Suruchi Singh SUID: 75528759

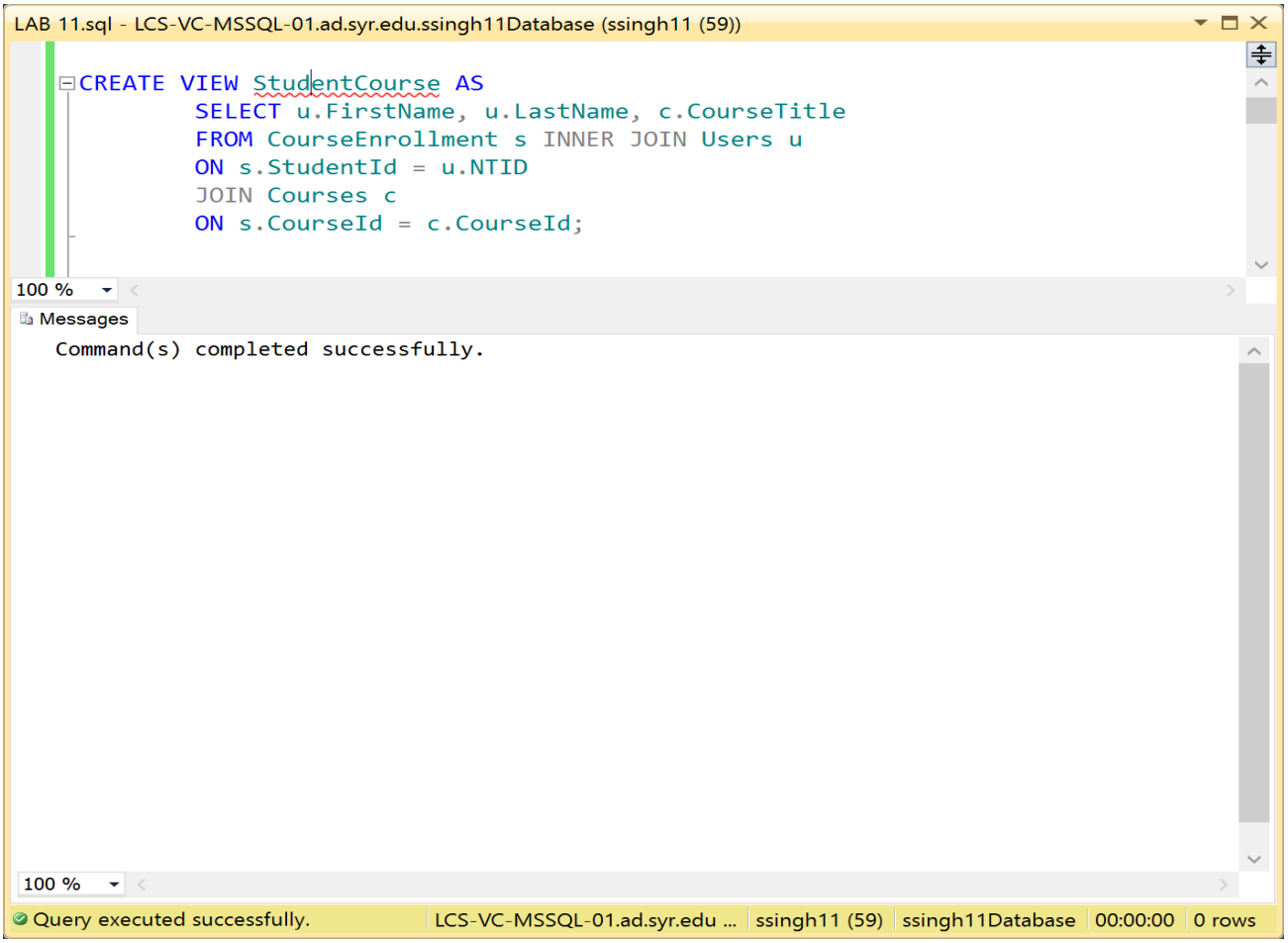
Lab 11: Views

1. Create a view that will display all of the following columns, joining tables as appropriate:
    a) Student First Name
    b) Student Last Name
    c) Course Title

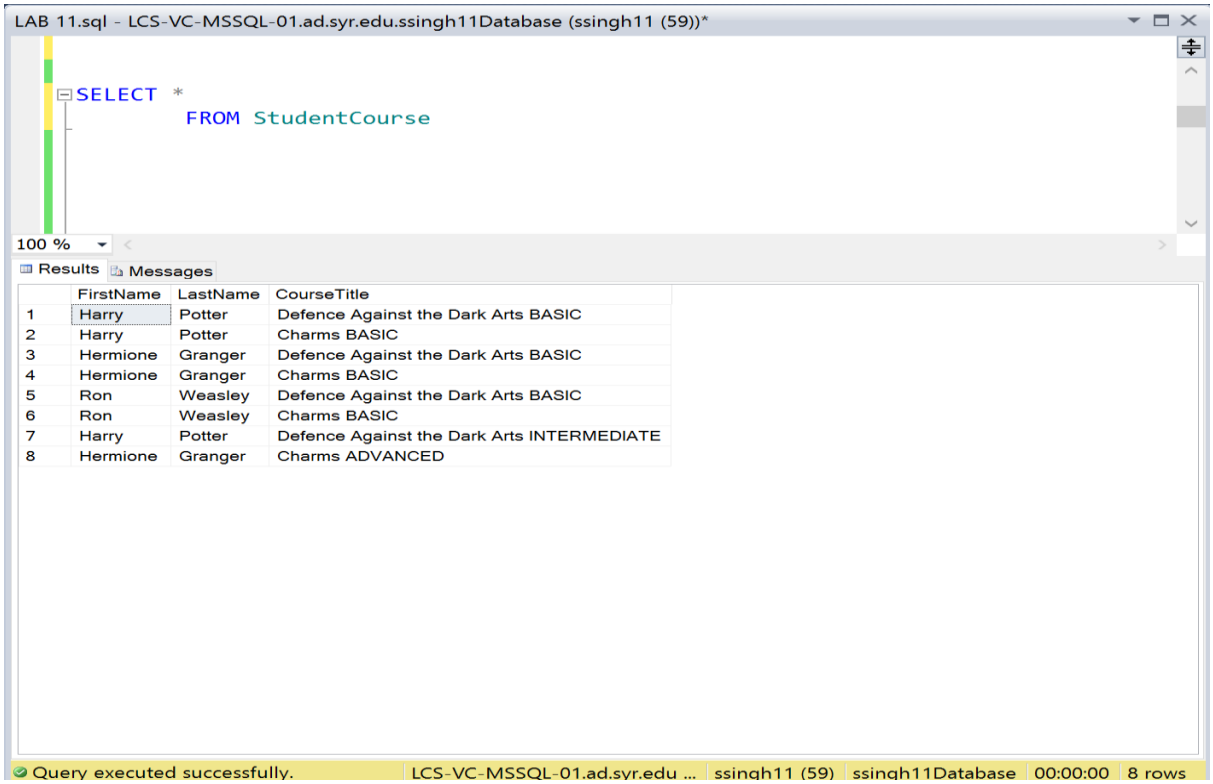
Answer:

```
CREATE VIEW StudentCourse AS

            SELECT u.FirstName, u.LastName, c.CourseTitle
            FROM CourseEnrollment s INNER JOIN Users u
            ON s.StudentId = u.NTID
            JOIN Courses c
            ON s.CourseId = c.CourseId;
```



```
SELECT *
      FROM StudentCourse
```



	FirstName	LastName	CourseTitle
1	Harry	Potter	Defence Against the Dark Arts BASIC
2	Harry	Potter	Charms BASIC
3	Hermione	Granger	Defence Against the Dark Arts BASIC
4	Hermione	Granger	Charms BASIC
5	Ron	Weasley	Defence Against the Dark Arts BASIC
6	Ron	Weasley	Charms BASIC
7	Harry	Potter	Defence Against the Dark Arts INTERMEDIATE
8	Hermione	Granger	Charms ADVANCED

2. Create a view that will display all of the following columns, joining tables as appropriate:
    a. Student First Name
    b. Student Last Name
    c. Course Title
    d. Course Faculty First Name
    e. Course Faculty Last Name
    f. Final Grade (number)

Answer:

```
CREATE VIEW ClassRoom AS
       SELECT u.FirstName + ',' + u.LastName AS StudentName, c.CourseTitle,
            f.FirstName + ',' + f.LastName AS FacultyName, ce.FinalGrade
       FROM Users u INNER JOIN CourseEnrollment ce
       ON ce.StudentId = u.NTID
       INNER JOIN Courses c
       ON ce.CourseId = c.CourseId
       INNER JOIN Users f
       ON f.NTID = c.Faculty;
```

LAB 11.sql - LCS-VC-MSSQL-01.ad.syr.edu.ssingh11Database (ssingh11 (59))*

```
CREATE VIEW ClassRoom AS
        SELECT u.FirstName + ',' + u.LastName AS StudentName, c.CourseTitle,
               f.FirstName + ',' + f.LastName AS FacultyName, ce.FinalGrade
        FROM Users u INNER JOIN CourseEnrollment ce
        ON ce.StudentId = u.NTID
        INNER JOIN Courses c
        ON ce.CourseId = c.CourseId
        INNER JOIN Users f
        ON f.NTID = c.Faculty;
```

100 %

Messages

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

100 %

Query executed successfully. | LCS-VC-MSSQL-01.ad.syr.edu ... | ssingh11 (59) | ssingh11Database | 00:00:00 | 0 rows

```
SELECT *
        FROM ClassRoom;
```

LAB 11.sql - LCS-VC-MSSQL-01.ad.syr.edu.ssingh11Database (ssingh11 (59))*

```
SELECT *
        FROM ClassRoom;
```

100 %

Results | Messages

	StudentName	CourseTitle	FacultyName	FinalGrade
1	Harry,Potter	Defence Against the Dark Arts BASIC	Rubeus,Hagrid	96.00
2	Harry,Potter	Charms BASIC	Filius,Flitwick	91.00
3	Hermione,Granger	Defence Against the Dark Arts BASIC	Rubeus,Hagrid	92.22
4	Hermione,Granger	Charms BASIC	Filius,Flitwick	99.00
5	Ron,Weasley	Defence Against the Dark Arts BASIC	Rubeus,Hagrid	91.00
6	Ron,Weasley	Charms BASIC	Filius,Flitwick	88.00
7	Harry,Potter	Defence Against the Dark Arts INTERMEDIATE	Rubeus,Hagrid	NULL
8	Hermione,Granger	Charms ADVANCED	Filius,Flitwick	NULL

Query executed successfully. | LCS-VC-MSSQL-01.ad.syr.edu ... | ssingh11 (59) | ssingh11Database | 00:00:00 | 8 rows

3. Select data from the 2nd view, *for Harry's classes only*.

Answer:

```
SELECT *
            FROM ClassRoom
            WHERE StudentName = 'Harry,Potter';
```