TITLE:- Unnamed PL/SQLcode block: Use of Control structure and Exception handling is 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.

　　　• 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.

Enter password: ***********

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

Your MySQL connection id is 31

Server version: 8.0.30 MySQL Community Server - GPL

Copyright (c) 2000, 2022, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its

affiliates. Other names may be trademarks of their respective

owners.

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

mysql> use abhi;

Database changed

mysql> delimiter //

mysql> call B1(1,'TOC')//

ERROR 1305 (42000): PROCEDURE abhi.B1 does not exist

mysql> delimiter ;

mysql> create table Borrower(roll_no int, name varchar(20),DOI date,book_name varchar(20),status varchar(20));

Query OK, 0 rows affected (0.28 sec)

mysql> insert into Borrower

    -> values(12,'patel','2018-07-01','xyz','issued');

Query OK, 1 row affected (0.08 sec)

mysql> insert into Borrower

    -> values(14,'shinde','2018-06-01','oop','issued');

Query OK, 1 row affected (0.08 sec)

mysql> insert into Borrower

    -> values(16,'bhanghale','2018-05-01','coa','returned');

Query OK, 1 row affected (0.27 sec)

mysql> insert into Borrower

    -> values(18,'shahane','2018-06-15','toc','returned');

Query OK, 1 row affected (0.14 sec)

mysql> insert into Borrower

    -> values(20,'patil','2018-05-15','mp','issued');

Query OK, 1 row affected (0.13 sec)

mysql> select*from Borrower;

```
+---------+-----------+------------+-----------+----------+
| roll_no | name      | DOI        | book_name | status   |
+---------+-----------+------------+-----------+----------+
|      12 | patel     | 2018-07-01 | xyz       | issued   |
|      14 | shinde    | 2018-06-01 | oop       | issued   |
|      16 | bhanghale | 2018-05-01 | coa       | returned |
|      18 | shahane   | 2018-06-15 | toc       | returned |
|      20 | patil     | 2018-05-15 | mp        | issued   |
```

```
+---------+----------+-----------+----------+---------+
```
5 rows in set (0.00 sec)

mysql> show tables;

```
+----------------+
| Tables_in_abhi |
+----------------+
| borrower       |
+----------------+
```
1 row in set (0.24 sec)

mysql> create table Fine(roll_no int,fine_date date,amount int);

Query OK, 0 rows affected (0.63 sec)

mysql> insert into Fine

   -> values(12,'2018-07-28',135);

Query OK, 1 row affected (0.08 sec)

mysql> insert into Fine

   -> values(20,'2018-07-28',3700);

Query OK, 1 row affected (0.11 sec)

mysql> select*from Fine;

```
+---------+------------+--------+
| roll_no | fine_date  | amount |
+---------+------------+--------+
|      12 | 2018-07-28 |    135 |
|      20 | 2018-07-28 |   3700 |
+---------+------------+--------+
```
2 rows in set (0.00 sec)

```
mysql> delimiter //

mysql> create procedure B(roll_new int,book_name varchar(20))
    -> begin
    -> declare X integer;
    -> declare continue handler for not found
    -> begin
    -> select 'NOT FOUND';
    -> end;
    -> select datediff(curdate(),DOI)into X from Borrower where roll_no=roll_new;
    -> if(X>15&&X<30)
    -> then
    -> insert into Fine values(roll_new,curdate(),(X*5));
    -> end if;
    -> if(X>30)
    -> then
    -> insert into Fine values(roll_new,curdate(),(X*50));
    -> end if;
    -> update Borrower set status='returned' where roll_no=roll_new;
    -> end;
    -> //
Query OK, 0 rows affected, 1 warning (0.14 sec)


mysql> call B(12,'xyz')//
Query OK, 1 row affected (0.19 sec)


mysql> select*from Fine//
+---------+------------+--------+
| roll_no | fine_date  | amount |
+---------+------------+--------+
|    12   | 2018-07-28 |   135  |
|    20   | 2018-07-28 |  3700  |
```

```
|      12 | 2022-09-14 |  76800 |

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

3 rows in set (0.00 sec)


mysql> select*from Fine;//

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

| roll_no | fine_date  | amount |

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

|      12 | 2018-07-28 |    135 |

|      20 | 2018-07-28 |   3700 |

|      12 | 2022-09-14 |  76800 |

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

3 rows in set (0.00 sec)


mysql> select*from Borrower;//

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

| roll_no | name      | DOI        | book_name | status   |

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

|      12 | patel     | 2018-07-01 | xyz       | returned |

|      14 | shinde    | 2018-06-01 | oop       | issued   |

|      16 | bhanghale | 2018-05-01 | coa       | returned |

|      18 | shahane   | 2018-06-15 | toc       | returned |

|      20 | patil     | 2018-05-15 | mp        | issued   |

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

5 rows in set (0.00 sec)


mysql> call B(20,'patil');

    -> //

Query OK, 1 row affected (0.15 sec)


mysql> select*from Fine;//
```

```
+---------+-----------+--------+
| roll_no | fine_date | amount |
+---------+-----------+--------+
|      12 | 2018-07-28 |   135 |
|      20 | 2018-07-28 |  3700 |
|      12 | 2022-09-14 | 76800 |
|      20 | 2022-09-14 | 79150 |
+---------+-----------+--------+
4 rows in set (0.00 sec)


mysql> select*from Borrower;//
+---------+----------+-----------+-----------+----------+
| roll_no | name     | DOI       | book_name | status   |
+---------+----------+-----------+-----------+----------+
|      12 | patel    | 2018-07-01 | xyz       | returned |
|      14 | shinde   | 2018-06-01 | oop       | issued   |
|      16 | bhanghale | 2018-05-01 | coa       | returned |
|      18 | shahane  | 2018-06-15 | toc       | returned |
|      20 | patil    | 2018-05-15 | mp        | returned |
+---------+----------+-----------+-----------+----------+
5 rows in set (0.00 sec)


mysql>
```

```
mysql> insert into Borrower
    -> values(12,'patel','2018-07-01','xyz','issued');
Query OK, 1 row affected (0.08 sec)

mysql> insert into Borrower
    -> values(14,'shinde','2018-06-01','oop','issued');
Query OK, 1 row affected (0.08 sec)

mysql> insert into Borrower
    -> values(16,'bhanghale','2018-05-01','coa','returned');
Query OK, 1 row affected (0.27 sec)

mysql> insert into Borrower
    -> values(18,'shahane','2018-06-15','toc','returned');
Query OK, 1 row affected (0.14 sec)

mysql> insert into Borrower
    -> values(20,'patil','2018-05-15','mp','issued');
Query OK, 1 row affected (0.13 sec)

mysql> select*from Borrower;
+---------+-----------+------------+-----------+----------+
| roll_no | name      | DOI        | book_name | status   |
+---------+-----------+------------+-----------+----------+
|      12 | patel     | 2018-07-01 | xyz       | issued   |
|      14 | shinde    | 2018-06-01 | oop       | issued   |
|      16 | bhanghale | 2018-05-01 | coa       | returned |
|      18 | shahane   | 2018-06-15 | toc       | returned |
|      20 | patil     | 2018-05-15 | mp        | issued   |
+---------+-----------+------------+-----------+----------+
5 rows in set (0.00 sec)

mysql> show tables;
+---------------+
| Tables_in_abhi |
+---------------+
| borrower      |
+---------------+
1 row in set (0.24 sec)

mysql> create table Fine(roll_no int,fine_date date,amount int);
Query OK, 0 rows affected (0.63 sec)
```

```
Query OK, 0 rows affected (0.63 sec)

mysql> insert into Fine
    -> values(12,'2018-07-28',135);
Query OK, 1 row affected (0.08 sec)

mysql> insert into Fine
    -> values(20,'2018-07-28',3700);
Query OK, 1 row affected (0.11 sec)

mysql> slect*from Fine;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that co
ne' at line 1
mysql> select*from Fine;
+---------+------------+--------+
| roll_no | fine_date  | amount |
+---------+------------+--------+
|      12 | 2018-07-28 |    135 |
|      20 | 2018-07-28 |   3700 |
+---------+------------+--------+
2 rows in set (0.00 sec)

mysql> delimiter //
mysql> create procedure B(roll_new int,book_name varchar(20))
    -> begin
    -> declare X integer;
    -> declare continue handler for not found
    -> begin
    -> select 'NOT FOUND';
    -> end;
    -> select datediff(curdate(),DOI)into X from Borrower where roll_no=roll_new;
    -> if(X>15&&X<30)
    -> then
    -> insert into Fine values(roll_new,curdate(),(X*5));
    -> end if;
    -> if(X>30)
    -> then
    -> insert into Fine values(roll_new,curdate(),(X*50));
    -> end if;
    -> update Borrower set status='returned' where roll_no=roll_new;
    -> end;
    -> //
Query OK, 0 rows affected, 1 warning (0.14 sec)
```

```
Query OK, 0 rows affected (0.63 sec)

mysql> insert into Fine
    -> values(12,'2018-07-28',135);
Query OK, 1 row affected (0.08 sec)

mysql> insert into Fine
    -> values(20,'2018-07-28',3700);
Query OK, 1 row affected (0.11 sec)

mysql> slect*from Fine;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that co
ne' at line 1
mysql> select*from Fine;
+---------+------------+--------+
| roll_no | fine_date  | amount |
+---------+------------+--------+
|      12 | 2018-07-28 |    135 |
|      20 | 2018-07-28 |   3700 |
+---------+------------+--------+
2 rows in set (0.00 sec)

mysql> delimiter //
mysql> create procedure B(roll_new int,book_name varchar(20))
    -> begin
    -> declare X integer;
    -> declare continue handler for not found
    -> begin
    -> select 'NOT FOUND';
    -> end;
    -> select datediff(curdate(),DOI)into X from Borrower where roll_no=roll_new;
    -> if(X>15&&X<30)
    -> then
    -> insert into Fine values(roll_new,curdate(),(X*5));
    -> end if;
    -> if(X>30)
    -> then
    -> insert into Fine values(roll_new,curdate(),(X*50));
    -> end if;
    -> update Borrower set status='returned' where roll_no=roll_new;
    -> end;
    -> //
Query OK, 0 rows affected, 1 warning (0.14 sec)
```

```
|      20 | patil      | 2018-05-15 | mp        | issued    |
+---------+------------+------------+-----------+-----------+
5 rows in set (0.00 sec)

mysql> call B(20,'patil');
    -> //
Query OK, 1 row affected (0.15 sec)

mysql> select*from Fine;//
+---------+------------+--------+
| roll_no | fine_date  | amount |
+---------+------------+--------+
|      12 | 2018-07-28 |    135 |
|      20 | 2018-07-28 |   3700 |
|      12 | 2022-09-14 |  76800 |
|      20 | 2022-09-14 |  79150 |
+---------+------------+--------+
4 rows in set (0.00 sec)

mysql> select*from Borrower;//
+---------+-----------+------------+-----------+-----------+
| roll_no | name      | DOI        | book_name | status    |
+---------+-----------+------------+-----------+-----------+
|      12 | patel     | 2018-07-01 | xyz       | returned  |
|      14 | shinde    | 2018-06-01 | oop       | issued    |
|      16 | bhanghale | 2018-05-01 | coa       | returned  |
|      18 | shahane   | 2018-06-15 | toc       | returned  |
|      20 | patil     | 2018-05-15 | mp        | returned  |
+---------+-----------+------------+-----------+-----------+
5 rows in set (0.00 sec)

mysql>
```