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## **Assignment No. 6**

### **Title: Stored Procedure Stored Function**

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

1. Borrower(Rollin, Name, DateofIssue, NameofBook, Status)

2. Fine(Roll\_no,Date,Amt)

- Accept roll\_no & name of book from user.
- Check the number of days (from date of issue), if days are between 15 to 30 then fine amount will be Rs 5per day.
- If no. of days>30, per day fine will be Rs 50 per day & for days less than 30, Rs. 5 per day.
- After submitting the book, status will change from I to R.
- If condition of fine is true, then details will be stored into fine table.

SQL> select \* from borrower;

ROLL NAME	DOI	BOOK	S
101 ashwin	03-AUG-19	toc	I
102 hemangi	05-SEP-19	mis	I
103 rutuj	20-AUG-19	CN	I

SQL> set serveroutput on;

SQL> create or replace procedure p61(mroll in number) is

```
2
3   days number(3);
4   mdoi date;
5   mfine number(3);
6 begin
7   select doi into mdoi from borrower where roll=mroll;
8   days:=sysdate-mdoi;
9   if days >=15 and days<=30 then
10      mfine:=days*5;
11      insert into fine values(mroll,mfine);
12      update borrower set status='R' where roll=mroll;
13      dbms_output.put_line(mfine||' charged');
14   elsif days>30 then
15      mfine:=150+(days-30)*50;
16      insert into fine values(mroll,mfine);
17      update borrower set status='R' where roll=mroll;
18      dbms_output.put_line(mfine||' charged');
19   else
20      update borrower set status='R' where roll=mroll;
```

```

21 end if;
22 end;
23 /

```

Procedure created.

```

SQL> set serveroutput on;
SQL> declare
  2  mroll number(3);
  3  begin
  4  mroll:=&mroll;
  5  p61(mroll);
  6  exception
  7  when no_data_found then
  8      dbms_output.put_line(mroll||' not found');
  9  end;
10  /
Enter value for mroll: 101
old 4: mroll:=&mroll;
new 4: mroll:=101;
900 charged

```

PL/SQL procedure successfully completed.

```

SQL> /
Enter value for mroll: 102
old 4: mroll:=&mroll;
new 4: mroll:=102;

```

PL/SQL procedure successfully completed.

```

SQL> /
Enter value for mroll: 103
old 4: mroll:=&mroll;
new 4: mroll:=103;
140 charged

```

PL/SQL procedure successfully completed.

```

SQL> /
Enter value for mroll: 104
old 4: mroll:=&mroll;
new 4: mroll:=104;
104 not found

```

PL/SQL procedure successfully completed.

```

SQL> select * from borrower;

```

ROLL NAME	DOI	BOOK	S
101 ashwin	03-AUG-19	toc	R
102 hemangi	05-SEP-19	mis	R
103 rutuj	20-AUG-19	CN	R

```

SQL> select * from fine;

```

ROLL	AMT
101	900
103	140

2. 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> select * from acc_dets;
```

```
ACNO BRANCH  S
-----
1 akurdi    I
2 dadar     A
3 banglore  I
4 Pune      A
```

```
SQL> select * from active_acc_dets;
```

no rows selected

```
SQL> create or replace function p62(macno in number) return number is
```

```
2
3   mst varchar2(1);
4   mbr varchar2(10);
5
6 begin
7   select status,branch into mst,mbr from acc_dets where acno=macno;
8   if mst='A' then
9       insert into active_acc_dets values(macno,mbr);
10      return 1;
11   else
12       return 0;
13   end if;
14 end;
15
16 /
```

Function created.

```
Enter value for mac: 1
old 5:   mac:=&mac;
new 5:   mac:=1;
Account inactive
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for mac: 2
old 5:   mac:=&mac;
new 5:   mac:=2;
Account active
```

PL/SQL procedure successfully completed.

```
SQL> /3
Enter value for mac: 3
old 5:   mac:=&mac;
new 5:   mac:=3;
Account inactive
```

PL/SQL procedure successfully completed.

```
SQL> /
```

```
Enter value for mac: 4
old 5:      mac:=&mac;
new 5:      mac:=4;
Account active
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for mac: 5
old 5:      mac:=&mac;
new 5:      mac:=5;
5 not found
```

PL/SQL procedure successfully completed.

```
SQL> select * from active_acc_dets;
```

```
ACNO BRANCH
-----
2 dadar
4 Pune
```

**3. Write a Stored Procedure namely proc\_Grade for the categorization of student. If marks scored by students in examination is  $\leq 1500$  and marks  $\geq 990$  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**

**Write a PL/SQL block for using procedure created with above requirement.**

**Stud\_Marks(name, total\_marks)**

**Result(Roll,Name, Class)**

ROLL NAME	MARKS
1 mayuresh	1500
2 ashwin	991
3 supriya	950
4 bhavesh	1200
5 madhav	900
6 ajay	925
7 ram	977
8 rutuj	830
9 akansha	850
10 gaurav	899
11 ashish	825

11 rows selected.

```
SQL> select * from result;
```

no rows selected

```
SQL> set serveroutput on;
```

```
SQL> create or replace procedure p63(mroll in number) is
```

```
2  mmarks number(4);
```

```
3  mname varchar(20);
```

```

4 begin
5   select marks,name into mmarks,mname from stud_marks where roll=mroll;
6   if mmarks<=1500 and mmarks>=990 then
7       insert into result values(mroll,mname,'destinction');
8       dbms_output.put_line('destinction');
9   elsif mmarks<=989 and mmarks>=900 then
10      insert into result values(mroll,mname,'first');
11      dbms_output.put_line('first');
12  elsif mmarks<=899 and mmarks>=825 then
13      insert into result values(mroll,mname,'higher second');
14      dbms_output.put_line('higher second');
15  end if;
16 end;
17 /

```

Procedure created.

```

SQL> set serveroutput on;
SQL> declare
2   mroll number(3);
3   begin
4   mroll:=&mroll;
5   p63(mroll);
6   exception
7   when no_data_found then
8       dbms_output.put_line(mroll||' not found');
9   end;
10 /

```

Enter value for mroll: 1

```

old 4:   mroll:=&mroll;
new 4:   mroll:=1;
destinction

```

PL/SQL procedure successfully completed.

```

SQL> /
Enter value for mroll: 2
old 4:   mroll:=&mroll;
new 4:   mroll:=2;
destinction

```

PL/SQL procedure successfully completed.

```

SQL> /
Enter value for mroll: 3
old 4:   mroll:=&mroll;
new 4:   mroll:=3;
first

```

PL/SQL procedure successfully completed.

```

SQL> /
Enter value for mroll: 4

```

```
old 4:    mroll:=&mroll;
new 4:    mroll:=4;
destinction
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for mroll: 5
old 4:    mroll:=&mroll;
new 4:    mroll:=5;
first
```

PL/SQL procedure successfully completed.

```
SQL> /6
Enter value for mroll: 6
old 4:    mroll:=&mroll;
new 4:    mroll:=6;
first
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for mroll: 7
old 4:    mroll:=&mroll;
new 4:    mroll:=7;
first
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for mroll: 8
old 4:    mroll:=&mroll;
new 4:    mroll:=8;
higher second
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for mroll: 9
old 4:    mroll:=&mroll;
new 4:    mroll:=9;
higher second
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for mroll: 10
old 4:    mroll:=&mroll;
new 4:    mroll:=10;
higher second
```

PL/SQL procedure successfully completed.

SQL> /

Enter value for mroll: 11

old 4: mroll:=&mroll;

new 4: mroll:=11;

higher second

PL/SQL procedure successfully completed.

SQL> /

Enter value for mroll: 12

old 4: mroll:=&mroll;

new 4: mroll:=12;

12 not found

PL/SQL procedure successfully completed.

SQL> select \* from stud\_marks;

ROLL NAME	MARKS
1 mayuresh	1500
2 ashwin	991
3 supriya	950
4 bhavesh	1200
5 madhav	900
6 ajay	925
7 ram	977
8 rutuj	830
9 akansha	850
10 gaurav	899
11 ashish	825

11 rows selected.

SQL> select \* from result;

ROLL NAME	CLASS
1 mayuresh	destinction
2 ashwin	destinction
3 supriya	first
4 bhavesh	destinction
5 madhav	first
6 ajay	first
7 ram	first
8 rutuj	higher second
9 akansha	higher second
10 gaurav	higher second
11 ashish	higher second

11 rows selected.