```
-- Create a new database
CREATE DATABASE CollegeManagement;
-- Use the newly created database
USE CollegeManagement;
-- Create the SubjectAllotments table
CREATE TABLE SubjectAllotments (
    StudentID varchar(50),
    SubjectID varchar(50),
    Is_Valid bit
);
GO
-- Create the SubjectRequest table
CREATE TABLE SubjectRequest (
    StudentID varchar(50),
    SubjectID varchar(50)
);
GO
-- Insert sample data into SubjectAllotments
INSERT INTO SubjectAllotments (StudentID, SubjectID, Is_Valid)
VALUES
('159103036', 'P01491', 1),
('159103036', 'P01492', 0),
('159103036', 'P01493', 0),
('159103036', 'P01494', 0),
('159103036', 'P01495', 0);
GO
-- Insert a sample request into SubjectRequest
INSERT INTO SubjectRequest (StudentID, SubjectID)
VALUES
('159103036', 'P01496');
-- Create the stored procedure
CREATE PROCEDURE UpdateSubjectAllotments
    @StudentID varchar(50),
    @RequestedSubjectID varchar(50)
AS
BEGIN
    SET NOCOUNT ON;
    -- Check if the student exists in the SubjectAllotments table
    IF EXISTS (SELECT 1 FROM SubjectAllotments WHERE StudentID = @StudentID)
    BEGIN
```

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-- Check if the current subject is different from the requested subject
        IF EXISTS (SELECT 1 FROM SubjectAllotments WHERE StudentID = @StudentID AND
          Is Valid = 1 AND SubjectID != @RequestedSubjectID)
        BEGIN
            -- Invalidate the current subject
            UPDATE SubjectAllotments
            SET Is Valid = 0
            WHERE StudentID = @StudentID AND Is_Valid = 1;
            -- Insert the new subject as valid
            INSERT INTO SubjectAllotments (StudentID, SubjectID, Is_Valid)
            VALUES (@StudentID, @RequestedSubjectID, 1);
        END
        ELSE IF NOT EXISTS (SELECT 1 FROM SubjectAllotments WHERE StudentID =
          @StudentID AND Is_Valid = 1)
        BEGIN
            -- If no current subject is valid, insert the new subject as valid
          -- Rakshit Gupta
            INSERT INTO SubjectAllotments (StudentID, SubjectID, Is Valid)
            VALUES (@StudentID, @RequestedSubjectID, 1);
        END
    END
    ELSE
    BEGIN
        -- If the student does not exist in the SubjectAllotments table, insert the
          new subject as valid
        INSERT INTO SubjectAllotments (StudentID, SubjectID, Is_Valid)
        VALUES (@StudentID, @RequestedSubjectID, 1);
    END
END;
GO
-- Execute the stored procedure
EXEC UpdateSubjectAllotments @StudentID = '159103036', @RequestedSubjectID = 'P01496';
GO
-- Check the updated SubjectAllotments table
SELECT * FROM SubjectAllotments;
G0
```