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## Assignment No:03

### 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, Dateofreturn)
2. Fine(Roll\_no,name,status,fine)

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Accept roll\_no & name of book from user.

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Check the number of days (from date of issue), if days are between 15 to 30 then fine amount will be Rs 5 per day.

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If no. of days>30, per day fine will be Rs 50 per day & for days less than 30, Rs. 5 per day.

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After submitting the book, status will change from I to R.

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If condition of fine is true, then details will be stored into fine table.  
Frame the problem statement for writing PL/SQL block inline with above statement.

### Output:

```
mysql> use proc1_153;
```

```
Database changed  
mysql> show tables;
```

```
file name : proc11_153.sql  
//code for trigger
```

```
Delimiter $$  
create trigger proc1  
before insert on borrower  
for each row  
Begin  
insert into fine(rno,name,status) values (new.rno,new.name,'I');  
end $$  
Delimiter ;
```

### Run trigger :

```
mysql> source /home/student/proc_142.sql;  
Query OK, 0 rows affected (0.17 sec)
```

**file name: proc33\_fine.sql;**

**//code fro procedure**

Delimiter \$\$

```
create procedure fine_amt(IN r int,IN n varchar(10),IN dr Date)
begin
declare temp date;
declare day int;
update borrower set dor=dr where rno=r and name=n;
select doi into temp from borrower where rno=r and name=n;
set day=DATEDIFF(dr,temp);
if(day>30) then
update fine set fine=50 where rno=r and
name=n; update fine set status='R' where rno=r
and name=n; elseif (day>=15 and day<=30) then
update fine set fine=5 where rno=r and
name=n; update fine set status='R' where
rno=r and name=n; elseif (day<30) then
update fine set fine=5 where rno=r and name=n;
update fine set status='R' where rno=r and name=n;
```

END IF;

END \$\$

Delimiter ;

run procedure :

```
mysql> source /home/student/proc_fine.sql;
Query OK, 0 rows affected (0.20 sec)
```

```
mysql> select *from borrower;
```

rno	name	doi	dor
10	111	2022-10-12	2022-10-16
11	23	2022-03-12	2023-04-13
12	24	2023-01-07	2023-02-28
13	14	2022-02-04	2022-02-16
15	ishwri	2022-03-05	2022-04-27
16	aditi	2023-01-02	2023-01-17

6 rows in set (0.00 sec)

calling procedure :

```
mysql> call fine_amt(16,'aditi','2023-01-17');
Query OK, 1 row affected (0.16 sec)
```

so, when we select rno=16 then it will display amount of fine and also status of book;

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

rno	name	status	fine
3	112	NULL	NULL
10	111	R	0
11	23	R	1000
12	24	R	1000
13	14	R	20
15	ishwri	R	1000
16	aditi	R	5

7 rows in set (0.00 sec)