

ASSIGNMENT NO:-5

NAME:

ROLL NO:

Problem Statement:-Unnamed PL/SQL code block Use of control structure and exception handling in mandatory. Write a PL/SQL block of code for the following requirements schima :

1.Borrower (rollno, name,dateofissue,nameofbook,status)

2.Fine (rollno,date,amt)

a].Accept rollno & name of book from user.

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

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

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

e]. If condition of fine is true ,then details will be stored into fine table.

```
mysql> CREATE DATABASE ASS5;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> USE ASS5 ;
Database changed
```

```
mysql> CREATE TABLE BORROWER (ROLLNO INTEGER(10),NAME VARCHAR
(30),DATEOFISSUE VARCHAR (15), NAMEOFBOOK VARCHAR (30), STATUS CHAR
(5));
```

```
Query OK, 0 rows affected (0.36 sec)
```

```
mysql> INSERT INTO BORROWER
(ROLLNO,NAME,DATEOFISSUE,NAMEOFBOOK,STATUS)
VALUES
(101,'RAM','2017-06-17','DBMS','R'),
(102,'SHAM','2017-07-20','ISEE','R'),
(103,'SITA','2017-07-15','SE','R'),
(106,'GITA','2017-08-27','DBMS','I'),
(107,'QQQ','2017-08-17','CN','I'),
(108,'SSSQQQ','2017-08-1','DBMS','I');
```

```
mysql> SELECT * FROM BORROWER;
```

```
+-----+-----+-----+-----+-----+
```

ROLLNO	NAME	DATEOFISSUE	NAMEOFBOOK	STATUS
101	RAM	2017-06-17	DBMS	R
102	SHAM	2017-07-20	ISEE	R
103	SITA	2017-07-15	SE	R
106	GITA	2017-08-27	DBMS	I
107	QQQ	2017-08-17	CN	I
108	SSSQQQ	2017-08-1	DBMS	I

6 rows in set (0.00 sec)

```

DELIMITER //
CREATE PROCEDURE DOISSUEBOOK(p1 int,p2 varchar(30),p3 varchar (15),p4
varchar(30))
X:BEGIN
SET @p3val = str_to_date(p3,'%d/%m/%y');
SET @p5val = 'i';
SET @ERRORMSG = "";
IF p1 <= 0 THEN
BEGIN
SET @ERRORMSG = 'Wrong Roll no Specified';
SELECT @ERRORMSG;
LEAVE X;
END;
END IF;
IF LENGTH(p4) <= 0 THEN
BEGIN
SET @ERRORMSG = 'WRONG BOOK';
SELECT @ERRORMSG;
LEAVE X;
END;
END IF;
INSERT INTO BORROWER (NAME,DATEOFISSUE,NAMEOFBOOK,STATUS,ROLLNO)
VALUES(p2,@p3val,p4,@p5val,p1);
END //
Query OK, 0 rows affected (1.80 sec)

```

```

CREATE PROCEDURE DORETURN(RNO integer(10),BOOKNAME VARCHAR(30))
BEGIN
SET @NUMDAYS = 0;
SET @FINEAMT = 0.0;
SET @NUMREC = 0;
SELECT DATEDIFF(CURDATE(),DATEOFISSUE) FROM BORROWER WHERE
ROLLNO = RNO AND NAMEOFBOOK = BOOKNAME INTO @NUMDAYS;
SELECT COUNT(*) FROM BORROWER WHERE ROLLNO = RNO AND NAMEOFBOOK
= BOOKNAME INTO @NUMREC;
IF @NUMDAYS >= 15 AND @NUMDAYS <= 30 THEN SET @FINEAMT=(@NUMDAYS-
15)*5;
ELSEIF @NUMDAYS > 30 THEN SET @FINEAMT = ((15*5)+(@NUMDAYS-30)*50);
ELSE SET @FINEAMT = 0;

```

```

END IF;
IF @NUMREC > 0 THEN
UPDATE BORROWER SET STATUS = 'R' WHERE ROLLNO = RNO AND
NAMEOFBOOK = BOOKNAME;
INSERT INTO FINE(ROLLNO,DATE,AMT) VALUES (RNO,CURDATE(),@FINEAMT);
END IF;
END;
//

```

```

mysql> CREATE TABLE FINE (ROLLNO INTEGER,DATE DATE,AMT DECIMAL (5,2)); //
Query OK, 0 rows affected (0.37 sec)

```

```

mysql> CALL DOISSUEBOOK(106,'GITA','2017-08-27',''); //
+-----+
| @ERRORMSG |
+-----+
| WRONG BOOK |
+-----+
1 row in set (0.00 sec)

```

```

mysql> CALL DOISSUEBOOK(0,'GITA','2017-08-27','DBMS'); //
+-----+
| @ERRORMSG |
+-----+
| Wrong Roll no Specified |
+-----+
1 row in set (0.00 sec)

```

```

mysql> CALL DORETURN(106,'DBMS'); //
Query OK, 1 row affected (0.08 sec)

```

```

mysql> SELECT * FROM FINE; //
+-----+-----+-----+
| ROLLNO | DATE   | AMT |
+-----+-----+-----+
| 106 | 2017-09-12 | 5.00 |
+-----+-----+-----+
1 row in set (0.00 sec)

```

```

mysql> SELECT * FROM BORROWER; //
+-----+-----+-----+-----+-----+
| ROLLNO | NAME  | DATEOFISSUE | NAMEOFBOOK | STATUS |
+-----+-----+-----+-----+-----+
| 101 | RAM   | 2017-06-17 | DBMS        | R      |
| 102 | SHAM  | 2017-07-20 | ISEE        | R      |

```

103	SITA	2017-07-15	SE	R
106	GITA	2017-08-27	DBMS	R
107	QQQ	2017-08-17	CN	I
108	SSSQQQ	2017-08-1	DBMS	I

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

6 rows in set (0.00 sec)

```
mysql> CALL DORETURN(107,'CN'); //
Query OK, 1 row affected (0.38 sec)
```

```
mysql> SELECT * FROM BORROWER; //
```

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

ROLLNO	NAME	DATEOFISSUE	NAMEOFBOOK	STATUS
--------	------	-------------	------------	--------

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

101	RAM	2017-06-17	DBMS	R
102	SHAM	2017-07-20	ISEE	R
103	SITA	2017-07-15	SE	R
106	GITA	2017-08-27	DBMS	R
107	QQQ	2017-08-17	CN	R
108	SSSQQQ	2017-08-1	DBMS	I

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

6 rows in set (0.00 sec)

```
mysql> SELECT * FROM FINE; //
```

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

ROLLNO	DATE	AMT
--------	------	-----

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

106	2017-09-12	5.00
107	2017-09-12	55.00

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

2 rows in set (0.00 sec)
