Group A - 5

Problem Statement:

Unnamed PL/SQL code block: Use of Control structure and Exception handling is mandatory. Write a PL/SQL block of code for the following requirements:-Schema:

- 1. Borrower(Rollin, Name, DateofIssue, NameofBook, Status)
- 2. 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.

1.Create Database

mysql> desc Borrower info;

+ Field +	+ Type +	Null	Key	 Default 	Extra
Rollin Name DateofIssue NameofBook Status	int(11) varchar(20) date varchar(100) varchar(10)	YES YES YES YES YES YES	 	NULL NULL NULL NULL	

mysql> desc Fine manager;

Field	+ Type +	Null	Кеу	Default	Extra
RollNo	int(11) date double	YES YES YES		NULL NULL NULL	

2.Create Procedure

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mysql> delimiter //
```

mysql> create procedure calc_Fine(IN RollNo int, IN BookName varchar(100))

- -> begin
- -> declare exit handler for not found select 'Enter appropriate
 information';
 - -> set @datediff=0;
 - -> set @fineamt=0;
- -> select datediff(curdate(),DateofIssue) from Borrower_info where
 Rollin=RollNo
 - and NameofBook=BookName into @datediff;
 - -> if @datediff >15 and @datediff <=30 then set @fineamt =

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(@datediff-15) *5;
   -> elseif @datediff >30 then set @fineamt =
((15*5) + (@datediff-30)*50);
   -> else set @fineamt=0;
   -> end if;
   -> update Borrower info set Status="R" where Rollin=RollNo and
      NameofBook=BookName;
   -> insert into Fine manager values(RollNo, curdate(), @fineamt);
   -> end//
mysql> select * from Borrower info;
+----+
| Rollin | Name | DateofIssue | NameofBook
                                                      | Status |
101 | Amit | 2017-09-01 | Hobbit:TFOR | I

102 | Suraj | 2017-08-25 | Clash of Kings | I

103 | Nikhil | 2017-08-05 | The Man With Qualities | I

104 | Akshay | 2017-08-17 | Entrepreneurship | I
mysql> select * from Fine manager;
Empty set (0.00 sec)
3. Handling Exception here
mysql> call calc Fine (1001, "Hobbit");
+----+
| Enter appropriate information |
+----+
| Enter appropriate information |
4.Call to Procedure
mysql> call calc Fine(101, "Hobbit:TFOR");
mysql> call calc Fine(102, "Clash of Kings");
mysql> call calc Fine(103, "The Man With Qualities");
mysql> call calc Fine(104,"Entrepreneurship");
mysql> select * from Borrower info;
| Rollin | Name | DateofIssue | NameofBook
101 | Amit | 2017-09-01 | Hobbit:TFOR | R

102 | Suraj | 2017-08-25 | Clash of Kings | R

103 | Nikhil | 2017-08-05 | The Man With Qualities | R

104 | Akshay | 2017-08-17 | Entrepreneurship | R
```

mysql> select * from Fine_manager;

+-		+-		+-		+
	RollNo		Date		Amount	
+-		+-		+-		+
	101		2017-09-16		0	
	102		2017-09-16		35	
	103		2017-09-16		675	
	104		2017-09-16		75	
- 1						