mysql> show databases;

+-----------------------------+

| Database |

+-----------------------------+

| 17thsep\_procedure\_function |

| hosiptal\_record\_assign3 |

| information\_schema |

| library |

| moviedb |

| mysql |

| performance\_schema |

| sakila |

| sys |

| t20worldcup\_2021\_grpa\_prac2 |

| world |

+-----------------------------+

11 rows in set (0.04 sec)

mysql> Create database Assignment4;

Query OK, 1 row affected (0.01 sec)

mysql> Use Assignment4;

Database changed

mysql> create table borrower(Roll\_No int primary key not null,Name varchar(20),DateofIssue date,NameofBook varchar(10),Status varchar(2));

Query OK, 0 rows affected (0.04 sec)

mysql> desc borrower;

+-------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------+-------------+------+-----+---------+-------+

| Roll\_No | int | NO | PRI | NULL | |

| Name | varchar(20) | YES | | NULL | |

| DateofIssue | date | YES | | NULL | |

| NameofBook | varchar(10) | YES | | NULL | |

| Status | varchar(2) | YES | | NULL | |

+-------------+-------------+------+-----+---------+-------+

5 rows in set (0.01 sec)

mysql> create table Fine(Roll\_no int ,Day int ,Amt\_Fine int);

Query OK, 0 rows affected (0.02 sec)

mysql> desc Fine;

+----------+------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+------+------+-----+---------+-------+

| Roll\_no | int | YES | | NULL | |

| Day | int | YES | | NULL | |

| Amt\_Fine | int | YES | | NULL | |

+----------+------+------+-----+---------+-------+

3 rows in set (0.00 sec)

mysql> insert into borrower values(1,'Kaustubh',"2021-04-03","DBMS","I");

Query OK, 1 row affected (0.01 sec)

mysql> insert into borrower values(2,'Onasvee',"2021-06-13","CNS","I");

Query OK, 1 row affected (0.00 sec)

mysql> insert into borrower values(4,'Harsh',"2020-11-25","SPOS","I");

Query OK, 1 row affected (0.00 sec)

mysql> insert into borrower values(5,'Akash',"2021-11-1","TOC","I");

Query OK, 1 row affected (0.00 sec)

mysql> insert into borrower values(5,'Himanshu',"2021-10-14","EL\_1","I");

ERROR 1062 (23000): Duplicate entry '5' for key 'borrower.PRIMARY'

mysql> insert into borrower values(7,'Ankit',"2021-10-14","EL\_1","I");

Query OK, 1 row affected (0.00 sec)

mysql> insert into borrower values(3,'Vaishnavi',"2021-10-14","EL\_1","I");

Query OK, 1 row affected (0.01 sec)

mysql> insert into borrower values(6,'Ankur',"2021-10-14","EL\_1","I");

Query OK, 1 row affected (0.01 sec)

mysql> Select \* from borrower;

+---------+-----------+-------------+------------+--------+

| Roll\_No | Name | DateofIssue | NameofBook | Status |

+---------+-----------+-------------+------------+--------+

| 1 | Kaustubh | 2021-04-03 | DBMS | I |

| 2 | Onasvee | 2021-06-13 | CNS | I |

| 3 | Vaishnavi | 2021-10-14 | EL\_1 | I |

| 4 | Harsh | 2020-11-25 | SPOS | I |

| 5 | Akash | 2021-11-01 | TOC | I |

| 6 | Ankur | 2021-10-14 | EL\_1 | I |

| 7 | Ankit | 2021-10-14 | EL\_1 | I |

+---------+-----------+-------------+------------+--------+

7 rows in set (0.00 sec)

mysql> Select \* from Fine;

Empty set (0.00 sec)

mysql> delimiter //

mysql> create procedure proc\_library(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 Roll\_no=roll and NameofBook=book\_name;

-> select issue\_date;

-> select datediff(current\_date,issue\_date) into no\_of\_days from borrower where Roll\_no=roll;

-> select no\_of\_days;

-> if no\_of\_days>=15 and no\_of\_days<=30 and NameofBook=book\_name

-> then

-> set fine\_amount:=no\_of\_days\*5;

-> elseif no\_of\_days>30 and NameofBook=book\_name then set fine\_amount:=no\_of\_days\*50;

-> end if;

-> update borrower set status="R" where Roll\_no=roll;

-> if fine\_amount>=0 and NameofBook=book\_name 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\_library(1,"DBMS");

-> //

+------------+

| issue\_date |

+------------+

| 2021-04-03 |

+------------+

1 row in set (0.01 sec)

+------------+

| no\_of\_days |

+------------+

| 242 |

+------------+

1 row in set (0.01 sec)

Query OK, 1 row affected (0.04 sec)

mysql> select \* from borrower;

-> //

+---------+-----------+-------------+------------+--------+

| Roll\_No | Name | DateofIssue | NameofBook | Status |

+---------+-----------+-------------+------------+--------+

| 1 | Kaustubh | 2021-04-03 | DBMS | I |

| 2 | Onasvee | 2021-06-13 | CNS | I |

| 3 | Vaishnavi | 2021-10-14 | EL\_1 | I |

| 4 | Harsh | 2020-11-25 | SPOS | I |

| 5 | Akash | 2021-11-01 | TOC | I |

| 6 | Ankur | 2021-10-14 | EL\_1 | I |

| 7 | Ankit | 2021-10-14 | EL\_1 | I |

+---------+-----------+-------------+------------+--------+

7 rows in set (0.00 sec)

mysql> select \* from Fine;//

+---------+------+----------+

| Roll\_no | Day | Amt\_Fine |

+---------+------+----------+

| 1 | 242 | 12100 |

+---------+------+----------+

1 row in set (0.00 sec)

mysql> call proc\_library(1,"DBMS");

-> //

+------------+

| issue\_date |

+------------+

| 2021-04-03 |

+------------+

1 row in set (0.00 sec)

+------------+

| no\_of\_days |

+------------+

| 242 |

+------------+

1 row in set (0.02 sec)

Query OK, 1 row affected (0.03 sec)

mysql> select \* from borrower;

-> //

+---------+-----------+-------------+------------+--------+

| Roll\_No | Name | DateofIssue | NameofBook | Status |

+---------+-----------+-------------+------------+--------+

| 1 | Kaustubh | 2021-04-03 | DBMS | R |

| 2 | Onasvee | 2021-06-13 | CNS | I |

| 3 | Vaishnavi | 2021-10-14 | EL\_1 | I |

| 4 | Harsh | 2020-11-25 | SPOS | I |

| 5 | Akash | 2021-11-01 | TOC | I |

| 6 | Ankur | 2021-10-14 | EL\_1 | I |

| 7 | Ankit | 2021-10-14 | EL\_1 | I |

+---------+-----------+-------------+------------+--------+

7 rows in set (0.00 sec)

mysql>exit