

## Assignment 5

**Q1) Write a PL/SQL stored Procedure for following requirements and call the procedure in appropriate PL/SQL block.**

```
SQL> create or replace procedure cal_fine_176(mroll in number) is
fine number;
sdate date;
issuedate date;
noofdays number;
Begin
select dateofissue into issuedate from Book_Borrower_176 where roll_no=mroll;
select sysdate into sdate from dual;
noofdays:=to_date(sdate)-to_date(issuedate);
if noofdays>15 and noofdays<30 then
fine:=(noofdays-15)*5;
update Book_Borrower_176 set status='I' where roll_no=mroll;
insert into fine_176 values(mroll, sdate, fine);
elsif noofdays>30 then
fine:=75+(noofdays-30)*50;
update Book_Borrower_176 set status='I' where roll_no=mroll;
insert into fine_176 values(mroll, sdate, fine);
else
update Book_Borrower_176 set status='I' where roll_no=mroll;
end if;
End;
/
```

Procedure created.

```
SQL> Declare
mmroll number;
Begin
mmroll:=&mmroll;
cal_fine_176(mmroll);
End;
/
Enter value for mmroll: 2
old 4: mmroll:=&mmroll;
new 4: mmroll:=2;
```

```
SQL> Declare
mmroll number;
```

```

Begin
mmroll:=&mmroll;
cal_fine_176(mmroll);
End;
/
Enter value for mmroll: 3
old 4: mmroll:=&mmroll;
new 4: mmroll:=3;

```

PL/SQL procedure successfully completed.

```

SQL> Declare
mmroll number;
Begin
mmroll:=&mmroll;
cal_fine_176(mmroll);
End;
/
Enter value for mmroll: 4
old 4: mmroll:=&mmroll;
new 4: mmroll:=4;

```

PL/SQL procedure successfully completed.

```
SQL> select * from fine_176;
```

ROLL DATE	OF RET	AMOUNT
2	27-APR-23	725
3	27-APR-23	1875
4	27-APR-23	10

**Q2) Write a stored function in PL/SQL for given requirement and use the same in PL/SQL block.**

**Account no. and branch name will be accepted from user. The same will be searched in table acct\_details. If status of account is active then display appropriate message and also store the account details in active\_acc\_details table, otherwise display message on screen "account is inactive".**

```

SQL> create table acct_details(acc_no int, B_name varchar(20), status varchar(20));
Table created.
SQL> insert into acct_details values(11111, 'Akurdi', 'A');

```

1 row created.

```
SQL> insert into acct_details values(12345, 'Nigdi', 'IA');
```

1 row created.

```
SQL> insert into acct_details values(22222, 'Akurdi', 'A');
```

1 row created.

```
SQL> insert into acct_details values(23456, 'Ravet', 'IA');
```

1 row created.

```
SQL> create table active_acc_details(account_no int);
```

Table created.

```
SQL> select * from acct_details;
```

ACC_NO	B_NAME	STATUS
11111	Akurdi	A
12345	Nigdi	IA
22222	Akurdi	A
23456	Ravet	IA

```
SQL> create or replace function active_acc_176(macc_no in number, mb_name in char)
return number is
```

```
    mstatus char(10);
    Begin
        select status into mstatus from acct_details where acc_no=macc_no and
        B_name=mb_name;
        if mstatus = 'A' then
            return 1;
        else
            return 0;
        end if;
    End;
/
```

Function created.

```
SQL> Declare
```

```
    mmacc_no number(10);
    mmb_name char(20);
    mstatus int;
    Begin
        mmacc_no:=&mmacc_no;
        mmb_name:=&mmb_name;
        mstatus:=active_acc_176(mmacc_no, mmb_name);
        if mstatus=1 then
            insert into active_acc_details values(mmacc_no);
        end if;
    End;
/
```

Enter value for mmacc\_no: 11111

old 6: mmacc\_no:=&mmacc\_no;

```
new 6: mmacc_no:=11111;
Enter value for mmb_name: 'Akurdi'
old 7: mmb_name:=&mmb_name;
new 7: mmb_name:='Akurdi';
```

PL/SQL procedure successfully completed.

```
SQL> Declare
mmacc_no number(10);
mmb_name char(20);
mstatus int;
Begin
mmacc_no:=&mmacc_no;
mmb_name:=&mmb_name;
mstatus:=active_acc_176(mmacc_no, mmb_name);
if mstatus=1 then
insert into active_acc_details values(mmacc_no);
end if;
End;
/
Enter value for mmacc_no: 12345
old 6: mmacc_no:=&mmacc_no;
new 6: mmacc_no:=12345;
Enter value for mmb_name: 'Nigdi'
old 7: mmb_name:=&mmb_name;
new 7: mmb_name:='Nigdi';
```

PL/SQL procedure successfully completed.

```
SQL> Declare
mmacc_no number(10);
mmb_name char(20);
mstatus int;
Begin
mmacc_no:=&mmacc_no;
mmb_name:=&mmb_name;
mstatus:=active_acc_176(mmacc_no, mmb_name);
if mstatus=1 then
insert into active_acc_details values(mmacc_no);
end if;
End;
/
Enter value for mmacc_no: 22222
old 6: mmacc_no:=&mmacc_no;
new 6: mmacc_no:=65432;
```

Enter value for mmb\_name: 'Ravet'  
old 7: mmb\_name:=&mmb\_name;  
new 7: mmb\_name:='Ravet';  
PL/SQL procedure successfully completed.

SQL> select \* from active\_acc\_details;  
ACCOUNT\_NO

-----  
11111  
22222

**Q3) Write a Stored Procedure namely proc\_Grade for the categorization of student. If marks scored by students in examination is <=1500 and marks>=990 then student will be placed in distinction category if marks scored are between 989 and 900 category is first class, if marks 899 and 825 category is Higher Second Class**

SQL> create table Result\_176(Roll int, Name varchar(20), Class varchar(20));  
Table created.

SQL> create table Stud\_Marks\_176(name varchar(20), total\_marks int);  
Table created.

SQL> create or replace procedure proc\_grade(mroll in int, mname in varchar, mtotal\_marks in int )

Begin  
select total\_marks into mtotal\_marks from Stud\_Marks\_176 where roll=mroll;  
if mtotal\_marks<=1500 and mtotal\_marks>=990 then  
insert into Result\_176 values(mroll, mname, 'Distinction');  
elsif mtotal\_marks<=989 and mtotal\_marks>=900 then  
insert into Result\_176 values(mroll, mname, 'FirstClass');  
elsif mtotal\_marks<=899 and mtotal\_marks>=825 then  
insert into Result\_176 values(mroll, mname, 'HighSecondClass');  
else  
insert into Result\_176 values(mroll, mname, 'Fail');  
end if;  
End;  
/

Procedure created.

SQL> Declare  
roll int;  
name varchar(20);  
Begin  
roll:=&roll;

```
name:=&name;
proc_grade(roll, name);
End;
/
Enter value for roll: 21
old 5: roll:=&roll;
new 5: roll:=21;
Enter value for name: 'ABC'
old 6: name:=&name;
new 6: name:='ABC';
PL/SQL procedure successfully completed.
```

```
SQL> Declare
roll int;
name varchar(20);
Begin
roll:=&roll;
name:=&name;
proc_grade(roll, name);
End;
/
```

```
Enter value for roll: 22
old 5: roll:=&roll;
new 5: roll:=22;
Enter value for name: 'XYZ'
old 6: name:=&name;
new 6: name:='XYZ';
```

PL/SQL procedure successfully completed.

```
SQL> Declare
roll int;
name varchar(20);
Begin
roll:=&roll;
name:=&name;
proc_grade(roll, name);
End;
/
```

```
Enter value for roll: 33
old 5: roll:=&roll;
new 5: roll:=33;
```

Enter value for name: 'PQR'

old 6: name:=&name;

new 6: name:='PQR';

PL/SQL procedure successfully completed.

SQL> select \* from Result\_176;

ROLL NAME	CLASS
1ABC	Distinction
2XYZ	HigherSecondClass
3 PQR	FirstClass