Group A: Lab Assignment No. 4

TITLE: 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.

Frame the problem statement for writing PL/SQL block inline with above statement.

---

mysql> use Abhi;

Reading table information for completion of table and column
names You can turn off this feature to get a quicker startup with -A

Database changed

mysql> delimiter //

mysql> call B1(1,'TOC') //

```
+------------+
| NOT FOUND |
+ ---------- +| NOT FOUND |
+------------+
```

1 row in set (0.35 sec)

Query OK, 0 rows affected (0.41 sec)

mysql> select * from Borrower;
-> //
+----------+-----------+-------------+------------+-----------+
| roll_no | name
| DOI
| book_name | status
|
+----------+-----------+-------------+------------+-----------+
12	patel	2018-07-01	xyz	issued
14	shinde	2018-06-01	oop	issued
16	bhangale	2018-05-01	coa	returned
18	rebello	2018-06-15	toc	returned
20	patil	2018-05-15	mp	issued
+----------+-----------+-------------+------------+-----------+
5 rows in set (0.00 sec)
mysql> show tables;
-> //
+-----------------+
| Tables_in_Abhi |
+-----------------+
| Borrower |
| Employee |
| Fine |
| TE |
| _master |
| auto |
| c_master |
| capital || customer |
| orders |
| person |
| product_master |
| state
|
+-----------------+
13 rows in set (0.00 sec)

mysql> create procedure B(roll_new int,book_name varchar(20))
-> begin
-> declare X integer;
-> declare continue handler for not found
-> begin
-> select 'NOT FOUND';
-> end;

```
-> select datediff(curdate(),DOI) into X from Borrower
where roll_no=roll_new;
->
if (X>15&&X<30)
-> then
-> insert into Fine values(roll_new,curdate(),(X*5));
-> end if;
-> if (X>30)
-> then
-> insert into Fine values(roll_new,curdate(),(X*50));
-> end if;
-> update Borrower set status='returned' where
roll_no=roll_new;
-> end;
-> //
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> call B(12,'xyz');-> //
```

Query OK, 1 row affected (0.42 sec)

```
mysql> select * from Fine;//
```

```
+----------+-------------+---------+
| roll_no | fine_date
| amount |
+----------+-------------+---------+
|
12 | 2018-07-28 |
135 |
+----------+-------------+---------+
1 row in set (0.00 sec)
```

```
mysql> select * from Borrower;//
+----------+-----------+-------------+------------+-----------+
| roll_no | name
| DOI
| book_name | status
|
+----------+-----------+-------------+------------+-----------+
| 12 | patel | 2018-07-01 | xyz | returned |
| 14 | shinde | 2018-06-01 | oop | issued
| 16 | bhangale | 2018-05-01 | coa | returned |
| 18 | rebello | 2018-06-15 | toc | returned |
```

| 20 | patil | 2018-05-15 | mp | issued
|
|
+----------+-----------+-------------+------------+-----------+
5 rows in set (0.00 sec)
mysql> call B(20,'patil');
-> //
Query OK, 1 row affected (0.35 sec)
mysql> select * from Fine;//
+----------+-------------+---------+
| roll_no | fine_date
| amount |
+----------+-------------+---------+
|
12 | 2018-07-28 |
135 ||
20 | 2018-07-28 |
3700 |
+----------+-------------+---------+
2 rows in set (0.00 sec)
mysql> select * from Borrower;//
+----------+-----------+-------------+------------+-----------+
| roll_no | name
| DOI
| book_name | status
|
+----------+-----------+-------------+------------+-----------+
| 12 | patel | 2018-07-01 | xyz | returned |
| 14 | shinde | 2018-06-01 | oop | issued
16	bhangale	2018-05-01	coa	returned
18	rebello	2018-06-15	toc	returned
20	patil	2018-05-15	mp	returned
+----------+-----------+-------------+------------+-----------+
5 rows in set (0.00 sec)

mysql>