

## ASSIGNMENT NO : 4 (A)

Name : Ronak Sanjay Rahane

Roll No : 26

Batch : TE - B2

### PROBLEM STATEMENT :

Unnamed PL/SQLcode block: Use of Control structure and Exception handling is After submitting the book, status will change from I to R.

- If the 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.

mandatory.

Suggested Problem statement:

Consider Tables:

1. Borrower(Roll\_no, Name, Date of Issue, Name of Book, Status)

2. Fine(Roll\_no, Date, Amt)

- Accept Roll\_no and Name of Book from user.
- Check the number of days (from date of issue).
- If days are between 15 to 30 then the fine amount will be Rs 5 per 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.

### Output :

```
mysql -h 192.168.2.232 -u TEB23 -p
```

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 26

Server version: 5.6.41 MySQL Community Server (GPL)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> create database pr04;
```

Query OK, 1 row affected (0.00 sec)

```
mysql> use pr04;
Database changed
mysql> create table Fine(Roll_no int,sDate date,Amt int);
Query OK, 0 rows affected (0.30 sec)
mysql> create table Borrower(Roll_no int primary key,name varchar(20),DateofIssue date,book
varchar(20),status char);
Query OK, 0 rows affected (0.29 sec)
```

```
mysql> insert into Borrower values(1,'Rahul','2024-07-14','DBMS','I');
Query OK, 1 row affected (0.05 sec)
```

```
mysql> insert into Borrower values(2,'Ravi','2024-06-14','SPOS','I');
Query OK, 1 row affected (0.05 sec)
```

```
mysql> insert into Borrower values(3,'RAM','2024-07-25','CNS','I');
Query OK, 1 row affected (0.04 sec)
```

```
mysql> SELECT * FROM Borrower;
+-----+-----+-----+-----+-----+
| Roll_no | name | DateofIssue | book | status |
+-----+-----+-----+-----+-----+
| 1 | Rahul | 2024-07-14 | DBMS | I |
| 2 | Ravi | 2024-06-14 | SPOS | I |
| 3 | RAM | 2024-07-25 | CNS | I |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM Fine;
Empty set (0.01 sec)
mysql> drop procedure if exists p_fine;
Query OK, 0 rows affected, 1 warning (0.00 sec)
```

```
mysql>
mysql> delimiter //
mysql>
mysql> create procedure p_fine(IN rno int,IN bname varchar(20))
-> begin
->
-> declare d1 date;
-> declare daycnt int;
-> declare fine_amt int;
->
->
-> SELECT DateofIssue into d1 FROM Borrower
```

```

-> WHERE Roll_no = rno and book= bname;
->
-> select DATEDIFF(now(),d1) into daycnt;
-> if(daycnt >= 15 and daycnt <= 30) then
->
->     set fine_amt := daycnt * 5;
->
->     insert into Fine(Roll_no,sDate,Amt) values (rno,now(),fine_amt);
->
->     update Borrower set status = 'R' where Roll_no = rno;
->
-> ELSEIF(daycnt > 30) then
->
->     set fine_amt := daycnt * 50;
->
->     insert into Fine(Roll_no,sDate,Amt) values (rno,now(),fine_amt);
->
->     update Borrower set status = 'R' where Roll_no = rno;
->
-> else
->
->     update Borrower set status = 'R' where Roll_no = rno;
->
-> end if;
->
-> end;
-> //

```

Query OK, 0 rows affected (0.00 sec)

mysql>

mysql> delimiter ;

mysql> call p\_fine(1,'DBMS');

Query OK, 1 row affected (0.10 sec)

mysql> select \* from Fine;

```

+-----+-----+-----+
| Roll_no | sDate   | Amt |
+-----+-----+-----+
| 1 | 2024-07-30 | 80 |
+-----+-----+-----+

```

1 row in set (0.00 sec)

mysql> select \* from Borrower;

```

+-----+-----+-----+-----+-----+

```

Roll_no	name	DateofIssue	book	status
1	Rahul	2024-07-14	DBMS	R
2	Ravi	2024-06-14	SPOS	I
3	RAM	2024-07-25	CNS	I

3 rows in set (0.00 sec)

mysql> call p\_fine(2,'SPOS');

Query OK, 1 row affected (0.12 sec)

mysql> select \* from Borrower;

Roll_no	name	DateofIssue	book	status
1	Rahul	2024-07-14	DBMS	R
2	Ravi	2024-06-14	SPOS	R
3	RAM	2024-07-25	CNS	I

3 rows in set (0.00 sec)

mysql> select \* from Fine;

Roll_no	sDate	Amt
1	2024-07-30	80
2	2024-07-30	2300

2 rows in set (0.00 sec)

mysql> call p\_fine(3,'CNS');

Query OK, 1 row affected (0.05 sec)

mysql> select \* from Borrower;

Roll_no	name	DateofIssue	book	status
1	Rahul	2024-07-14	DBMS	R
2	Ravi	2024-06-14	SPOS	R
3	RAM	2024-07-25	CNS	R

3 rows in set (0.00 sec)

mysql> select \* from Fine;

Roll_no	sDate	Amt
1	2024-07-30	80
2	2024-07-30	2300

2 rows in set (0.00 sec)

mysql>