

## Assignment No. 4-A

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Roll No: TEAI&DB76

**Title:** Write a PL/SQL stored procedure and function.

**Code:**

```
mysql> CREATE PROCEDURE studfine(IN roll INT, IN nm VARCHAR(50))
-> BEGIN
-> DECLARE i_date DATE;
-> DECLARE diff INT;
-> DECLARE fine_amt INT; -- Declare the fine_amt variable
->
-> DECLARE EXIT HANDLER FOR SQLEXCEPTION
-> BEGIN
-> SELECT "Table not found";
-> END;
->
-> SELECT Date_of_issue INTO i_date FROM Borrower WHERE roll_no = roll AND Name = nm;
-> SELECT DATEDIFF(CURDATE(), i_date) INTO diff;
-> IF
-> IF (diff >= 15 AND diff <= 30) THEN
-> SET fine_amt = diff * 5;
-> INSERT INTO Fine VALUES (roll, CURDATE(), fine_amt);
-> ELSEIF (diff > 30) THEN
-> SET fine_amt = diff * 50;
-> INSERT INTO Fine VALUES (roll, CURDATE(), fine_amt);
-> END IF;
->
-> UP
-> UPDATE Borrower SET Status = "Return" WHERE roll_no = roll AND Name = nm;
-> END$$
IMITER ;Query OK, 0 rows affected (0.02 sec)

mysql>
mysql> DELIMITER ;
mysql> call studfine(1,"Pooja");
Query OK, 0 rows affected (0.00 sec)

mysql> select * from Borrower;
+-----+-----+-----+-----+-----+
| roll_no | Name   | Date_of_issue | Book_name | Status |
+-----+-----+-----+-----+-----+
| 1       | Himanshu | 2017-06-15   | SEPM     | Issued |
| 2       | Abhay   | 2023-08-17   | TOC      | Issued |
| 3       | Pujja   | 2023-06-13   | CN       | Issued |
| 4       | Geta    | 2023-08-20   | TOC      | Issued |
+-----+-----+-----+-----+-----+
```

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mysql> call studfine(1,"Pooja");
Query OK, 0 rows affected (0.00 sec)

mysql> select * from Borrower;
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| roll_no | Name   | Date_of_issue | Book_name | Status |
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| 1       | Himanshu | 2017-06-15   | SEPM     | Issued |
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| 4       | Geta    | 2023-08-20   | TOC      | Issued |
| 5       | Kalyani | 2023-06-24   | ISEM     | Issued |
| 6       | Dhanu   | 2023-07-23   | ISEM     | Issued |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> select * from fine
-> ;
ERROR 1146 (42S02): Table 'practical4.fine' doesn't exist
mysql> select * from Fine;
Empty set (0.00 sec)

mysql> call studfine(3,"Abhay");
Query OK, 0 rows affected (0.00 sec)

mysql> select * from Borrower;
+-----+-----+-----+-----+-----+
| roll_no | Name   | Date_of_issue | Book_name | Status |
+-----+-----+-----+-----+-----+
| 1       | Himanshu | 2017-06-15   | SEPM     | Issued |
| 2       | Abhay   | 2023-08-17   | TOC      | Issued |
| 3       | Pujja   | 2023-06-13   | CN       | Issued |
| 4       | Geta    | 2023-08-20   | TOC      | Issued |
| 5       | Kalyani | 2023-06-24   | ISEM     | Issued |
| 6       | Dhanu   | 2023-07-23   | ISEM     | Issued |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> |
```