PRACT 4&5

Unnamed PL/SQLcode block: Use of Control structure and Exception handling is mandatory. Suggested Problem statement:

mysql -u root -p

create database Practical4;

use Practical4;

create table Borrower(Roll\_no int primary key , BName varchar(20) , Dateofissue date, NameofBook varchar(30) , Status char(1));

insert into Borrower values(31 , "rohan" , '2023-8-01' , "DBMS" , 'I');

insert into Borrower values(08 , "Anuj" , '2023-7-23' , "java" , 'I');

insert into Borrower values(32 , "azhar" , '2023-8-26' , "Python" , 'I');

insert into Borrower values(16 , "vivek" , '2023-8-25' , "Cpp" , 'I');

select \* from Borrower;

create table Fine(Roll\_no int , CurrDate date , Amt int);

select \* from Fine;

DELIMITER $

CREATE PROCEDURE calfine(Rollno INT, Bname1 VARCHAR(30))

BEGIN

DECLARE Idate DATE;

DECLARE fine INT;

DECLARE day INT;

SELECT Dateofissue INTO Idate FROM Borrower WHERE Roll\_no = Rollno AND Bname = Bname1;

SET day = DATEDIFF(CURDATE(), Idate);

IF (day >= 15 AND day <= 30) THEN

SET fine = day \* 5;

ELSEIF (day > 30) THEN

SET fine = day \* 50;

END IF;

UPDATE Borrower SET Status = 'R' WHERE Roll\_no = Rollno AND Bname = Bname1;

IF (fine IS NOT NULL) THEN

INSERT INTO Fine VALUES (Rollno, CURDATE(), fine);

END IF;

END $

DELIMITER ;

CALL calfine(8, "Anuj");

SELECT \* FROM Fine;

SELECT \* FROM Borrower;