## **ASSIGNMENT NO-4**

Unnamed PL/SQLcode block: Use of Control structure and Exception handling is 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. • 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 fine amount will be Rs 5per 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.

gescoe@gescoe-OptiPlex-3010:~\$ mysql -h 192.168.2.232 -u TEB41 -p Enter password:

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

Your MySQL connection id is 29

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 [(none)]> create database pranjal;

Query OK, 1 row affected (0.001 sec)

MySQL [(none)]> use pranjal;

Database changed

MySQL [pranjal] > create table Fine(Roll no int,sDate date,Amt int);

Query OK, 0 rows affected (0.310 sec)

MySQL [pranjal]> create table Borrower(Roll\_no int,name varchar(20),DateofIssue date,bname varchar(20),status char);

Query OK, 0 rows affected (0.279 sec)

MySQL [pranjal] > desc Borrower;

++	+	++	++	
Field	Type	Null   Key   I	Default   Extra	
++	+	++	++	
Roll_no	int(11)	YES	NULL	
name	varchar(20)	YES     NUL	L	
DateofIssue	date   YES	NUL	L	
bname	varchar(20)	YES     NUL	L	

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| YES | NULL
status
             | char(1)
5 rows in set (0.001 \text{ sec})
MySQL [pranjal]> insert into Borrower
values(41, 'Pranjal', '2024-07-18', 'aptitude', 'I'), (61, 'Punam', '2024-07-3', 'gate', 'I'), (59, 'harshali', '2024
-06-15','reasoning','I');
Query OK, 3 rows affected (0.043 sec)
Records: 3 Duplicates: 0 Warnings: 0
MySQL [pranjal] > select * from Borrower;
+----+
| Roll no | name | DateofIssue | bname | status |
+----+
      41 | Pranjal | 2024-07-18 | aptitude | I
      61 | Punam | 2024-07-03 | gate | I
      59 | harshali | 2024-06-15 | reasoning | I
+----+
3 rows in set (0.001 \text{ sec})
MySQL [pranjal] > drop procedure if exists p fine;
Query OK, 0 rows affected, 1 warning (0.000 sec)
MySQL [pranjal]>
MySQL [pranjal]>
                   delimiter //
MySQL [pranjal]>
MySQL [pranjal]>
                   create procedure p fine(IN rno int,IN bname varchar(20))
      ->
             begin
      ->
      ->
             declare d1 date;
      ->
             declare dayent 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(dayent >= 15 and dayent <= 30) then
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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(dayent > 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 (0.037 sec)
MySQL [pranjal]>
MySQL [pranjal] > delimiter;
MySQL [pranjal]> alter table Borrower change bname book varchar(20);
Query OK, 0 rows affected (0.079 sec)
Records: 0 Duplicates: 0 Warnings: 0
MySQL [pranjal]> DESC Borrower;
+-----+
Field
            | Type
                        | Null | Key | Default | Extra |
+-----+
| Roll no
            | int(11)
                         YES |
                                      | NULL
name
            | varchar(20) | YES | NULL
| DateofIssue | date | YES |
                              | NULL
book
            | varchar(20) | YES | NULL
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|YES |
                                   NULL
status
           | char(1)
5 rows in set (0.001 \text{ sec})
MySQL [pranjal] > call p fine(61, 'gate');
Query OK, 1 row affected (0.082 sec)
MySQL [pranjal] > call p fine(41, 'aptitude');
Query OK, 1 row affected (0.058 sec)
MySQL [pranjal] > call p fine(59, 'reasoning');
Query OK, 1 row affected (0.147 sec)
MySQL [pranjal]> select * from Borrower;
+----+
| Roll no | name
                 | DateofIssue | book | status |
+----+
     41 | Pranjal | 2024-07-18 | aptitude | R
                 | 2024-07-03 | gate
     61 | Punam
     59 | harshali | 2024-06-15 | reasoning | R
+----+
3 rows in set (0.001 \text{ sec})
MySQL [pranjal]> select * from Fine;
+----+
| Roll no | sDate | Amt |
+----+
     61 | 2024-07-24 | 105 |
     59 | 2024-07-24 | 1950 |
+----+
2 rows in set (0.001 sec)
```

MySQL [pranjal]>