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Lab 12: Stored Procedures

1:

```
CREATE PROCEDURE dbo.Lab12SP(@TeachingFaculty AS VARCHAR(30), @Student AS VARCHAR(20),
@Course AS INTEGER, @FinalNumericGrade AS DECIMAL(5,2))
AS
      BEGIN
    DECLARE @oldgrade AS INTEGER
      SET @oldgrade = (SELECT FinalGrade FROM CourseEnrollment WHERE CourseId = @Course AND
StudentID = @Student)

      IF EXISTS (SELECT Faculty FROM Courses WHERE Faculty = @TeachingFaculty)
      BEGIN
          IF EXISTS(SELECT StudentId FROM CourseEnrollment  WHERE StudentId = @Student)
               BEGIN
                         IF EXISTS(SELECT CourseId FROM CourseEnrollment WHERE CourseId =
@Course)
                               BEGIN
                                     PRINT 'Sucess, Student's existing grade ' +
CONVERT(VARCHAR(30),@oldgrade) + 'was changed to ' + CONVERT(VARCHAR(30),@FinalNumericGrade)
                                     UPDATE CourseEnrollment
                                           SET FinalGrade = @FinalNumericGrade
                                           WHERE CourseId = @Course

                               END

                         ELSE
                               BEGIN
                               PRINT 'Sucess'
                               UPDATE CourseEnrollment
                                     SET FinalGrade = @FinalNumericGrade
                                     WHERE CourseID = @Course
                               END
          END
        ELSE
                  BEGIN
                  PRINT 'Error: The student is not taking the course you specified.'
                    END
      END

      ELSE
            BEGIN
                  PRINT 'Error: You are not allowed to assign grades for this course'
            END
      END;
```

LAB 12.sql - LCS-VC-MSSQL-01.ad.syr.edu.ssingh11Database (ssingh11 (56))*

```
CREATE PROCEDURE dbo.Lab12SP(@TeachingFaculty AS VARCHAR(30), @Student AS VARCHAR(20),
@Course AS INTEGER, @FinalNumericGrade AS DECIMAL(5,2))
AS
    BEGIN
    DECLARE @oldgrade AS INTEGER
    SET @oldgrade = (SELECT FinalGrade FROM CourseEnrollment WHERE CourseId = @Course AND StudentID = @Student)

    IF EXISTS (SELECT Faculty FROM Courses WHERE Faculty = @TeachingFaculty)
    BEGIN
        IF EXISTS(SELECT StudentId FROM CourseEnrollment  WHERE StudentId = @Student)
           BEGIN
                IF EXISTS(SELECT CourseId FROM CourseEnrollment WHERE CourseId = @Course)
                    BEGIN
                         PRINT 'Sucess, Student's existing grade ' + CONVERT(VARCHAR(30),@oldgrade) + 'was changed to ' + CONVERT(VARCHAR(30),@FinalNumericGrade)
                         UPDATE CourseEnrollment
                            SET FinalGrade = @FinalNumericGrade
                            WHERE CourseId = @Course

                    END

                ELSE
                    BEGIN
                    PRINT 'Sucess'
                    UPDATE CourseEnrollment
                        SET FinalGrade = @FinalNumericGrade
                        WHERE CourseID = @Course
                    END
        END
        ELSE
             BEGIN
             PRINT 'Error: The student is not taking the course you specified.'
             END
    END

    ELSE
        BEGIN
            PRINT 'Error: You are not allowed to assign grades for this course'
        END
    END;
```

100 %

Messages

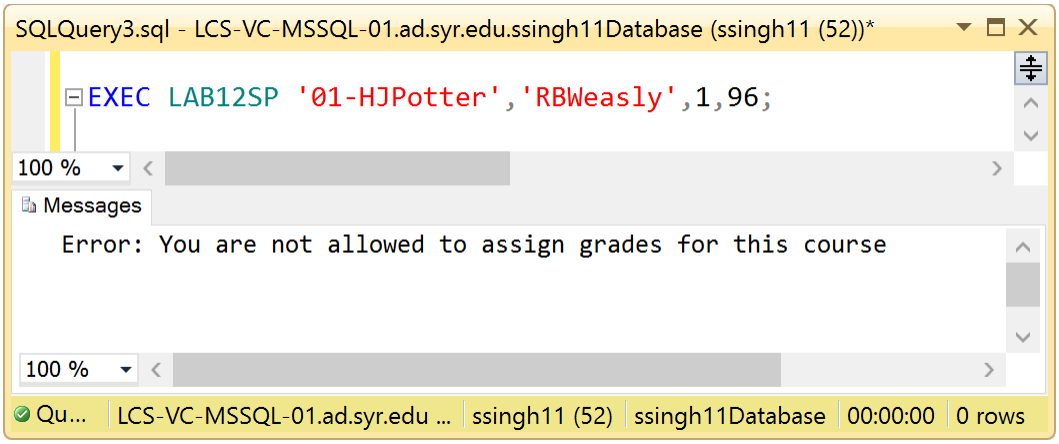
```
Command(s) completed successfully.
```

100 %

Query executed successfully. LCS-VC-MSSQL-01.ad.syr.edu ... ssingh11 (56) ssingh11Database 00:00:00 0 rows

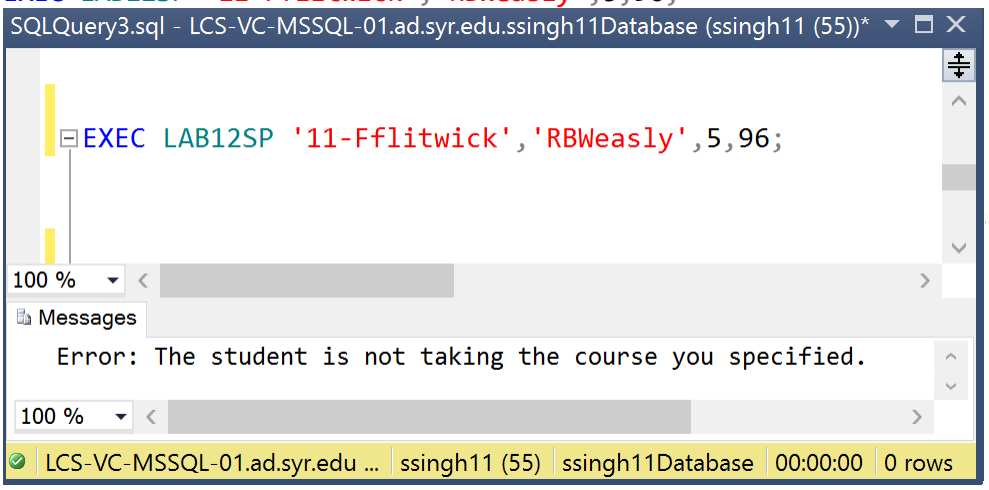
a)

```
EXEC LAB12SP '01-HJPotter','RBWeasly',1,96;
```

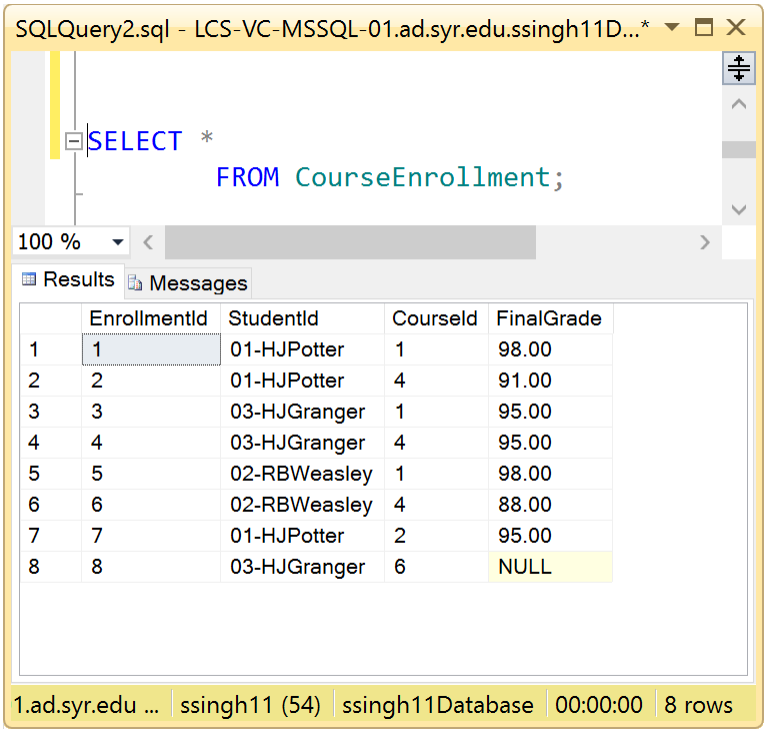


b)

```
EXEC LAB12SP '11-Fflitwick','RBWeasly',5,96;
```

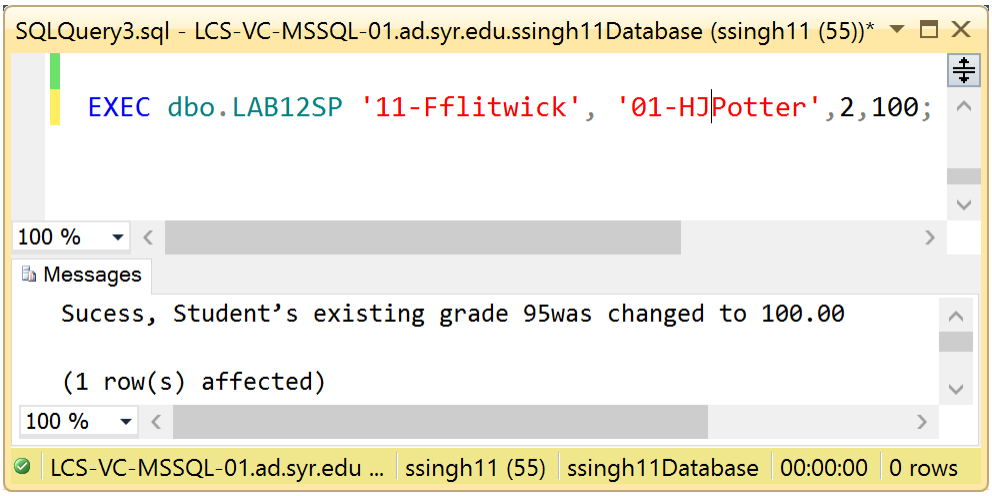


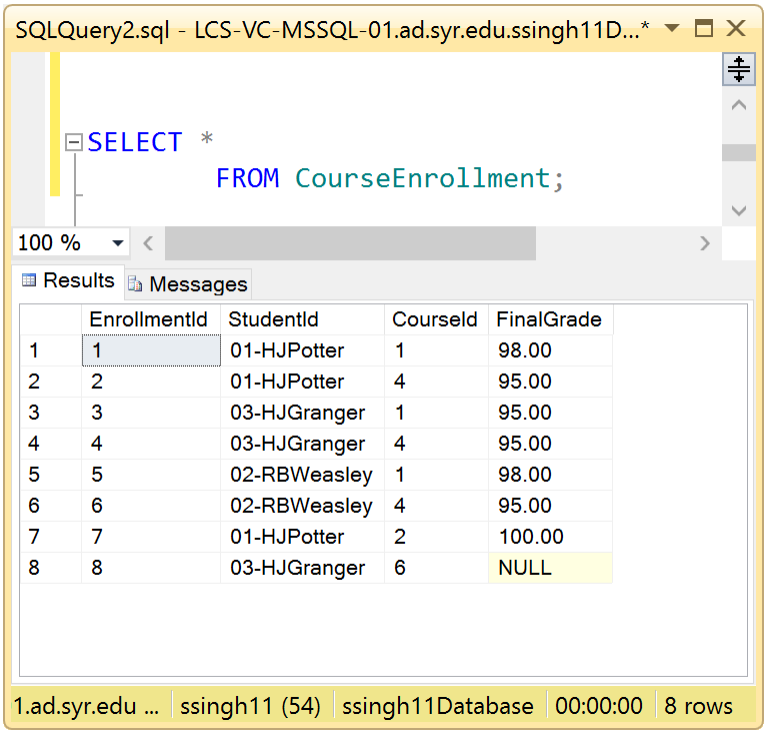
c)



	EnrollmentId	StudentId	CourseId	FinalGrade
1	1	01-HJPotter	1	98.00
2	2	01-HJPotter	4	91.00
3	3	03-HJGranger	1	95.00
4	4	03-HJGranger	4	95.00
5	5	02-RBWeasley	1	98.00
6	6	02-RBWeasley	4	88.00
7	7	01-HJPotter	2	95.00
8	8	03-HJGranger	6	NULL

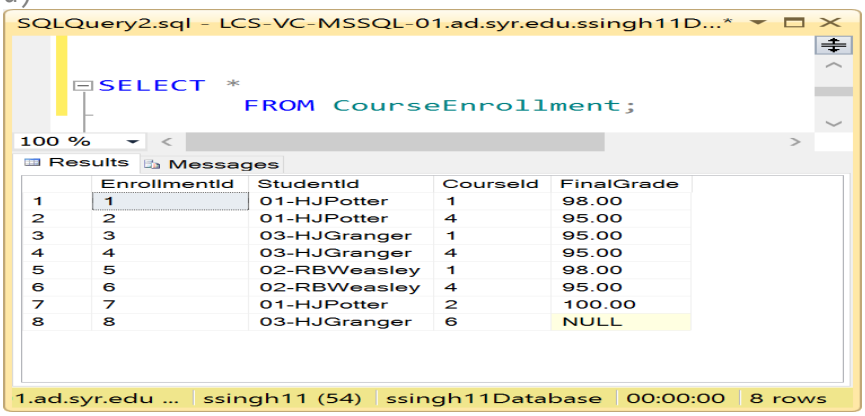
```
EXEC dbo.LAB12SP '11-Fflitwick', '01-HJPotter',2,100;
```



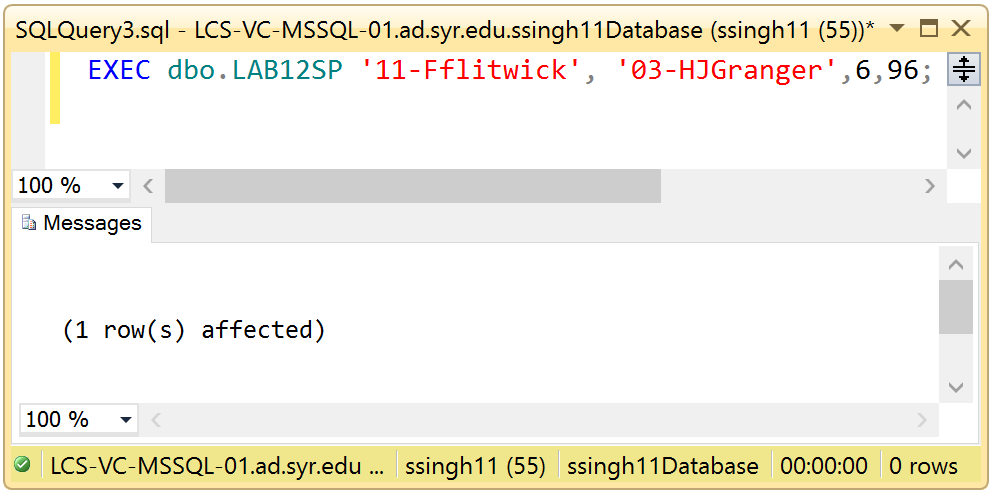


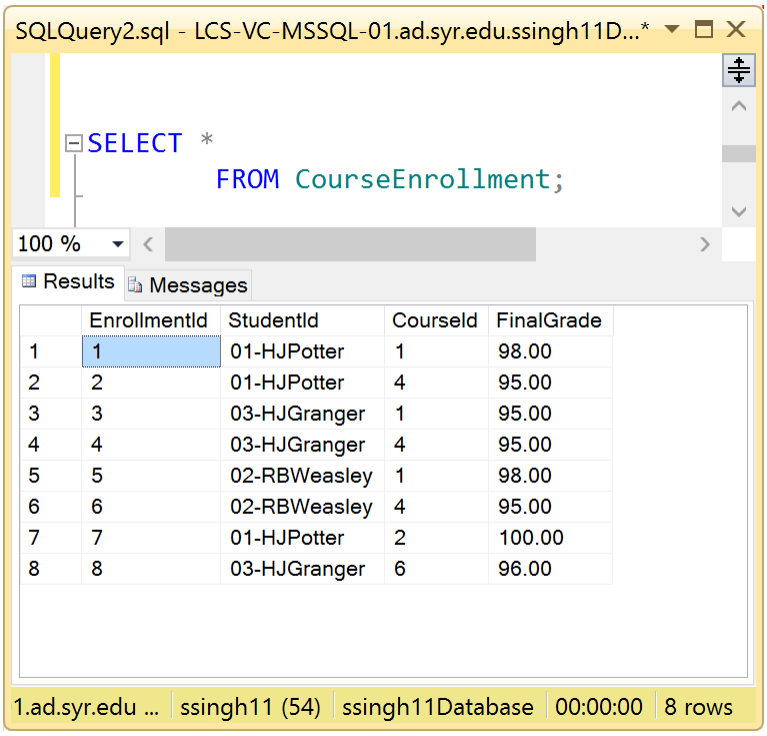
	EnrollmentId	StudentId	CourseId	FinalGrade
1	1	01-HJPotter	1	98.00
2	2	01-HJPotter	4	95.00
3	3	03-HJGranger	1	95.00
4	4	03-HJGranger	4	95.00
5	5	02-RBWeasley	1	98.00
6	6	02-RBWeasley	4	95.00
7	7	01-HJPotter	2	100.00
8	8	03-HJGranger	6	NULL

d)



	EnrollmentId	StudentId	CourseId	FinalGrade
1	1	01-HJPotter	1	98.00
2	2	01-HJPotter	4	95.00
3	3	03-HJGranger	1	95.00
4	4	03-HJGranger	4	95.00
5	5	02-RBWeasley	1	98.00
6	6	02-RBWeasley	4	95.00
7	7	01-HJPotter	2	100.00
8	8	03-HJGranger	6	NULL





3.

```
CREATE PROCEDURE dbo.SPJoin
AS
	BEGIN
	SELECT *
		FROM Courses c INNER JOIN COurseEnrollment ce
		ON c.CourseId = ce.CourseId

	END;
```

SQLQuery1.sql - LCS-VC-MSSQL-01.ad.syr.edu.ssingh11Database (ssingh11 (52))*

```
CREATE PROCEDURE dbo.SPJoin
 AS
     BEGIN
     SELECT *
                 FROM Courses c INNER JOIN COurseEnrollment ce
                 ON c.CourseId = ce.CourseId


     END;
```

100 %

Messages

```
Command(s) completed successfully.
```

100 %

Query executed successfully. | LCS-VC-MSSQL-01.ad.syr.edu ... | ssingh11 (52) | ssingh11Database | 00:00:00 | 0 rows

SQLQuery2.sql - LCS-VC-MSSQL-01.ad.syr.edu.ssingh11Database (ssingh11 (53))*

```
EXEC SPJoin;
```

100 %

Results | Messages

	CourseId	CourseCode	CourseTitle	Faculty	OpenSeats	EnrollmentId	StudentId	CourseId	FinalGrade
1	1	DADA101	Defence Against the Dark Arts BASIC	16-Rhagrid	3	1	01-HJPotter	1	98.00
2	4	CHMS101	Charms BASIC	11-Fflitwick	2	2	01-HJPotter	4	95.00
3	1	DADA101	Defence Against the Dark Arts BASIC	16-Rhagrid	3	3	03-HJGranger	1	95.00
4	4	CHMS101	Charms BASIC	11-Fflitwick	2	4	03-HJGranger	4	95.00
5	1	DADA101	Defence Against the Dark Arts BASIC	16-Rhagrid	3	5	02-RBWeasley	1	98.00
6	4	CHMS101	Charms BASIC	11-Fflitwick	2	6	02-RBWeasley	4	95.00
7	2	DADA201	Defence Against the Dark Arts INTERMEDIATE	16-Rhagrid	2	7	01-HJPotter	2	100.00
8	6	CHMS301	Charms ADVANCED	11-Fflitwick	4	8	03-HJGranger	6	96.00

Query executed successfully. | LCS-VC-MSSQL-01.ad.syr.edu ... | ssingh11 (53) | ssingh11Database | 00:00:00 | 8 rows