DBMS Assignment A5

```
mysql> create database assign5;
Query OK, 1 row affected (0.01 sec)

mysql> use assign5;
Database changed
mysql> create table Borrower(Rollin int primary key,Name varchar(10),DateofIssue
varchar(10),NameofBook varchar(10),Status varchar(10));
Query OK, 0 rows affected (0.05 sec)

mysql> create table Fine(Rollin int,Days int,amt int,foreign key(Rollin)references
Borrower(Rollin));
Query OK, 0 rows affected (0.09 sec)

mysql>  insert into Borrower values(1,'Dhruvil','2020-06-01','COA','I');
Query OK, 1 row affected (0.02 sec)

mysql> insert into Borrower values(2,'Soham','2020-06-04','DSA','I');
Query OK, 1 row affected (0.01 sec)

mysql> insert into Borrower values(3,'Gaurav','2020-07-17','ADS','I');
Query OK, 1 row affected (0.01 sec)

mysql> insert into Borrower values(4,'Aabha','2020-09-18','CN','I');
Query OK, 1 row affected (0.01 sec)

mysql> select * from Borrower;
+--------+---------+-------------+------------+--------+
| Rollin | Name    | DateofIssue | NameofBook | Status |
+--------+---------+-------------+------------+--------+
|      1 | Dhruvil | 2020-06-01  | COA        | I      |
|      2 | Soham   | 2020-09-18  | CN         | I      |
|      3 | Gaurav  | 2020-07-17  | ADS        | I      |
|      4 | Aabha   | 2020-06-04  | DSA        | I      |
+--------+---------+-------------+------------+--------+
4 rows in set (0.01 sec)

mysql> select * from Fine;
Empty set (0.02 sec)

mysql> delimiter $$
mysql> create procedure proc_lib1(In roll Integer,In book_name varchar(20))
    -> begin
    -> declare no_of_days int;
    -> declare fine_amount int;
    -> declare issue_date date;
    -> set fine_amount:=0;
    -> select DateofIssue into issue_date from Borrower where Rollin=roll and NameofBook =
book_name;
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```
    -> select issue_date;
    -> select current_date-issue_date into no_of_days from Borrower where Rollin=roll;
    -> select no_of_days;
    -> if no_of_days>=15 and no_of_days<=30
    -> then
    -> set fine_amount:=(no_of_days-15)*5;
    -> elseif no_of_days>30 then set fine_amount:=(no_of_days-30)*50 + 75;
    -> end if;
    -> update Borrower set status="R" where Rollin=roll;
    -> if fine_amount>=0 then
    -> insert into Fine values(roll,no_of_days,fine_amount);
    -> elseif fine_amount<0 then
    -> begin
    -> DECLARE EXIT HANDLER FOR SQLEXCEPTION SELECT 'Table not found';
    -> SELECT * from borrower;
    -> end;
    -> end if;
    -> end;
    -> $$
Query OK, 0 rows affected (0.03 sec)

mysql> call proc_lib1(3,'ADS');$$
+------------+
| issue_date |
+------------+
| 2020-07-17 |
+------------+
1 row in set (0.05 sec)


+------------+
| no_of_days |
+------------+
|        146 |
+------------+
1 row in set (0.06 sec)

Query OK, 1 row affected (0.07 sec)

mysql> select * from Fine;
    -> ^C
mysql> select * from Fine;$$
+--------+------+-------+
| Rollin | Days | amt   |
+--------+------+-------+
|      3 |  146 |  5875 |
+--------+------+-------+
1 row in set (0.00 sec)

mysql> select * from Borrower;$$
+--------+---------+-------------+------------+--------+
| Rollin | Name    | DateofIssue | NameofBook | Status |
```

```
+--------+---------+------------+-----------+--------+
|      1 | Dhruvil | 2020-06-01 | COA       | I      |
|      2 | Soham   | 2020-09-18 | CN        | I      |
|      3 | Gaurav  | 2020-07-17 | ADS       | R      |
|      4 | Aabha   | 2020-06-04 | DSA       | I      |
+--------+---------+------------+-----------+--------+
4 rows in set (0.00 sec)
```