Assignment 5

mysql> use urvee;
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> create table borrower(rollno int, name varchar(20), doi date, book_name varchar(20), status varchar(5), primary key(rollno));
ERROR 1050 (42S01): Table 'borrower' already exists
mysql> create table book_borrower(rollno int, name varchar(20), doi date, book_name varchar(20), status varchar(5), primary key(rollno));
Query OK, 0 rows affected (0.89 sec)

mysql> select * from book_borrower;
Empty set (0.00 sec)

mysql> describe book_borrower;
```
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| rollno    | int         | NO   | PRI | NULL    |       |
| name      | varchar(20) | YES  |     | NULL    |       |
| doi       | date        | YES  |     | NULL    |       |
| book_name | varchar(20) | YES  |     | NULL    |       |
| status    | varchar(5)  | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
```
5 rows in set (0.00 sec)

mysql> create table fine(rollno int, dor date, amt int, foreign key(rollno) references book_borrower(rollno));
Query OK, 0 rows affected (0.64 sec)

mysql> describe fine;
```
+--------+------+------+-----+---------+-------+
| Field  | Type | Null | Key | Default | Extra |
+--------+------+------+-----+---------+-------+
| rollno | int  | YES  | MUL | NULL    |       |
| dor    | date | YES  |     | NULL    |       |
| amt    | int  | YES  |     | NULL    |       |
+--------+------+------+-----+---------+-------+
```
3 rows in set (0.00 sec)

mysql> delimiter /
mysql> create procedure fine_cal(roll int)
    -> begin
    -> declare days int;
    -> select datediff(curdate(),doi) into days from book_borrower where rollno=roll;
    -> if days<=15 then
    -> insert into fine values(roll, curdate(), 0);

```
    -> elseif days>15 and days<=30 then
    -> insert into fine values(roll, curdate(), (days-15)*5);
    -> elseif days>30 and days<=45 then
    -> insert into fine values(roll, curdate(), 15*5+(days-30)*10);
    -> else
    -> insert into fine values(roll, curdate(), 15*5+15*10+(days-45)*15);
    -> end if;
    -> update book_borrower set status='R' where rollno=roll;
    -> end;
    -> /
Query OK, 0 rows affected (0.18 sec)

mysql> insert into book_borrower values(6, 'Ankush', '2024-05-15', 'CET', 'I');
    -> insert into book_borrower values(6, 'Ankush', '2024-05-15', 'CET', 'I');
    -> /
Query OK, 1 row affected (0.23 sec)

ERROR 1062 (23000): Duplicate entry '6' for key 'book_borrower.PRIMARY'
mysql> insert into book_borrower values(6, 'Ankush', '2024-05-15', 'CET', 'I');
    -> /
ERROR 1062 (23000): Duplicate entry '6' for key 'book_borrower.PRIMARY'
mysql> insert into book_borrower values(7, 'Yogita', '2024-07-20', 'NEET', 'I');
    -> /
Query OK, 1 row affected (0.10 sec)

mysql> insert into book_borrower values(8, 'Sujal', '2024-08-01', 'JEE', 'I');
    -> /
Query OK, 1 row affected (0.09 sec)

mysql> insert into book_borrower values(9, 'Shreyash', '2024-07-01', 'NATA', 'I');
    -> /
Query OK, 1 row affected (0.09 sec)

mysql> select * from book_borrower;
    -> /
+--------+----------+------------+-----------+--------+
| rollno | name     | doi        | book_name | status |
+--------+----------+------------+-----------+--------+
|      6 | Ankush   | 2024-05-15 | CET       | I      |
|      7 | Yogita   | 2024-07-20 | NEET      | I      |
|      8 | Sujal    | 2024-08-01 | JEE       | I      |
|      9 | Shreyash | 2024-07-01 | NATA      | I      |
+--------+----------+------------+-----------+--------+
4 rows in set (0.00 sec)

mysql> call fine_cal(6);
    -> /
Query OK, 1 row affected (0.19 sec)

mysql> select * from fine;
    -> /
+--------+------------+------+
```

```
| rollno | dor        | amt  |
+--------+------------+------+
|      6 | 2024-08-05 |  780 |
+--------+------------+------+
1 row in set (0.00 sec)

mysql> call fine_cal(7);
    -> /
Query OK, 1 row affected (0.19 sec)

mysql> call fine_cal(8);
    -> /
Query OK, 1 row affected (0.38 sec)

mysql> call fine_cal(9);
    -> /
Query OK, 1 row affected (0.17 sec)

mysql> select * from fine;
    -> /
+--------+------------+------+
| rollno | dor        | amt  |
+--------+------------+------+
|      6 | 2024-08-05 |  780 |
|      7 | 2024-08-05 |    5 |
|      8 | 2024-08-05 |    0 |
|      9 | 2024-08-05 |  125 |
+--------+------------+------+
4 rows in set (0.00 sec)

mysql> select * from book_borrower;
    -> /
+--------+----------+------------+-----------+--------+
| rollno | name     | doi        | book_name | status |
+--------+----------+------------+-----------+--------+
|      6 | Ankush   | 2024-05-15 | CET       | R      |
|      7 | Yogita   | 2024-07-20 | NEET      | R      |
|      8 | Sujal    | 2024-08-01 | JEE       | R      |
|      9 | Shreyash | 2024-07-01 | NATA      | R      |
+--------+----------+------------+-----------+--------+
4 rows in set (0.00 sec)
```