

Group A: Lab Assignment No. 5

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 5 per 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>
```