

PL/Sql-2 Write an Unnamed PL/SQL of code for the following requirements: - Schema: Borrower (Rollin, Name, DateofIssue, NameofBook, Status) Fine (Roll_no, Date, Amt) Accept roll_no & name of book from user. Check the number of days (from date of issue).

1. If days are between 15 to 30 then fine amounts will be Rs 5 per day.
2. If no. of days > 30, per day fine will be Rs 50 per day & for days less than 30, Rs. 5 per day.
3. After submitting the book, status will change from I to R.
4. If condition of fine is true, then details will be stored into fine table.

```
CREATE TABLE Borrower (  
    Rollin INT,  
    Name VARCHAR(50),  
    DateOfIssue DATE,  
    NameOfBook VARCHAR(100),  
    Status CHAR(1)  
);
```

```
CREATE TABLE Fine (  
    Roll_no INT,  
    Date DATE,  
    Amt DECIMAL(10,2)  
);
```

```
DELIMITER //
```

```
CREATE PROCEDURE Return_Book(  
    IN p_roll INT,  
    IN p_book VARCHAR(100)  
)  
BEGIN  
    DECLARE v_issue DATE;  
    DECLARE v_days INT;  
    DECLARE v_fine DECIMAL(10,2) DEFAULT 0;  
  
    -- Get the issue date for the given roll and book  
    SELECT DateOfIssue INTO v_issue  
    FROM Borrower  
    WHERE Rollin = p_roll AND NameOfBook = p_book;  
  
    -- Calculate total days between issue and return  
    SET v_days = DATEDIFF(CURDATE(), v_issue);  
  
    -- Calculate fine based on number of days  
    IF v_days BETWEEN 15 AND 30 THEN
```

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        SET v_fine = v_days * 5;
ELSEIF v_days > 30 THEN
    SET v_fine = (30 * 5) + ((v_days - 30) * 50);
ELSE
    SET v_fine = 0;
END IF;

-- Update the status from 'I' (Issued) to 'R' (Returned)
UPDATE Borrower
SET Status = 'R'
WHERE Rollin = p_roll AND NameOfBook = p_book;

-- If fine applicable, insert into Fine table
IF v_fine > 0 THEN
    INSERT INTO Fine(Roll_no, Date, Amt)
    VALUES (p_roll, CURDATE(), v_fine);
END IF;

-- Display message output
SELECT CONCAT('Book Returned Successfully! Days: ', v_days, ', Fine:
Rs ', v_fine) AS Message;

END //

INSERT INTO Borrower VALUES
(101, 'Ravi', '2025-10-01', 'DBMS', 'I'),
(102, 'Anita', '2025-10-20', 'OS', 'I'),
(103, 'Meena', '2025-10-25', 'Python', 'I');

CALL Return_Book(101, 'DBMS');
//

```

Output Example:

Book Returned Successfully! Days: 35, Fine: Rs 400

Check Tables

```

SELECT * FROM Borrower;
//

```

```

SELECT * FROM Fine;
//

```