no,lf_salary);  
end loop;  
end;
```


/

PL/SQL procedure successfully completed.

```
SQL> select * from dept_salary;  
D_NO SALARY
```

```
401 435000  
402 650000  
403 400000  
404 50000  
405 100000
```

Q6) Write PL/SQL block using explicit cursor: Cursor FOR Loop 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));

create table d_stud(roll number(4), att number(4));

```
create table stud21  
( roll number(4),  
att number(4),  
status varchar(1)  
); Table created.  
create table d_stud21  
( roll number(4),  
att number(4)  
); Table created.
```

```
SQL> insert into stud21 values(1,89,NULL);  
1 row created.
```

```
SQL> insert into stud21 values(2,69,NULL);  
1 row created.
```

```
SQL> insert into stud21 values(3,82,NULL);  
1 row created.
```

```
SQL> insert into stud21 values(4,74,NULL);  
1 row created.
```

```
SQL> insert into stud21 values(5,99,NULL);  
1 row created.
```

```
SQL> insert into stud21 values(6,45,NULL);
```

```
SQL> select * from stud21;  
ROLL ATT S
```

```
----- -
1 89
2 69
3 82
4 74
5 99
6 45
6 rows selected.
```

```
declare
ln_roll number(4);
ln_att number(4);
cursor att_cursor is select roll,att from stud21 where att<75;
begin
for stud_record in att_cursor
loop
update stud21 set status='D' where roll=stud_record.roll;
insert into d_stud21 values(stud_record.roll,stud_record.att);
end loop;
end;
PL/SQL procedure successfully completed.
```

```
SQL> select * from stud21;
ROLL ATT S
```

```
----- -
1 89
2 69 D
3 82
4 74 D
5 99
6 45 D
```

```
6 rows selected.
SQL> select * from d_stud21;
ROLL ATT
```

```
----- -
2 69
4 74
6 45
```