

ASSIGNMENT NO: 4

AIM: unnamed PL/SQL code block: use of structure and Exception handling is mandatory.

suggested problem statement: consider tables:

1.Borrower(Roll_no,Name,Dateofissue,nameofBook,status) 2.fine(Roll_no,date,amt)

Accept Roll_no and nameofbook from user. check

the number of days(from date of issue).

if days are between 15 to 30 then fine amount will be Rs5 per day

if no. of days>30,per day fine will be Rs50 per day and 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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SQL> connect

Enter user-name: System

Enter password:

Connected.

SQL> create table Lib(roll_no number(10),name varchar2(20),date_of_issue date,name_of_book varchar2(25),status varchar2(18));

Table created.

SQL> insert into Lib values(1,'Kriss','28-july-2024','DBMS','return');

1 row created.

SQL> insert into Lib values(2,'rohit','20-july-2024','CNS','nonreturn'); 1

row created.

SQL> insert into Lib values(3,'jay','16-july-2024','FDS','return');

1 row created.

SQL> insert into Lib values(4,'vivek','30-july-2024','JAVA','nonreturn'); 1

row created.

SQL> insert into Lib values(5,'omkar','2-july-2024','C++','nonreturn');

1 row created.

SQL> insert into Lib values(6,'Rohan','2-August-2024','CG','return');

1 row created.

SQL> insert into Lib values(7,'Avi','12-August-2024','CG','nonreturn');

1 row created.

SQL> select * from Lib;

ROLL_NO	NAME	DATE_OF_I	NAME_OF_BOOK	STATUS
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1	Kriss	28-JUL-24	DBMS	return
2	rohit	20-JUL-24	CNS	nonreturn
3	jay	16-JUL-24	FDS	return

ROLL_NO	NAME	DATE_OF_I	NAME_OF_BOOK	STATUS
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4	vivek	30-JUL-24	JAVA	nonreturn
5	omkar	02-JUL-24	C++	nonreturn
6	Rohan	02-AUG-24	CG	return

ROLL_NO	NAME	DATE_OF_I	NAME_OF_BOOK	STATUS
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7	Avi	12-AUG-24	CG	nonreturn
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7 rows selected.

SQL> create table fine4(roll_no number(10),date_of_return date,amount number(13));

Table created.

```
SQL> insert into fine4 values(1,'25-August-2024',250); 1
```

row created.

```
SQL> insert into fine4 values(2,'3-August-2024',150); 1
```

row created.

```
SQL> insert into fine4 values(3,'29-August-2024',350);
```

1 row created.

```
SQL> insert into fine4 values(4,'29-sep-2024',350);
```

1 row created.

```
SQL> select * from fine4;
```

ROLL_NO	DATE_OF_R	AMOUNT
1	25-AUG-24	250
2	03-AUG-24	150
3	29-AUG-24	350
4	29-SEP-24	350

```
SQL> declare
```

```
2   rno number(8):=&roll_no;
```

```
3   bname varchar2(15):='&name_of_book';
```

```
4   no_day number(10);
```

```
5   issue_date date;
```

```
6   fine4amt number(5):=0;
```

```
7   begin
```

```
8   select date_of_issue into issue_date from Lib where roll_no=rno;
```

```
9   select sysdate-to_date(issue_date)days into no_day from dual;
```

```

10  if(no_day>=15 and no_day<=30)then
11  fine4amt:=no_day*5;
12  elsif no_day>30 then
13  fine4amt:=no_day*50;
14  end if;
15  update Lib set status='return'where roll_no=rno;
16  if fine4amt>0 then
17  insert into fine4 values(rno,sysdate,fine4amt);
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 roll_no: 3 old 2: rno

number(8):=&roll_no; new 2: rno number(8):=3;

Enter value for name_of_book: FDS old 3: bname

varchar2(15):=&name_of_book'; new 3: bname

varchar2(15):='FDS';

PL/SQL procedure successfully completed.

SQL> select * from fine4;

ROLL_NO	DATE_OF_R	AMOUNT
1	25-AUG-24	250
2	03-AUG-24	150

3 29-AUG-24 350

4 29-SEP-24 350

3 14-OCT-24 4550

SQL> select * from Lib;

ROLL_NO	NAME	DATE_OF_I	NAME_OF_BOOK	STATUS
1	Kriss	28-JUL-24	DBMS	return
2	rohit	20-JUL-24	CNS	nonreturn
3	jay	16-JUL-24	FDS	return

ROLL_NO	NAME	DATE_OF_I	NAME_OF_BOOK	STATUS
4	vivek	30-JUL-24	JAVA	nonreturn
5	omkar	02-JUL-24	C++	nonreturn
6	Rohan	02-AUG-24	CG	return

ROLL_NO	NAME	DATE_OF_I	NAME_OF_BOOK	STATUS
7	Avi	12-AUG-24	CG	nonreturn

7 rows selected.