

```

1  DBMSL Assignment No 4
2  Name - Himanshu Vijay Lonkar
3  Roll No - C31149
4  Batch - T3
5
6  Program:-
7
8      create table Borrower(Roll_no int,SName varchar(90),Date_of_Issue date,BName
9      varchar(90),Status varchar(10));
10     desc Borrower;
11     insert into Borrower values(1,'ABC','14-November-2022','Wings of Fire','I');
12     insert into Borrower values(2,'PQR','12-December-2022','The Magic Tree','I');
13     insert into Borrower values(3,'LMN','01-January-2023','Wizard of Ice','I');
14     insert into Borrower values(4,'EFG','05-May-2023','Weep of History','I');
15     insert into Borrower values(5,'XYZ','09-September-2023','Call of the Forest','I');
16
17     create table Fine(Roll_no int,CDate date,Amt float);
18     desc Fine;
19
20     Declare
21         DOI Borrower.Date_of_Issue%type;
22         rn Borrower.Roll_no%type :=5;
23         name Borrower.BName%type :='Call of the Forest';
24         date_diff int;
25         invalid_rn exception;
26         fine float;
27
28     Begin
29         If rn<=0 then
30             Raise invalid_rn;
31         End If;
32
33         select Date_of_Issue into DOI from Borrower where Roll_no=rn and BName=name;
34         date_diff := sysdate-DOI;
35
36         If date_diff>15 and date_diff<30 then
37             fine := ((date_diff-15)*5);
38         End If;
39
40         If date_diff>30 then
41             fine := (15*5)+((date_diff-30)*50);
42
43         End If;
44         If Fine>0 then
45             insert into fine values(rn,sysdate,fine);
46         End if;
47
48         update Borrower set Status = 'R' where Roll_no=rn and BName=name;
49
50     Exception
51
52         When invalid_rn Then dbms_output.put_line('Invalid Roll Number');
53         When No_Data_Found Then dbms_output.put_line('No data Found');
54         When Too_Many_Rows Then dbms_output.put_line('Too Many Rows(Duplication)');
55         When others Then dbms_output.put_line('Error');
56
57     End;
58
59     select * from Fine;
60     select * from Borrower;
61
62     Output:-
63
64     1.Data in the Borrower Table and Fine table.
65
66     TABLE BORROWER
67     Column Null? Type
68     ROLL_NO - NUMBER

```

```

69 SNAME - VARCHAR2(90)
70 DATE_OF_ISSUE - DATE
71 BNAME - VARCHAR2(90)
72 STATUS - VARCHAR2(10)
73
74 ROLL_NO SNAME DATE_OF_ISSUE BNAME STATUS
75 1 ABC 14-NOV-22 Wings of Fire I
76 2 PQR 12-DEC-22 The Magic Tree I
77 3 LMN 01-JAN-23 Wizard of Ice I
78 4 EFG 05-MAY-23 Weep of History I
79 5 XYZ 09-SEP-23 Call of the Forest I
80
81 TABLE FINE
82 Column Null? Type
83 ROLL_NO - NUMBER
84 CDATE - DATE
85 AMT - FLOAT(126)
86
87

```

2.For Roll no =1

```

Statement processed.
select * from Fine;

```

```

ROLL_NO CDATE AMT
1 19-SEP-23 14075

```

```

select * from Borrower;

```

```

ROLL_NO SNAME DATE_OF_ISSUE BNAME STATUS
1 ABC 14-NOV-22 Wings of Fire R
2 PQR 12-DEC-22 The Magic Tree I
3 LMN 01-JAN-23 Wizard of Ice I
4 EFG 05-MAY-23 Weep of History I
5 XYZ 09-SEP-23 Call of the Forest I

```

3.For Roll no =5

```

Statement processed.
select * from Fine;

```

```

ROLL_NO CDATE AMT
1 19-SEP-23 14075

```

```

select * from Borrower;

```

```

ROLL_NO SNAME DATE_OF_ISSUE BNAME STATUS
1 ABC 14-NOV-22 Wings of Fire R
2 PQR 12-DEC-22 The Magic Tree I
3 LMN 01-JAN-23 Wizard of Ice I
4 EFG 05-MAY-23 Weep of History I
5 XYZ 09-SEP-23 Call of the Forest R

```

4. For Roll no =3

```

Statement processed.
select * from Fine;

```

```

ROLL_NO CDATE AMT
1 19-SEP-23 14075
3 19-SEP-23 11675

```

```

select * from Borrower;

```

```

ROLL_NO SNAME DATE_OF_ISSUE BNAME STATUS
1 ABC 14-NOV-22 Wings of Fire R
2 PQR 12-DEC-22 The Magic Tree I
3 LMN 01-JAN-23 Wizard of Ice R
4 EFG 05-MAY-23 Weep of History I

```

```

138      5      XYZ      09-SEP-23      Call of the Forest  R
139
140  5. For Invalid Roll No=-3.
141
142      Statement processed.
143      Invalid Roll Number
144
145  6. For Roll no =4
146
147      Statement processed.
148      select * from Fine;
149
150      ROLL_NO CDATE      AMT
151      1      19-SEP-23    14075
152      3      19-SEP-23    11675
153      4      19-SEP-23    5475
154
155      select * from Borrower;
156
157      ROLL_NO SNAME      DATE_OF_ISSUE  BNAME      STATUS
158      1      ABC      14-NOV-22    Wings of Fire      R
159      2      PQR      12-DEC-22    The Magic Tree      I
160      3      LMN      01-JAN-23    Wizard of Ice      R
161      4      EFG      05-MAY-23    Weep of History      R
162      5      XYZ      09-SEP-23    Call of the Forest  R

```