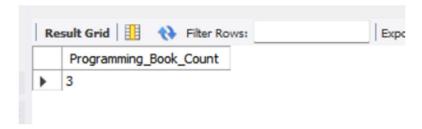
```
-- Task :Stored Procedures and Functions
-- database
USE library_management_system;
-- Count books by category
DELIMITER //
CREATE PROCEDURE CountBooksInCategory(
  IN categoryName VARCHAR(50),
  OUT totalBooks INT
BEGIN
  -- Count books in the given category
  SELECT COUNT(*) INTO totalBooks
  FROM Books
  WHERE category = categoryName;
  -- Safety: if no books found, return 0
  IF totalBooks IS NULL THEN
    SET totalBooks = 0;
  END IF;
END //
DELIMITER;
```

```
-- Usage
```

CALL CountBooksInCategory('Programming', @count);

SELECT @count AS Programming_Book_Count;

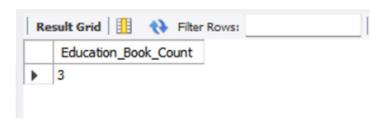
Output:-



CALL CountBooksInCategory('Education', @count);

SELECT @count AS Education_Book_Count;

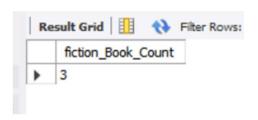
Output:-



CALL CountBooksInCategory('fiction', @count);

SELECT @count AS fiction_Book_Count;

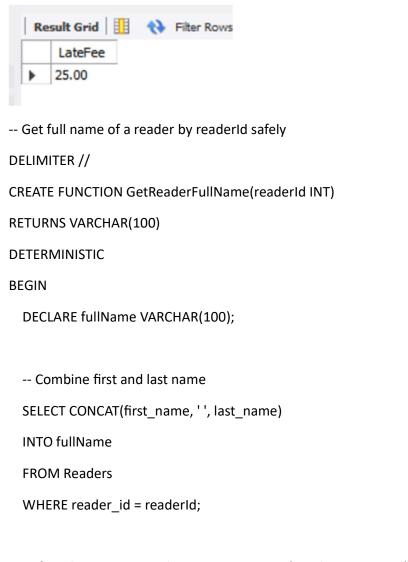
Output:-



```
-- Calculate Late Fee
DELIMITER //
CREATE FUNCTION CalculateLateFee(daysLate INT)
RETURNS DECIMAL(10,2)
DETERMINISTIC
BEGIN
  DECLARE fee DECIMAL(10,2);
  -- Rs. 2.50 per day late
  SET fee = daysLate * 2.50;
  RETURN fee;
END //
DELIMITER;
-- Usage
SELECT CalculateLateFee(5) AS LateFee; -- 5 days late
Output:-
  Result Grid | Filter |
      LateFee
    12.50
SELECT CalculateLateFee(0) AS LateFee; -- 0 days late
Output:-
   LateFee
       0.00
```

SELECT CalculateLateFee(10) AS LateFee; -- 10 days late

Output:-



```
WHERE reader_id = readerId;

-- if reader is not existed so return messege 'Reader Not Found'

IF fullName IS NULL THEN

    RETURN 'Reader Not Found';

ELSE

    RETURN fullName;

END IF;

END //
```

DELIMITER;

-- Usage

SELECT GetReaderFullName(3) AS ReaderName;

Output:-

