

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 TEB39 -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 omkar;
```

Query OK, 1 row affected (0.001 sec)

```
MySQL [(none)]> use omkar;
```

Database changed

```
MySQL [omkar]> create table Fine(Roll_no int,sDate date,Amt int);
```

Query OK, 0 rows affected (0.310 sec)

```
MySQL [omkar]> 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 [omkar]> desc Borrower;
```

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

status	char(1)	YES	NULL

5 rows in set (0.001 sec)

```
MySQL [omkar]> insert into Borrower values(41,omkar,'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 [omkar]> select * from Borrower;
```

Roll_no	name	DateofIssue	bname	status
41	Omkar	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 sec)

```
MySQL [omkar]> drop procedure if exists p_fine;
```

Query OK, 0 rows affected, 1 warning (0.000 sec)

```
MySQL [omkar]>
```

```
MySQL [omkar]> delimiter //
```

```
MySQL [omkar]>
```

```
MySQL [omkar]> 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 (0.037 sec)

MySQL [omkar]>

MySQL [omkar]> delimiter ;

MySQL [omkar]> alter table Borrower change bname book varchar(20);

Query OK, 0 rows affected (0.079 sec)

Records: 0 Duplicates: 0 Warnings: 0

MySQL [omkar]> 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	
status	char(1)	YES		NULL	

```
+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)
```

```
MySQL [omkar]> call p_fine(61,'gate');
Query OK, 1 row affected (0.082 sec)
```

```
MySQL [omkar]> call p_fine(41,'aptitude');
Query OK, 1 row affected (0.058 sec)
```

```
MySQL [omkar]> call p_fine(59,'reasoning');
Query OK, 1 row affected (0.147 sec)
```

```
MySQL [omkar]> select * from Borrower;
+-----+-----+-----+-----+-----+
| Roll_no | name      | DateofIssue | book    | status |
+-----+-----+-----+-----+-----+
|      41 | Omkar    | 2024-07-18 | aptitude | R      |
|      61 | Punam    | 2024-07-03 | gate    | R      |
|      59 | harshali | 2024-06-15 | reasoning | R      |
+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```

```
MySQL [omkar]> 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 [omkar]>
```