

```
stu@stu-Vostro-3471:~$ sudo mysql  
[sudo] password for stu:  
Welcome to the MySQL monitor. Commands end with ; or \g.  
Your MySQL connection id is 11  
Server version: 8.0.42-Ubuntu0.20.04.1 (Ubuntu)
```

Copyright (c) 2000, 2025, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

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

```
mysql> create database library;  
Query OK, 1 row affected (0.10 sec)
```

```
mysql> use library;  
Database changed  
mysql> create table Borrower(Roll_no int, Name varchar(30), DateofIssue date,  
NameofBook varchar(50), Status char(1));  
Query OK, 0 rows affected (0.93 sec)
```

```
mysql> create table Fine(Roll_no int, Date date, Amt int);  
Query OK, 0 rows affected (0.47 sec)
```

```
mysql> insert into Borrower values(1, 'Aniket','2025-09-25','DBMS','I'),(2, 'Sanket',  
'2025-10-05','SQL','I');  
Query OK, 2 rows affected (0.09 sec)  
Records: 2 Duplicates: 0 Warnings: 0
```

```
mysql> select *from Borrower;  
+-----+-----+-----+-----+  
| Roll_no | Name | DateofIssue | NameofBook | Status |  
+-----+-----+-----+-----+  
| 1 | Aniket | 2025-09-25 | DBMS | I |  
| 2 | Sanket | 2025-10-05 | SQL | I |  
+-----+-----+-----+-----+  
2 rows in set (0.00 sec)
```

```
mysql> delimiter //  
mysql> create procedure return_book(IN p_roll int, IN p_book varchar(50))  
-> BEGIN
```

```

-> DECLARE v_days INT;
-> DECLARE v_fine INT DEFAULT 0;
-> DECLARE v_issue DATE;
-> DECLARE exit handler for sqlexception
-> BEGIN
-> SELECT 'Error occurred while returning the book' AS Message;
-> ROLLBACK;
-> END;
-> START TRANSACTION;
-> SELECT DateofIssue INTO v_issue
-> FROM Borrower
-> WHERE Roll_no = p_roll AND NameofBook = p_book AND Status = 'I';
->
-> SET v_days = DATEDIFF(CURDATE(), v_issue);
-> IF v_days > 30 THEN
-> SET v_fine = v_days * 50;
-> ELSEIF v_days >= 15 THEN
-> SET v_fine = v_days * 5;
-> ELSE
-> SET v_fine = 0;
-> END IF;
-> UPDATE Borrower
-> SET Status = 'R'
-> WHERE Roll_no = p_roll AND NameofBook = p_book;
-> IF v_fine > 0 THEN
-> INSERT INTO Fine VALUES (p_roll, CURDATE(), v_fine);
-> END IF;
-> COMMIT;
-> SELECT CONCAT('Book Returned Successfully. Fine = Rs.', v_fine) AS
Message;
-> END //
Query OK, 0 rows affected (0.10 sec)

```

```

mysql> DELIMITER ;
mysql> call return_book(1, 'DBMS');
+-----+
| Message          |
+-----+
| Book Returned Successfully. Fine = Rs.2000 |
+-----+
1 row in set (0.06 sec)

```

Query OK, 0 rows affected (0.06 sec)

```
mysql> select * from Borrower;
+-----+-----+-----+-----+
| Roll_no | Name   | DateofIssue | NameofBook | Status |
+-----+-----+-----+-----+
|     1 | Aniket | 2025-09-25 | DBMS      | R     |
|     2 | Sanket | 2025-10-05 | SQL       | I     |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select * from Fine;
+-----+-----+-----+
| Roll_no | Date    | Amt   |
+-----+-----+-----+
|     1 | 2025-11-04 | 2000 |
+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql>
```