**Assignment Group: A**

**Assignment NO 4**

**Assignment Title**: 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 TEB19 -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)

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MySQL [(none)]> create database Dipesh;

Query OK, 1 row affected (0.001 sec)

MySQL [(none)]> use Dipesh;

Database changed

MySQL [Dipesh]> create table Fine(Roll\_no int,sDate date,Amt int);

Query OK, 0 rows affected (0.310 sec)

MySQL [Dipesh]> 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 [Dipesh]> 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 [Dipesh]> insert into Borrower

values(41,'Dipesh','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 [Dipesh]> select \* from Borrower;

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

| Roll\_no | name | DateofIssue | bname | status |

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

| 41 | Dipesh | 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 [Dipesh]> drop procedure if exists p\_fine;

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

MySQL [Dipesh]>

MySQL [Dipesh]> delimiter //

MySQL [Dipesh]>

MySQL [Dipesh]> 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 [Dipesh]>

MySQL [Dipesh]> delimiter ;

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

Query OK, 0 rows affected (0.079 sec)

Records: 0 Duplicates: 0 Warnings: 0

MySQL [Dipesh]> 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 [Dipesh]> call p\_fine(61,'gate');

Query OK, 1 row affected (0.082 sec)

MySQL [Dipesh]> call p\_fine(41,'aptitude');

Query OK, 1 row affected (0.058 sec)

MySQL [Dipesh]> call p\_fine(59,'reasoning');

Query OK, 1 row affected (0.147 sec)

MySQL [Dipesh]> select \* from Borrower;

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

| Roll\_no | name | DateofIssue | book | status |

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

| 41 | Dipesh | 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 [Dipesh]> 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 [Dipesh]>