

Assignment no 6

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1. 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.

PL/sql block:

```
declare
    rows_aff number(3);
begin
    update bank_accounts set acc_status='active' where acc_status='inactive';
    if sql%found then
        dbms_output.put_line('Status changes');
    elsif sql%notfound then
        dbms_output.put_line('No rows affected');
    end if;
    rows_aff := sql%rowcount;
    dbms_output.put_line('Total records changed : ' || rows_aff);
end;
```

output:

```
SQL> select * from bank_accounts;

  ACC_NO ACC_STATUS
-----
      101 active
      102 inactive
      103 active
      104 active
      105 inactive
      106 inactive

6 rows selected.
```

```
PL/SQL procedure successfully completed.

SQL> select * from bank_accounts;

  ACC_NO ACC_STATUS
-----
      101 active
      102 active
      103 active
      104 active
      105 active
      106 active

6 rows selected.
```

2. 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.

EMP (E_no , Salary)

increment_salary(E_no , Salary)

pl/sql block:

declare

cursor crsr is select e_no,salary from e_emp where salary<(select avg(salary) from e_emp);

meno e_emp.e_no%type;

msal e_emp.salary%type;

minc e_emp.salary%type;

begin

open crsr;

if crsr%isopen then

loop

fetch crsr into meno,msal;

exit when crsr%notfound;

msal := msal+msal*0.1;

insert into increment_salary values(meno,msal);

end loop;

end if;

close crsr;

end;

output:

```
SQL> select * from e_emp;
```

E_NO	SALARY
501	40000
502	10000
505	25000
601	19000
102	34000
290	9900

6 rows selected.

```
PL/SQL procedure successfully completed.
```

```
SQL> select * from increment_salary;
```

E_NO	SALARY
502	11000
601	20900
290	10890

```
SQL> select avg(salary) from e_emp;
```

AVG(SALARY)
22983.3333

3. 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));

pl/sql block:

```
declare
    cursor crsr is select roll,att,status from stud21 where att<75;
    mroll stud21.roll%type;
    matt stud21.att%type;
    mstatus stud21.status%type;
begin
    open crsr;
    if crsr%isopen then
        loop
            fetch crsr into mroll,matt,mstatus;
            exit when crsr%notfound;
            update stud21 set status='D' where roll=mroll;
            insert into d_stud values (mroll,matt);
        end loop;
    end if;
    close crsr;
end;
```

output:

```
SQL> select * from stud21;

  ROLL  ATT STATU
-----
    10    70
    11    80
    12    74
    14    65
    15    90
    16    75
    17    72
    18    86

8 rows selected.
```

```
PL/SQL procedure successfully completed.

SQL> select * from d_stud;

  ROLL  ATT
-----
    10    70
    12    74
    14    65
    17    72

SQL> select * from stud21;

  ROLL  ATT STATU
-----
    10    70 D
    11    80
    12    74 D
    14    65 D
    15    90
    16    75
    17    72 D
    18    86

8 rows selected.
```

4. 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.

Pl/sql block:

```
Declare
    cursor crsr is select roll from o_rollcall;
    cursor crsr_chk(mroll number) is select roll from n_rollcall where roll=mroll;
    mroll new_class.roll%type;
    v number(10);
Begin
    Open crsr;
        Loop
            fetch crsr into mroll;
            Exit When crsr%NOTFOUND;
            Open crsr_chk(mroll);
                Fetch crsr_chk into v;
                if crsr_chk%FOUND Then
                    dbms_output.put_line('roll' || ' ' || mroll || ' ' || 'exist');
                Else
                    dbms_output.put_line('Adding roll ' || mroll);
                    insert into n_rollcall values(mroll);
                End if;
            Close crsr_chk;
        End loop;
    Close crsr;
End;
```

Output:

```
SQL> select * from n_rollcall;

      ROLL
-----
         1
        10
        11
```

```
roll 10 exist
roll 1 exist
roll 11 exist
Adding roll 12
Adding roll 13
Adding roll 15
Adding roll 20

PL/SQL procedure successfully completed.

SQL> select * from n_rollcall;

      ROLL
-----
         1
        10
        11
        12
        13
        15
        20

7 rows selected.
```

5. 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));
```

pl/sql block:

Declare

```
Cursor crsr is select roll, att,status from stud21 where att<75;
```

Begin

```
for i IN crsr
```

```
loop
```

```
update stud21 set status='D' where
```

```
roll=i.roll;
```

```
insert into d_stud values(i.roll,i.att);
```

```
end loop;
```

End;

Output:

```
PL/SQL procedure successfully completed.
```

```
SQL> select * from stud21;
```

ROLL	ATT	STATU
10	70	D
11	80	
12	74	D
14	65	D
15	90	
16	75	
17	72	D
18	86	

```
8 rows selected.
```