

Title: Unnamed PL/SQL code block: Use of Control structure and Exception handling is mandatory. Write a PL/SQL block of code for the following requirements:- Schema:
1.Borrower(Rollin, Name, DateofIssue, NameofBook, Status) 2.Fine(Roll_no,Date,Amt)
Accept roll_no & name of book from user. Check the number of days (from date of issue), if days are between 15 to 30 then fineamount will be Rs 5 per day. If no. of days>30, per day fine will be Rs 50 per day & for days less than 30, Rs.5 perday. 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

```
[rllab4@fedora ~]$ show databases;
show: Doesn't look like nmh is installed. Run install-mh to do so.
[rllab4@fedora ~]$ sudo mysql
[sudo] password for rllab4:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 12
Server version: 8.0.34 Source distribution
```

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

```
mysql> show databases;
```

```
+-----+
| Database          |
+-----+
| abc                |
| information_schema |
| mysql              |
| performance_schema |
| student            |
| sys                |
| xyz                |
+-----+
7 rows in set (0.00 sec)
```

```
mysql> use student;
```

Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed

```
mysql> show tables;
```

```
+-----+
| Tables_in_student |
+-----+
| student            |
+-----+
```

```
+-----+
1 row in set (0.01 sec)
```

mysql> use student;

Database changed

mysql> create table borrower(rollno int primary key,name varchar(20),dateofissue date,nameofbook

-> varchar(20),status varchar(20));

Query OK, 0 rows affected (0.03 sec)

mysql> create table

fine(rollno int,foreign key(rollno) references borrower(rollno),returndate date,

-> amount int);

Query OK, 0 rows affected (0.04 sec)

mysql> insert into borrower values(1,'abc','2021-06-01','SEPM','T');

Query OK, 1 row affected (0.01 sec)

mysql> insert into borrower values(2,'xyz','2021-05-01','OOP','T');

Query OK, 1 row affected (0.01 sec)

mysql> insert into borrower values(3,'pqr','2021-06-15','DBMS','T');

Query OK, 1 row affected (0.01 sec)

mysql> insert into borrower values(4,'def','2021-06-30','DSA','T');

Query OK, 1 row affected (0.01 sec)

mysql> insert into borrower values(5,'lmn','2021-07-05','ADS','T');

Query OK, 1 row affected (0.01 sec)

mysql> select * from borrower;

```
+-----+-----+-----+-----+-----+
| rollno | name | dateofissue | nameofbook | status |
+-----+-----+-----+-----+-----+
| 1 | abc | 2021-06-01 | SEPM | I |
| 2 | xyz | 2021-05-01 | OOP | I |
| 3 | pqr | 2021-06-15 | DBMS | I |
| 4 | def | 2021-06-30 | DSA | I |
| 5 | lmn | 2021-07-05 | ADS | I |
+-----+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)

Program:

mysql> delimiter \$

mysql> create procedure calc_fine_lib(in roll int)

-> begin

-> declare fine1 int;

-> declare noofdays int;

-> declare issuedate date;

-> declare exit handler for SQLEXCEPTION select 'create table definition';

-> select dateofissue into issuedate from borrower where rollno=roll;

```

-> select datediff(curdate(),issuedate) into noofdays;
-> if noofdays>15 and noofdays<=30 then
-> set fine1=noofdays*5;
-> insert into fine values(roll,curdate(),fine1);
-> elseif noofdays>30 then
-> set fine1=((noofdays-30)*50) + 30*5;
-> insert into fine values(roll,curdate(),fine1);
-> else
->
-> insert into fine values(roll,curdate(),0);
-> end if;
-> update borrower set status='R' where rollno=roll;
-> end $

```

Query OK, 0 rows affected (0.01 sec)

```
mysql> call calc_fine_lib(1);
```

```

-> call calc_fine_lib(2);
-> call calc_fine_lib(3);
-> call calc_fine_lib(4);
-> call calc_fine_lib(5);
-> select * from fine;
-> call calc_fine_lib(1)$

```

Query OK, 1 row affected (0.02 sec)

Query OK, 1 row affected (0.02 sec)

Query OK, 1 row affected (0.03 sec)

Query OK, 1 row affected (0.03 sec)

Query OK, 1 row affected (0.04 sec)

```

+-----+-----+-----+
| rollno | returndate | amount |
+-----+-----+-----+
| 1 | 2023-10-12 | 41800 |
| 2 | 2023-10-12 | 43350 |
| 3 | 2023-10-12 | 41100 |
| 4 | 2023-10-12 | 40350 |
| 5 | 2023-10-12 | 40100 |
+-----+-----+-----+

```

5 rows in set (0.04 sec)

Query OK, 0 rows affected (0.04 sec)

```
mysql> call calc_fine_lib(2)$
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> call calc_fine_lib(3)$
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> select * from borrower;
```

-> \$

rollno	name	dateofissue	nameofbook	status
1	abc	2021-06-01	SEPM	R
2	xyz	2021-05-01	OOP	R
3	pqr	2021-06-15	DBMS	R
4	def	2021-06-30	DSA	R
5	lmn	2021-07-05	ADS	R

5 rows in set (0.00 sec)

mysql> select * from fine\$

rollno	returndate	amount
1	2023-10-12	41800
2	2023-10-12	43350
3	2023-10-12	41100
4	2023-10-12	40350
5	2023-10-12	40100
1	2023-10-12	41800
2	2023-10-12	43350
3	2023-10-12	41100

8 rows in set (0.00 sec)