**Practical no 4 :**

declare

r number(20);

bn varchar(50);

amt number(6,2) := 0;

rd DATE;

id DATE;

day number(20);

begin

r := &r;

bn := '&bn';

select DOI into id from Borrower where R\_no = r and NOB = bn and status = '1';

rd := sysdate;

day := rd - id;

if day <= 15 then

amt := 0;

dbms\_output.put\_line('No Fine');

elsif day > 15 and day <= 30 then

amt := (day - 15) \* 5;

else

amt := (15 \* 5)+((day - 30) \* 50);

end if;

UPDATE Borrower set status = 'R' where R\_no = r and NOB = bn;

if amt > 0 then

insert into Fine values(r, rd, amt);

dbms\_output.put\_line('Fine = Rs. ' || amt);

end if;

exception

when no\_data\_found then

dbms\_output.put\_line('No record found or book already returned');

end;

/

**OUTPUT :**

SQL\*Plus: Release 21.0.0.0.0 - Production on Mon Sep 29 22:58:19 2025

Version 21.3.0.0.0

Copyright (c) 1982, 2021, Oracle. All rights reserved.

Enter user-name: system

Enter password:

Last Successful login time: Mon Sep 29 2025 20:24:49 +05:30

Connected to:

Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production

Version 21.3.0.0.0

SQL> create table Borrower(R\_no int,B\_name varchar(50),DOI DATE,NOB varchar(50),Status char(1));

Table created.

SQL> select sysdate from dual;

SYSDATE

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29-SEP-25

SQL> desc Borrower;

Name Null? Type

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R\_NO NUMBER(38)

B\_NAME VARCHAR2(50)

DOI DATE

NOB VARCHAR2(50)

STATUS CHAR(1)

SQL> alter table Borrower add PRIMARY KEY(R\_no);

Table altered.

SQL> insert into Borrower(R\_no,B\_name,DOI,NOB,status) values(&R\_no,'&B\_name','&DOI','&NOB','&status');

Enter value for r\_no: 13120

Enter value for b\_name: Harry

Enter value for doi: 05-JAN-25

Enter value for nob: Edward

Enter value for status: 1

old 1: insert into Borrower(R\_no,B\_name,DOI,NOB,status) values(&R\_no,'&B\_name','&DOI','&NOB','&status')

new 1: insert into Borrower(R\_no,B\_name,DOI,NOB,status) values(13120,'Harry','05-JAN-25','Edward','1')

1 row created.

SQL> insert into Borrower(R\_no,B\_name,DOI,NOB,status) values(&R\_no,'&B\_name','&DOI','&NOB','&status');

Enter value for r\_no: 13123

Enter value for b\_name: Lucky

Enter value for doi: 22-Jul-25

Enter value for nob: 85NOP

Enter value for status: 1

old 1: insert into Borrower(R\_no,B\_name,DOI,NOB,status) values(&R\_no,'&B\_name','&DOI','&NOB','&status')

new 1: insert into Borrower(R\_no,B\_name,DOI,NOB,status) values(13123,'Lucky','22-Jul-25','85NOP','1')

1 row created.

SQL> insert into Borrower values(1102,'Arcot','10-Aug-25','Thinking out Loud','1');

1 row created.

SQL> create table Fine(R\_no Int,ret\_date DATE,Amt Number(6,2));

Table created.

SQL> select \* from Borrower;

R\_NO B\_NAME DOI

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NOB S

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13120 Harry 05-JAN-25

Edward 1

13123 Lucky 22-JUL-25

85NOP 1

1102 Arcot 10-AUG-25

Thinking out Loud 1

SQL> insert into Fine values(1101,'25-Jun-25',200);

1 row created.

SQL> insert into Fine values(1102,'28-Jul-25',500);

1 row created.

SQL> insert into Fine values(1103,'30-Aug-25',100);

1 row created.

SQL> set serveroutput on;

SQL> select \* from Fine;

R\_NO RET\_DATE AMT

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1101 25-JUN-25 200

1102 28-JUL-25 500

1103 30-AUG-25 100

SQL> @C:\Users\saksh\OneDrive\Desktop\Dbms\Book.sql;

Enter value for r: 1101

old 9: r := &r;

new 9: r := 1101;

Enter value for bn: Harry

old 10: bn := '&bn';

new 10: bn := 'Harry';

No record found or book already returned

PL/SQL procedure successfully completed.

SQL> @C:\Users\saksh\OneDrive\Desktop\Dbms\Book.sql;

Enter value for r: 13120

old 9: r := &r;

new 9: r := 13120;

Enter value for bn: Harry

old 10: bn := '&bn';

new 10: bn := 'Harry';

No record found or book already returned

PL/SQL procedure successfully completed.

SQL> @C:\Users\saksh\OneDrive\Desktop\Dbms\Book.sql;

Enter value for r: 13123

old 9: r := &r;

new 9: r := 13123;

Enter value for bn: Lucky

old 10: bn := '&bn';

new 10: bn := 'Lucky';

No record found or book already returned

PL/SQL procedure successfully completed.

SQL> select \* from Fine;

R\_NO RET\_DATE AMT

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1101 25-JUN-25 200

1102 28-JUL-25 500

1103 30-AUG-25 100

SQL> select \* from Borrower;

R\_NO B\_NAME DOI

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NOB S

-------------------------------------------------- -

13120 Harry 05-JAN-25

Edward 1

13123 Lucky 22-JUL-25

85NOP 1

1102 Arcot 10-AUG-25

Thinking out Loud 1

SQL>