Practical No 05

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Problem Statement :- Unnamed PL/SQL code blocks:Use of control
structure and exception handling is mandatory.
Write PL/SQL block of code for the following requirements:
Schema:-
1)Borrower(Rollin, Name, DateofIssue, NameofBook, Status)
2)Fine(Roll no, Date, Amt)
    *Accept roll_no & name of the 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 5 per day.
    *If no. of days>30,per day fne 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.
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SOL*Plus: Release 10.2.0.1.0 - Production on Fri Nov 19 22:14:40 2021
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SQL> connect
Enter user-name: system
Enter password:
Connected.
SQL> create table borrower(Rollin NUMBER, Name VARCHAR(20), DateofIssue
VARCHAR(20), NameofBook VARCHAR(20), status VARCHAR(2), PRIMARY
KEY(Rollin));
Table created.
SQL> create table Fine(Roll no NUMBER, Datee DATE, Amt
NUMBER); Table created.
SQL> insert into borrower values(1, 'Asha', '01-Nov-2021', 'ML', 'I');
1 row created.
SQL> insert into borrower values(2, 'Bhushan', '05-Nov-2021', 'AI', 'I');
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1 row created.

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SQL> insert into borrower values(3, 'Sayaji', '10-Nov-2021', 'CNS', 'I');
1 row created.
SQL> insert into borrower values(4, 'Pravin', '15-Nov-2021', 'PPL', 'I');
1 row created.
SQL> select * from borrower;
    ROLLIN NAME
                                DATEOFISSUE
                                                     NAMEOFBOOK
                                                                   ST
         1 Asha
                                01-Nov-2021
                                                     ML
                                                                     Ι
         2 Bhushan
                                05-Nov-2021
                                                     ΑI
                                                                     Ι
                              10-Nov-2021
         3 Sayaji
                                                     CNS
                                                                     Ι
         4 Pravin
                                15-Nov-2021
                                                     PPL
                                                                     Ι
SQL> DECLARE
  2 rno NUMBER(3) := '&Rollin';
  3 bname VARCHAR(20) := '&Book_name';
  4 no days NUMBER(7);
  5 issuedate DATE;
  6 fineamt NUMBER(5) := 0;
  7 BEGIN
  8 select DateofIssue into issuedate from borrower where Rollin = rno;
  9 select sysdate - to date(issuedate) days into no days from dual;
 10 if(no_days >= 15 and no_days <=30) then</pre>
 11 fineamt := no_days * 5;
 12 elsif no days > 30 then
 13 fineamt := no days * 50;
 14 end if;
 15 update borrower set status = 'R' where Rollin = rno;
 16 if fineamt >=0 then
 17 insert into Fine values(rno,sysdate,fineamt);
 18 end if;
 19 EXCEPTION
 20 WHEN no data found THEN
 21 dbms output.put line('Record not found');
 22 END;
 23 /
Enter value for rollin: 1
old
      2: rno NUMBER(3) := '&Rollin';
      2: rno NUMBER(3) := '1';
Enter value for book_name: ML
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old

3: bname VARCHAR(20) :=

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'&Book_name'; new 3: bname VARCHAR(20)
:= 'ML';
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PL/SQL procedure successfully completed.
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SOL> DECLARE
  2 rno NUMBER(3) := '&Rollin';
  3 bname VARCHAR(20) := '&Book name';
  4 no days NUMBER(7);
  5 issuedate DATE;
  6 fineamt NUMBER(5) := 0;
  7 BEGIN
    select DateofIssue into issuedate from borrower where Rollin = rno;
  9 select sysdate - to date(issuedate) days into no days from dual;
 10 if(no days >= 15 and no days <=30) then
 11 fineamt := no days * 5;
 12 elsif no_days > 30 then
 13 fineamt := no_days * 50;
 14 end if;
 15 update borrower set status = 'R' where Rollin = rno;
 16 if fineamt >=0 then
 17 insert into Fine values(rno,sysdate,fineamt);
 18 end if;
 19 EXCEPTION
 20 WHEN no data found THEN
 21 dbms output.put line('Record not found');
 22 END;
 23 /
Enter value for rollin: 3
      2: rno NUMBER(3) := '&Rollin';
old
      2: rno NUMBER(3) := '3';
Enter value for book name: CNS
      3: bname VARCHAR(20) :=
'&Book_name'; new 3: bname VARCHAR(20)
:= 'CNS';
PL/SQL procedure successfully completed.
SQL> select * from Fine;
    ROLLIN DATE1
                           AMT
```

1 20-NOV-21 100 3 20-NOV-21 0