Assignment 4

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Problem Statement

Borrower(Roll\_no, Name, DateofIssue, NameofBook, Status)

Fine(Roll\_no,Date,Amt)   
Accept roll\_no & 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 & 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. Also handles the exception by named exception handler or user define exception

create database library;

use library;

create table borrower(rollno int primary key,name varchar(20),dateofissue date,nameofbook varchar(20),status varchar(20));

create table fine(rollno int,foreign key(rollno) references borrower(rollno),returndate date, amount int);

insert into borrower values(1,'abc','2021-06-01','SE','I'),(2,'xyz','2021-05-01','OOP','I'),(3,'pqr','2021-06-15','DBMS','I'),(4,'def','2021-06-30','DSA','I'),(5,'lmn','2021-07-05','CN','I');

delimiter $

create procedure calc\_fine\_lib(in roll int)

begin

declare fine1 int;

declare noofdays int;

declare issuedate date;

declare exit handler for SQLEXCEPTION select 'create table definition';

select dateofissue into issuedate from borrower where rollno=roll;

select datediff(curdate(),issuedate) into noofdays;

if noofdays>15 and noofdays<=30 then

set fine1=noofdays\*5;

insert into fine values(roll,curdate(),fine1);

elseif noofdays>30 then

set fine1=((noofdays-30)\*50) + 30\*5;

insert into fine values(roll,curdate(),fine1);

else

insert into fine values(roll,curdate(),0);

end if;

update borrower set status='R' where rollno=roll;

end $

delimiter ;

call calc\_fine\_lib(1);

call calc\_fine\_lib(2);

call calc\_fine\_lib(3);

call calc\_fine\_lib(4);

call calc\_fine\_lib(5);

select distinct \* from fine;

