

```
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		
2	Onasvee	2021-06-13	CNS		
3	Vaishnavi	2021-10-14	EL_1		
4	Harsh	2020-11-25	SPOS		
5	Akash	2021-11-01	TOC		
6	Ankur	2021-10-14	EL_1		
7	Ankit	2021-10-14	EL_1		

```
+-----+-----+-----+-----+-----+
```

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
```