# **Assignment 6**

**Q1.** 1. The bank manager has decided to activate all those accounts which were previously marked as inactive for performing no transaction in the last 365 days. Write a PL/SQL block (using implicit cursor) to update the status of the account, display an approximate message based on the no. of rows affected by the update.

```
CREATE TABLE acc_details(Acc_no NUMBER, Name VARCHAR(9), status VARCHAR(8));
INSERT INTO acc_details VALUES(1520, 'XYZ', 'Inactive');
INSERT INTO acc_details VALUES(1521, 'abc', 'Active');
INSERT INTO acc_details VALUES(1522, 'pqr', 'Inactive');
INSERT INTO acc_details VALUES(1523, 'Imn', 'Inactive');
INSERT INTO acc_details VALUES(1524, 'Xab', 'Active');
```

ACC_NO	NAME	STATUS
1520	XYZ	Inactive
1521	abc	Active
1522	pqr	Inactive
1523	lmn	Inactive
1524	Xab	Active

```
DECLARE
Row_count NUMBER;

BEGIN

UPDATE acc_details SET status='Active' WHERE status='Inactive';

Row_count := SQL%ROWCOUNT;

DBMS_OUTPUT_LINE('Number of updated rows are ' || Row_count);

EXCEPTION

WHEN Others THEN
```

```
DBMS_OUTPUT.PUT_LINE('ERROR!');
END;
```

### **OUTPUT:-**

Number of updated rows are 3

PL/SQL procedure successfully completed.

### After execution of PL/SQL Block:-

A	ACC_NO	NAME	STATUS
-			
	1520	XYZ	Active
	1521	abc	Active
	1522	pqr	Active
	1523	lmn	Active
	1524	Xab	Active

**Q2.** Organization has decided to increase the salary of employees by 10% of existing salary, who are having salaries less than the average salary of the organization. Whenever such salary updates take place, a record for the same is maintained in the increment\_salary table.

```
EMP (E_no , Salary)
Increment_salary(E_no , Salary)
```

### **Ans:- (NOT COMPLETED)**

```
CREATE TABLE EMP(E_no NUMBER, Salary NUMBER);
INSERT INTO EMP VALUES(1361,25000);
INSERT INTO EMP VALUES(1362,21000);
INSERT INTO EMP VALUES(1363,35000);
INSERT INTO EMP VALUES(1364,45000);
INSERT INTO EMP VALUES(1365,19000);
CREATE TABLE Increment salary(E no NUMBER, Salary NUMBER);
```

```
Avg_sal NUMBER;
 Updated sal NUMBER;
 Sal NUMBER;
 emp no NUMBER;
 CURSOR C1 IS SELECT E no, Salary FROM EMP;
BEGIN
 SELECT AVG(Salary) INTO Avg sal FROM EMP;
 OPEN C1;
 LOOP
  FETCH C1 INTO emp_no, sal;
  EXIT WHEN C1%NOTFOUND;
  DBMS_OUTPUT.PUT_LINE('E_no: ' || emp_no || ' Salary: ' || sal);
  IF sal < Avg sal THEN
   Updated_sal := sal * 1.1;
   UPDATE EMP SET Salary = Updated sal WHERE E no = emp no;
   INSERT INTO Increment_salary VALUES (emp_no, Updated_sal);
  END IF:
 END LOOP;
 CLOSE C1;
END;
OUTPUT:-
E_no: 1361 Salary: 25000
E_no: 1362 Salary: 21000
E_no: 1363 Salary: 35000
E_no: 1364 Salary: 45000
E_no: 1365 Salary: 19000
E_no: 1365 Salary: 19000
PL/SQL procedure successfully completed.
```

**DECLARE** 

**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 an update takes place, a record for the same is maintained in the D Stud table. create table

stud19(roll number(4), att number(4), status varchar(1)); create table d\_stud(roll number(4), att number(4));

#### Ans:-

```
CREATE TABLE stud19(roll number(4), att number(4), status varchar(1));
 INSERT INTO stud19 VALUES (1,89,'-');
 INSERT INTO stud19 VALUES (2,69,'-');
 INSERT INTO stud19 VALUES (3,76,'-');
 INSERT INTO stud19 VALUES (4,55,'-');
 INSERT INTO stud19 VALUES (5,99,'-');
CREATE TABLE d_stud(roll number(4), att number(4));
DECLARE
 Stud att stud19.att%type;
 Stud roll stud19.roll%type;
 CURSOR c IS SELECT roll, att FROM stud19;
BEGIN
 OPEN c:
 LOOP
  FETCH c INTO Stud_roll,Stud_att;
  EXIT WHEN c%NOTFOUND:
  IF (Stud att < 75) THEN
   UPDATE stud19 SET status = 'D' WHERE roll = Stud roll;
   INSERT INTO d stud VALUES (Stud roll, Stud att);
  END IF;
 END LOOP;
 CLOSE c;
END;
OUTPUT:-
PL/SQL procedure successfully completed.
```

Q4.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 exists in the second table then that data should be skipped.

```
CREATE TABLE N_RollCall (id NUMBER,name VARCHAR2(10));
INSERT INTO N_RollCall VALUES (2, 'XYZ');
INSERT INTO N_RollCall VALUES (4, 'ABC');

CREATE TABLE O_RollCall (id NUMBER,name VARCHAR2(10));
INSERT INTO O_RollCall VALUES (1, 'Imn');
INSERT INTO O_RollCall VALUES (2, 'XYZ');
INSERT INTO O_RollCall VALUES (3, 'pqr');
INSERT INTO O_RollCall VALUES (4, 'ABC');
```

```
DECLARE
      CURSOR old csr is select id,name from O RollCall;
      CURSOR new csr(id1 number) is select * from N RollCall where id=id1;
      s id O RollCall.id%type:
       s name O RollCall.name%type;
      v N_RollCall%rowtype;
BEGIN
      open old csr;
      if old_csr%isopen then
      loop
             fetch old csr into s id,s name;
             exit when old csr%notfound;
             open new_csr(s_id);
             if new csr%isopen then
                           fetch new_csr into v;
                           if new csr%notfound then
                           INSERT INTO N RollCall VALUES (s id, s name);
                           end if:
             end if:
             close new_csr;
      end loop;
      end if;
      close old_csr;
END;
OUTPUT:-
PL/SQL procedure successfully completed.
SQL> select * from N_RollCall;
    ID NAME
     2 XYZ
     4 ABC
     1 lmn
     3 pqr
```

**Q5.**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 the new table dept\_salary(d\_no, Avg\_salary).

```
create table emp (emp number,d_no number,salary number); insert into emp values(1,101,4000); insert into emp values(2,101,5000); insert into emp values(3,103,5000); insert into emp values(4,104,10000); insert into emp values(5,105,8000);
```

## CREATE TABLE dept\_salary(d\_no NUMBER, Avg\_salary NUMBER);

```
Declare
 Cursor crsr1 is select d no from emp;
 Cursor crsr2(dept no number) is select avg(salary) from emp where d no=dept no;
 Cursor crsr3(dept no number) is select avg salary from dept salary where d no=dept no;
 dept id emp.d no%type;
 avg sal number;
Begin
 open crsr1;
 loop
  fetch crsr1 into dept id;
  exit when crsr1%notfound;
  open crsr2(dept_id);
  fetch crsr2 into avg sal;
  open crsr3(dept id);
  fetch crsr3 into avg sal;
  if crsr3%notfound then
   insert into dept_salary values(dept_id,avg_sal);
  end if;
 close crsr3:
 close crsr2;
 end loop;
 close crsr1;
End;
```

PL/SQL procedure successfully completed.

SQL> SELECT \* FROM dept\_salary;

D_NO	AVG_SALARY		
101	4500		
103	5000		
104	10000		
105	8000		

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**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 stud19(roll number(4), att number(4), status varchar(1)); INSERT INTO stud19 VALUES (1,89,'-');
```

```
INSERT INTO stud19 VALUES (2,69,'-');
 INSERT INTO stud19 VALUES (3,76,'-');
 INSERT INTO stud19 VALUES (4,55,'-');
 INSERT INTO stud19 VALUES (5,99,'-');
CREATE TABLE d_stud(roll number(4), att number(4));
Declare
 cursor update_status is select roll,att from stud19;
 for demo in update_status
 loop
  if demo.att< 75 then
   update stud19 set status='D' where roll=demo.roll;
   insert into d_stud values(demo.roll,demo.att);
   update stud19 set status='-' where roll=demo.roll;
  end if;
 end loop;
End;
```

PL/SQL procedure successfully completed.

# SQL> SELECT \* FROM stud19;

ATT	S
89	-
69	D
76	-
55	D
99	-
	89 69 76 55