

## Assignment 4

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 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 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 handler.

```
mysql> CREATE DATABASE Pratik;
```

```
Query OK, 1 row affected (0.03 sec)
```

```
mysql> USE Pratik;
```

```
Database changed
```

```
mysql> CREATE TABLE Borrower(roll_no int,name varchar(20),DOI  
date,book_name varchar(20),status varchar(20));
```

```
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> INSERT INTO Borrower VALUES(1,'Pratik',2024-07-  
01,'DBMS','issued');
```

```
ERROR 1292 (22007): Incorrect date value: '2016' for column 'DOI' at row  
1
```

```
mysql> INSERT INTO Borrower VALUES(1,'Pratik','2024-07-  
01','DBMS','issued');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO Borrower VALUES(2,'Ashok','2024-06-  
01','OOP','issued');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO Borrower VALUES(3,'Onkar','2024-05-  
01','TOC','returned');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO Borrower VALUES(4,'Suraj','2024-06-  
15','CNS','returned');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO Borrower VALUES(5,'Sarathak','2024-05-  
15','SPM','issued');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> SELECT * FROM Borrower;
```

roll_no	name	DOI	book_name	status
1	Pratik	2024-07-01	DBMS	issued
2	Ashok	2024-06-01	OOP	issued
3	Onkar	2024-05-01	TOC	returned
4	Suraj	2024-06-15	CNS	returned
5	Sarathak	2024-05-15	SPM	issued

```
5 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE Fine(roll_no int,fine_date date,amount varchar(20));
```

Query OK, 0 rows affected (0.04 sec)

```
mysql> SHOW TABLES;
```

```
+-----+
| Tables_in_pratik |
+-----+
| borrower          |
| fine              |
+-----+
```

2 rows in set (0.02 sec)

```
mysql> delimiter //
```

```
mysql> create procedure fine_c(IN rno int(3),bname varchar(20))
```

```
-> begin
```

```
-> declare i_date date;
```

```
-> declare diff int;
```

```
-> declare fine_amt int;
```

```
-> declare exit handler for sqlexception select 'Table not Found';
```

```
-> select DOI into i_date from borrower where roll_no=rno and
```

```
book_name=
```

```
bname;
```

```
-> select datediff(curdate(),i_date) into diff;
```

```
-> if(diff>15 and diff<=30) then
```

```
-> set fine_amt = diff*5;
```

```
-> insert into fine values(rno,curdate(),fine_amt);
```

```
-> elseif(diff>30) then
```

```
-> set fine_amt = 15*5 + (diff-30)*50;
```

```
-> insert into fine values(rno,curdate(),fine_amt);
```

```
-> end if;
```

```
-> update borrower set status='returned' where rollno=rno and
```

```
book_name=bname;
```

```
-> end;
```

```
-> //
```

Query OK, 0 rows affected, 1 warning (0.01 sec)

```
mysql> call fine_c(1,'DBMS');//
```

1 row in set (0.01 sec)

```
mysql> select * from fine;
```

```
-> //
```

```
+-----+-----+-----+
| roll_no | fine_date | amount |
+-----+-----+-----+
|        1 | 2024-08-01 | 125    |
+-----+-----+-----+
```

1 rows in set (0.00 sec)