Assignment 5 SYCOA302 Ritish Shelke

- 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)
- ② Accept roll_no &name of book from user.
- 2 Check the number of days (from date of issue), if days are between 15 to 30 then fine amount will be Rs 5per day.
- 12 If no. of days>30, per day fine will be Rs 50 per day & for days less than 30, Rs. 5 per
- 2 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.

```
Procedure:
create or replace procedure proc_library(mroll in number, mbook in varchar, mfine out
number, issue date out date)
is
       no_of_days number(5);
       today_date date;
begin
       select date_of_issue into issue_date from borrower where roll_no=mroll and
book name=mbook;
       select sysdate into today_date from dual;
       no_of_days:=trunc(today_date)-issue_date;
-- step 2 calculate mfine amount
  IF no of days > 30 THEN
    mfine := 75 + 50 * (no_of_days - 30);
  ELSIF no_of_days > 15 THEN
    mfine:= 5 * (no of days - 15);
  ELSE
    mfine := 0;
  END IF;
dbms_output.put_line('Fine amount to pay : '||mfine);
dbms_output.put_line('Date of book issue : '||issue_date);
-- step 3 change status
update borrower set status='R' where roll no=mroll;
-- step 4 if fine applicable insert into fine table
IF mfine > 0 THEN
       insert into fine (roll_no,f_date,amt) values (mroll,today_date,mfine);
END IF;
end;
```

```
pl/sql block:
```

output:

```
Enter value for mroll: 302
               mroll := &mroll;
old
new
     8:
               mroll := 302;
Enter value for mbook: SE BY PRESSMAN
     9:
               mbook := '&mbook';
old
               mbook := 'SE BY PRESSMAN';
     9:
new
Fine amount to pay: 525
Date of book issue: 01-APR-23
PL/SQL procedure successfully completed.
```

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"

function:

```
create or replace function fun_bank(macc number,mbname varchar)
return number
is
mstatus varchar(10);
begin
select acc_status into mstatus from acc_details where acc_no=macc and b_name=mbname;
```

```
if mstatus='active' then
               return 1;
       elsif mstatus='inactive' then
               return 0;
       end if;
end;
pl/sql block:
declare
       macc acc_details.acc_no%type;
       mbname acc_details.b_name%type;
       ch number(1);
begin
       macc := &macc;
       mbname := '&mbname';
       select acc_no, b_name into macc,mbname from acc_details where acc_no=macc and
b_name=mbname;
       ch := fun bank(macc,mbname);
       if ch=1 then
               dbms output.put line('Account is active');
               insert into active_acc_details values(macc,mbname);
       elsif ch=0 then
               dbms output.put line('Account is not active');
       end if;
end;
```

```
SQL> select * from acc_details;
   ACC_NO B_NAME
                                ACC_STATUS
       101 deccan
                                active
       102 kothrud
                                inactive
      110 akurdi
                                active
       201 pimpri
                                active
       202 deccan
                                inactive
SQL> select * from active_acc_details;
no rows selected
```

```
Enter value for macc: 101
old
                 macc := &macc;
                 macc := 101;
new
Enter value for mbname: deccan
old 8: mbname := '&mbname';
new 8: mbname := 'deccan';
Account is active
PL/SQL procedure successfully completed.
SQL> select * from active_acc_details;
    ACC_NO B_NAME
       101 deccan
```

```
Enter value for macc: 102
                macc := &macc;
      7:
new
                macc := 102;
Enter value for mbname: kothrud
                mbname := '&mbname';
old
      8:
                mbname := 'kothrud';
      8:
Account is not active
PL/SQL procedure successfully completed.
```

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

Stud Marks(name, total marks) Result(Roll, Name, Class)

Procedure:

end;

```
create or replace procedure proc marks(mroll number, mname varchar, mmarks number)
is begin
       if mmarks<=1500 and mmarks >=990 then
               insert into result values (mroll,mname, 'DIST');
       elsif mmarks<=989 and mmarks>=900 then
              insert into result values(mroll,mname,'FC');
       elsif mmarks<=899 and mmarks>=825 then
              insert into result values(mroll,mname,'HSC');
       end if;
end;
pl/sql block:
declare
       mroll result.roll%type;
       mname stud_marks.name%type;
       mmarks stud_marks.total_marks%type;
begin
       mroll := &mroll;
       mname := '&mname';
       mmarks := &mmarks;
       select name,total_marks into mname,mmarks from stud_marks where name=mname and
total_marks=mmarks;
       proc marks(mroll,mname,mmarks);
```

```
      SQL> select * from stud_marks;

      NAME
      TOTAL_MARKS

      ritish
      1325

      saurabh
      850

      pranav
      989

      rahul
      850

      viraj
      1000

      SQL> select * from result;

      no rows selected
```

```
Enter value for mroll: 302
old
      7:
                mroll := &mroll;
                mroll := 302;
      7:
new
Enter value for mname: ritish
old
      8:
                mname := '&mname';
                mname := 'ritish':
      8:
new
Enter value for mmarks: 1325
old
      9:
                mmarks := &mmarks;
      9:
new
                mmarks := 1325;
PL/SQL procedure successfully completed.
```

```
SQL> select * from result;

ROLL NAME CLASS

302 ritish DIST
276 saurabh HSC
```