Microsoft Windows [Version 10.0.19045.4894]

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C:\Users\ABHISHEK GHARAT>COLOR 0A

C:\Users\Admin>mysql -u root -p

Enter password: ****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 8

Server version: 8.0.39 MySQL Community Server - GPL

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

mysql> use library;

Database changed

mysql> CREATE TABLE Borrower (

    ->   Rollno INT(4),

    ->   Name VARCHAR(20),

    ->   DateofIssue DATE,

    ->   NameofBook VARCHAR(30),

    ->   Status VARCHAR(10)

    ->);

Query OK, 0 rows affected, 1 warning (0.06 sec)

```
mysql> INSERT INTO Borrower VALUES

    -> (41, 'Abhisek', '2022-09-19', 'Operating System', 'I'),

    -> (05, 'Karan', '2022-07-24', 'Object Oriented Programming', 'I'),

    -> (23, 'Baliram', '2022-06-12', 'Microprocessor', 'I'),

    -> (48, 'Mayur', '2022-04-19', 'Mechanics', 'I'),

    -> (47, 'Sanket', '2022-05-20', 'DS', 'I'),

    -> (25, 'Vishwa', '2022-06-21', 'DELD', 'I');
Query OK, 6 rows affected (0.01 sec)

Records: 6  Duplicates: 0  Warnings: 0


mysql> CREATE TABLE Fine (

    ->    Rollno INT(4),

    ->    Date DATE,

    ->    Amount INT(10)

    -> );
Query OK, 0 rows affected, 2 warnings (0.04 sec)


mysql>
mysql> DELIMITER //
mysql> CREATE PROCEDURE calc_Fine(IN r INT, IN b VARCHAR(30))

    -> BEGIN

    ->    DECLARE doi DATE;

    ->    DECLARE diff INT;

    -> SELECT DateofIssue INTO doi

    ->    FROM Borrower

    ->    WHERE Rollno = r AND NameofBook = b;

    -> SELECT DATEDIFF(CURDATE(), doi) INTO diff;

    -> IF diff >= 15 AND diff <= 30 THEN

    ->       INSERT INTO Fine VALUES(r, CURDATE(), diff * 5);
```

```
    ->    END IF;

    ->  IF diff > 30 THEN

    ->        INSERT INTO Fine VALUES(r, CURDATE(), diff * 50);

    ->    END IF;

    -> END //
Query OK, 0 rows affected (0.01 sec)


mysql> CREATE PROCEDURE submit(IN r INT)

    -> BEGIN

    ->    UPDATE Borrower SET Status = 'R' WHERE Rollno = r;

    ->    DELETE FROM Fine WHERE Rollno = r;

    -> END //
Query OK, 0 rows affected (0.01 sec)


mysql> DELIMITER ;
mysql> CALL calc_Fine(41, 'Operating System');
Query OK, 1 row affected (0.02 sec)


mysql> CALL calc_Fine(05, 'Object Oriented Programming');
Query OK, 1 row affected (0.01 sec)


mysql> CALL calc_Fine(23, 'Microprocessor');
Query OK, 1 row affected (0.01 sec)


mysql> CALL calc_Fine(48, 'Mechanics');
Query OK, 1 row affected (0.01 sec)


mysql> CALL calc_Fine(47, 'DS');
Query OK, 1 row affected (0.00 sec)
```

mysql> CALL calc_Fine(25, 'DELD');

Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM Fine;

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

| Rollno | Date | Amount |

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

| 41 | 2024-10-10 | 37600 |

| 5 | 2024-10-10 | 40450 |

| 23 | 2024-10-10 | 42550 |

| 48 | 2024-10-10 | 45250 |

| 47 | 2024-10-10 | 43700 |

| 25 | 2024-10-10 | 42100 |

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

6 rows in set (0.00 sec)

mysql> CALL submit(41);

Query OK, 1 row affected (0.02 sec)

mysql> CALL submit(05);

Query OK, 1 row affected (0.01 sec)

mysql> CALL submit(23);

Query OK, 1 row affected (0.01 sec)

mysql> CALL submit(48);

Query OK, 1 row affected (0.01 sec)

```
mysql> CALL submit(47);

Query OK, 1 row affected (0.01 sec)


mysql> CALL submit(25);

Query OK, 1 row affected (0.01 sec)


mysql>

mysql> SELECT * FROM Fine;

Empty set (0.00 sec)


mysql> SELECT * FROM Borrower;

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

| Rollno | Name   | DateofIssue | NameofBook                | Status |

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

|     41 | Abhisek | 2022-09-19 | Operating System          | R      |

|      5 | Karan  | 2022-07-24  | Object Oriented Programming | R    |

|     23 | Baliram | 2022-06-12 | Microprocessor            | R      |

|     48 | Mayur  | 2022-04-19  | Mechanics                 | R      |

|     47 | Sanket | 2022-05-20  | DS                        | R      |

|     25 | Vishwa | 2022-06-21  | DELD                      | R      |

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

6 rows in set (0.00 sec)
```