**Assignment No 04**

**PL/SQL Library\_Management**  
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 18:55:54 2025

Version 21.3.0.0.0

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Enter user-name: system

Enter password:

Last Successful login time: Mon Sep 29 2025 18:55:47 +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;

alter table Borrower add PRIMARY KEY R\_no

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ERROR at line 1:

ORA-00906: missing left parenthesis

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: 1101

Enter value for b\_name: Edward

Enter value for doi: 01-Jun-25

Enter value for nob: Harry Potter

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(1101,'Edward','01-Jun-25','Harry Potter','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: 1103

Enter value for b\_name: Lucy

Enter value for doi: 22-Jul-25

Enter value for nob: 48LOP

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(1103,'Lucy','22-Jul-25','48LOP','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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1101 Edward 01-JUN-25

Harry Potter 1

1103 Lucy 22-JUL-25

48LOP 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,'22-Aug-25',100);

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 22-AUG-25 100

1103 30-AUG-25 100

SQL> @C:\Users\ASUS\Desktop\DBMS\_Practs\PLSQL\Book.sql

Enter value for r: 1101

old 9: r := &r;

new 9: r := 1101;

Enter value for bn: Harry Potter

old 10: bn := '&bn';

new 10: bn := 'Harry Potter';

Fine = Rs. 4625

PL/SQL procedure successfully completed.

SQL> @C:\Users\ASUS\Desktop\DBMS\_Practs\PLSQL\Book.sql

Enter value for r: 1102

old 9: r := &r;

new 9: r := 1102;

Enter value for bn: Thinking out Loud

old 10: bn := '&bn';

new 10: bn := 'Thinking out Loud';

Fine = Rs. 1125

PL/SQL procedure successfully completed.

SQL> @C:\Users\ASUS\Desktop\DBMS\_Practs\PLSQL\Book.sql

Enter value for r: 1103

old 9: r := &r;

new 9: r := 1103;

Enter value for bn: 48LOP

old 10: bn := '&bn';

new 10: bn := '48LOP';

Fine = Rs. 2075

PL/SQL procedure successfully completed.

SQL> select \* from Fine;

R\_NO RET\_DATE AMT

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1101 25-JUN-25 200

1102 22-AUG-25 100

1103 30-AUG-25 100

1101 29-SEP-25 4625

1102 29-SEP-25 1125

1103 29-SEP-25 2075

6 rows selected.

SQL> select \* from Borrower;

R\_NO B\_NAME DOI

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NOB S

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1101 Edward 01-JUN-25

Harry Potter R

1103 Lucy 22-JUL-25

48LOP R

1102 Arcot 10-AUG-25

Thinking out Loud R

SQL>