EXPERIMENT NO. 4 CODE:

atharva@atharva-mac:~$ sudo mysql [sudo]
password for atharva:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.34-0ubuntu0.22.04.1 (Ubuntu) Copyright
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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> USE ATHARVA;

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 Library_Master(Roll_no INT, Name VARCHAR(30), Date_of_Issue DATE, Name_of_Book VARCHAR(30), Status VARCHAR(2));

Query OK, 0 rows affected (6.33 sec)

mysql> CREATE TABLE FINE(Roll_no INT, Name VARCHAR(30), dt_Date DATE, Amt INT); Query

OK, 0 rows affected (0.09 sec)

mysql> INSERT INTO Library_Master VALUES(1,"Rajesh","2023-10-01","Wide Sea","I"),(2,"Shubham","2023-08-02","The Metamorphosis","I"),(5,"Saurabh","2023-09-23","Grand Union","I"),(8,"Revati","2023-09-25","The House On Mango Street","I"),(4,"Sharmila","2023-09-10","The Lottery","I");

Query OK, 5 rows affected (0.18 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> desc Library_Master;

```
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| Roll_no       | int         | YES  |     | NULL    |       |
| Name          | varchar(30) | YES  |     | NULL    |       |
| Date_of_Issue | date        | YES  |     | NULL    |       |
| Name_of_Book  | varchar(30) | YES  |     | NULL    |       |
| Status        | varchar(2)  | YES  |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
```

5 rows in set (0.00 sec)

mysql> desc FINE;

```
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| Roll_no | int         | YES  |     | NULL    |       |
| Name    | varchar(30) | YES  |     | NULL    |       |
| dt_Date | date        | YES  |     | NULL    |       |
| Amt     | int         | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
```

4 rows in set (0.01 sec)

mysql> SELECT * FROM Library_Master;

```
+---------+----------+---------------+---------------------------+--------+
| Roll_no | Name     | Date_of_Issue | Name_of_Book              | Status |
+---------+----------+---------------+---------------------------+--------+
|       1 | Rajesh   | 2023-09-01    | Wide Sea                  | I      |
|       2 | Shubham  | 2023-08-02    | The Metamorphosis         | I      |
|       5 | Saurabh  | 2023-08-03    | Grand Union               | I      |
|       8 | Revati   | 2023-08-25    | The House On Mango Street  | I      |
|       4 | Sharmila | 2023-09-10    | The Lottery               | I      |
+---------+----------+---------------+---------------------------+--------+
```
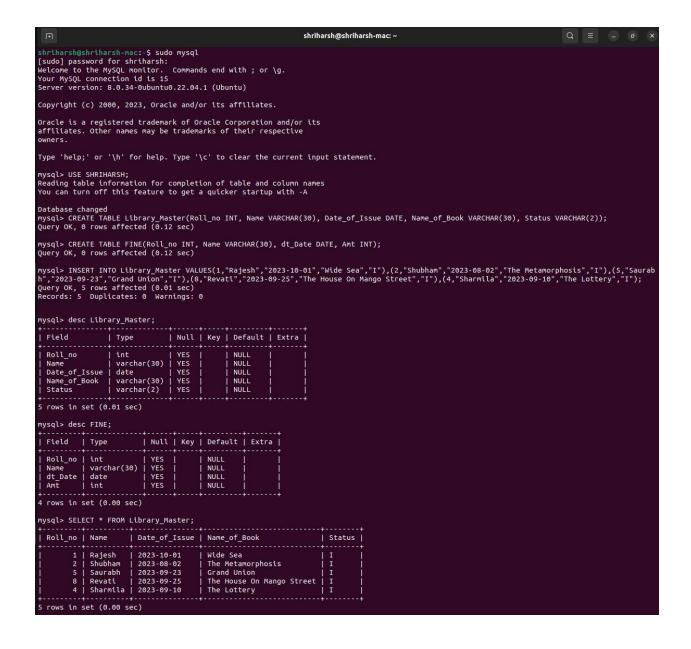
5 rows in set (0.00 sec)


```
mysql> Delimiter //
mysql> CREATE PROCEDURE U(R_Roll INT,R_Name VARCHAR(30))
    -> BEGIN
    -> Declare X integer;
    -> Declare continue handler for not found
    -> BEGIN
    -> SELECT 'NOT FOUND';
    -> END;
    -> SELECT datediff(curdate(),Date_of_Issue) INTO X FROM Library_Master WHERE
Roll_no=R_Roll;
    -> IF (X>15 && X<30) THEN INSERT INTO FINE VALUES(R_Roll,R_Name,curdate(),(X*5));
    -> ELSEIF(X>30) THEN INSERT INTO FINE VALUES(R_Roll,R_Name,curdate(),(X*50));
-> END IF;
    -> UPDATE Library_Master SET Status='R' WHERE Roll_no=R_Roll;
    -> END;
    -> //
Query OK, 0 rows affected, 1 warning (0.02 sec)



mysql> SELECT * FROM FINE;
    -> //
Empty set (0.00 sec)


mysql> CALL U(1,'Rajesh');
    -> //
Query OK, 1 row affected (0.02 sec)


mysql> CALL U(2,'Shubham');
    -> //
Query OK, 1 row affected (0.02 sec)
mysql> CALL U(5,'Saurabh');
    -> //
Query OK, 1 row affected (0.02 sec) mysql>
CALL U(8,'Revati');
    -> //
Query OK, 1 row affected (0.02 sec)
mysql> CALL U(4,'Sharmila');
    -> //
Query OK, 1 row affected (0.02 sec)
```

mysql> Select * from FINE;

```
+---------+----------+------------+------+
| Roll_no | Name     | dt_Date    | Amt  |
+---------+----------+------------+------+
|       2 | Shubham  | 2023-10-06 | 3250 |
|       4 | Sharmila | 2023-10-06 |  130 |
+---------+----------+------------+------+
```

2 rows in set (0.01 sec)

```
shriharsh@shriharsh-mac:~$ sudo mysql
[sudo] password for shriharsh:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 15
Server version: 8.0.34-0ubuntu0.22.04.1 (Ubuntu)

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

mysql> USE SHRIHARSH;
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 Library_Master(Roll_no INT, Name VARCHAR(30), Date_of_Issue DATE, Name_of_Book VARCHAR(30), Status VARCHAR(2));
Query OK, 0 rows affected (0.12 sec)

mysql> CREATE TABLE FINE(Roll_no INT, Name VARCHAR(30), dt_Date DATE, Amt INT);
Query OK, 0 rows affected (0.12 sec)

mysql> INSERT INTO Library_Master VALUES(1,"Rajesh","2023-10-01","Wide Sea","I"),(2,"Shubham","2023-08-02","The Metamorphosis","I"),(5,"Saurab
h","2023-09-23","Grand Union","I"),(8,"Revati","2023-09-25","The House On Mango Street","I"),(4,"Sharmila","2023-09-10","The Lottery","I");
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> desc Library_Master;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| Roll_no       | int         | YES  |     | NULL    |       |
| Name          | varchar(30) | YES  |     | NULL    |       |
| Date_of_Issue | date        | YES  |     | NULL    |       |
| Name_of_Book  | varchar(30) | YES  |     | NULL    |       |
| Status        | varchar(2)  | YES  |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
5 rows in set (0.01 sec)

mysql> desc FINE;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| Roll_no | int         | YES  |     | NULL    |       |
| Name    | varchar(30) | YES  |     | NULL    |       |
| dt_Date | date        | YES  |     | NULL    |       |
| Amt     | int         | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> SELECT * FROM Library_Master;
+---------+----------+---------------+--------------------------+--------+
| Roll_no | Name     | Date_of_Issue | Name_of_Book             | Status |
+---------+----------+---------------+--------------------------+--------+
|       1 | Rajesh   | 2023-10-01    | Wide Sea                 | I      |
|       2 | Shubham  | 2023-08-02    | The Metamorphosis        | I      |
|       5 | Saurabh  | 2023-09-23    | Grand Union              | I      |
|       8 | Revati   | 2023-09-25    | The House On Mango Street | I      |
|       4 | Sharmila | 2023-09-10    | The Lottery              | I      |
+---------+----------+---------------+--------------------------+--------+
5 rows in set (0.00 sec)
```

```
mysql> Delimiter //
mysql> CREATE PROCEDURE U(R_Roll INT,R_Name VARCHAR(30))
    -> BEGIN
    -> Declare X integer;
    -> Declare continue handler for not found
    -> BEGIN
    -> SELECT 'NOT FOUND';
    -> END;
    -> SELECT datediff(curdate(),Date_of_Issue) INTO X FROM Library_Master WHERE Roll_no=R_Roll;
    -> IF (X>15 && X<30) THEN INSERT INTO FINE VALUES(R_Roll,R_Name,curdate(),(X*5));
    -> ELSEIF(X>30) THEN INSERT INTO FINE VALUES(R_Roll,R_Name,curdate(),(X*50));
    -> END IF;
    -> UPDATE Library_Master SET Status='R' WHERE Roll_no=R_Roll;
    -> END;
    -> //
Query OK, 0 rows affected, 1 warning (0.02 sec)

mysql> SELECT * FROM FINE;
    -> //
Empty set (0.00 sec)

mysql> CALL U(1,'Rajesh');
    -> //
Query OK, 1 row affected (0.01 sec)

mysql> Call U(2,'Shubham');
    -> //
Query OK, 1 row affected (1.79 sec)

mysql> Call U(5,'Saurabh');
    -> //
Query OK, 1 row affected (0.07 sec)

mysql> Call U(8,'Revati');
    -> //
Query OK, 1 row affected (0.01 sec)
mysql> Call U(4,'Sharmila');
    -> //
Query OK, 1 row affected (0.04 sec)

mysql> Select * from FINE;
    -> //
+---------+----------+------------+------+
| Roll_no | Name     | dt_Date    | Amt  |
+---------+----------+------------+------+
|       2 | Shubham  | 2023-10-06 | 3250 |
|       4 | Sharmila | 2023-10-06 |  130 |
+---------+----------+------------+------+
2 rows in set (0.00 sec)
```