**Name –Tambekar Shraddha Roll No – C32269 Class – TE Div:2**

**Batch – T8 Subject - DBMS**

**Assignment No – 4**

**problem statement:** **Consider Tables:**

**1. Borrower(Roll\_no, Name, Date of Issue, Name of Book, Status)**

**2. Fine(Roll\_no, Date, Amt) Accept Roll\_no and Name of 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 5per day. If no. of days>30, per day fine will be Rs 50 per day and for days less than 30, Rs. 5 perday. 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. Also handles the exception by named exception handler or user define exception handler**

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**Consider Tables:**

**1. Borrower (Roll no, Name, DateofIssue, NameofBook, Status)**

SQL> CREATE TABLE borrower\_t7(roll\_no int, name varchar(20), date\_of\_i date, b\_name varchar(20), status varchar(10));

SQL>desc borrower\_t7;

|  |  |  |
| --- | --- | --- |
| Column | Null? | Type |
| ROLL | - | NUMBER |
| NAME | - | VARCHAR2(20) |
| DATE\_OF\_I | - | DATE |
| B\_NAME | - | VARCHAR2(20) |
| STATUS | - | VARCHAR2(10) |

**2. Fine (Roll\_no, Date, Amt)**

SQL>CREATE TABLE fine\_t7(roll\_no int, date\_of\_fine date, amt int);

SQL>desc fine\_t7;

|  |  |  |
| --- | --- | --- |
| Column | Null? | Type |
| ROLL | - | NUMBER |
| SYS\_DATE | - | DATE |
| FINE\_AMT | - | NUMBER |

SQL> insert into borrower\_t7 values(1,'harsh','12-06-2017','harry potter','i'); 1 row created.

SQL> insert into borrower\_t7 values(2,'sandesh','15-06-2017','iceage','r');

1 row created.

SQL> select \* from borrower\_t7;

+----------+---------+-----------+-------------+-------+

| Roll\_NO | Name | date\_of\_i | b\_name | status|

+----------+---------+-----------+-------------+-------+

| 1 | harsh | 12-06-17 | harry potter| i |

| 2 | sandesh | 12-06-17 | iceage | r |

+----------+---------+-----------+-------------+-------+

SQL> insert into borrower\_t7 values(3,'Rahul','25-07-2017','pokemon','i'); 1 row created.

SQL> insert into borrower\_t7 values(4,'sarvesh','20-04-2017','duel','r');

1 row created.

SQL> insert into borrower\_t7 values(5,'ishwari','22-05-2017','hindikatha','i');

1 row created.

SQL> select \* from borrower\_t7;

+---------+----------+--------------+--------------+--------+

| ROLL\_NO | NAME | DATE\_OF\_I | NAME\_OF\_BOOK | STATUS |

+---------+----------+--------------+--------------+--------+

| 1 | harsh | 12-06-17 | harry potter | i |

| 2 | sandesh | 15-06-17 | iceage | r |

| 3 | Rahul | 25-07-17 | pokemon | i |

| 4 | sarvesh | 20-04-17 | duel | r |

| 5 | ishwari | 22-05-17 | hindikatha | i |

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declare

roll int:=&roll\_number;

b\_name varchar(20):='&bookname';

mdays int:=0; ndays date; fine\_amt int:=0; begin

select date\_of\_i into ndays from borrower\_t7 where roll\_no=roll and name\_of\_book=b\_name; mdays:=sysdate-ndays; if mdays>=15 and mdays<30 then fine\_amt:=(mdays-15)\*5; elsif mdays>=30 then fine\_amt:=15\*5+(mdays-30)\*50; end if;

update borrower\_t7 set status='r' where roll\_no=roll and name\_of\_book=b\_name; if fine\_amt>0 then

insert into fine\_t7 values(roll,sysdate,fine\_amt); end if; exception

when no\_data\_found then dbms\_output.put\_line('No data found'); when others then

dbms\_output.put\_line('Exception occurred'); end;

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SQL>select \* from fine\_t7;

+---------+---------------+-----+

| ROLL\_NO | DATE\_OF\_fine | AMT |

|---------|---------------|-----|

| 3 | 23-08-17 | 75 |

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SQL> select \* from borrower\_t7;

+---------+----------+--------------+--------------+--------+

| ROLL\_NO | NAME | DATE\_OF\_I | NAME\_OF\_BOOK | STATUS |

|---------|----------|--------------|--------------|--------|

| 1 | harsh | 12-06-17 | harry potter | i |

| 2 | sandesh | 15-06-17 | iceage | r |

| 3 | Rahul | 25-07-17 | pokemon | r |

| 4 | sarvesh | 20-04-17 | duel | r |

| 5 | ishwari | 22-05-17 | hindikatha | i |

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