**OUTPUT:**

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','I');

Query OK, 1 row affected (0.01 sec)

mysql> insert into borrower values(2,'xyz','2021-05-01','OOP','I');

Query OK, 1 row affected (0.01 sec)

mysql> insert into borrower values(3,'pqr','2021-06-15','DBMS','I');

Query OK, 1 row affected (0.01 sec)

mysql> insert into borrower values(4,'def','2021-06-30','DSA','I');

Query OK, 1 row affected (0.01 sec)

mysql> insert into borrower values(5,'lmn','2021-07-05','ADS','I');

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)