

Lab 10: Views**Purpose:**

Work with views – create two of them in **CSE581labs** database, extract the data.

Deliverables:

Multiple screenshots, as described through the lab.

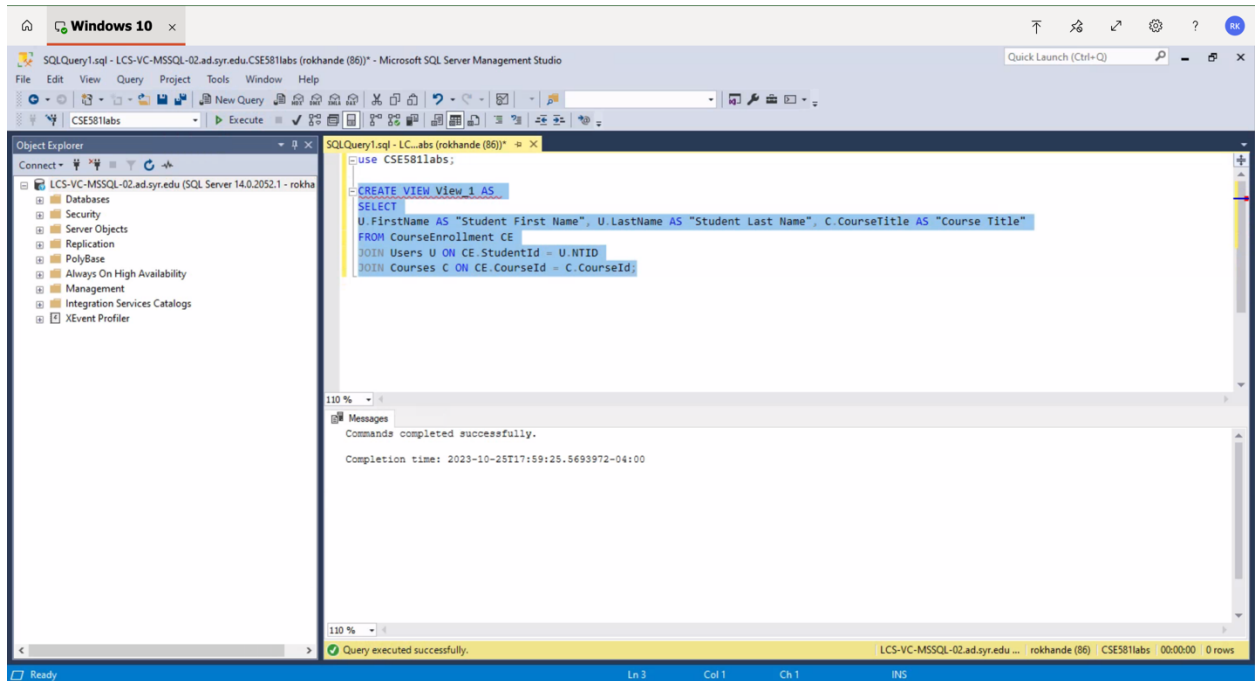
Scripts that you used to carry out the actions.

Steps:

1. Create a view that will display all of the following columns, joining tables (you built in Lab 7 & 8) as appropriate: *Provide a **screenshot** of script execution.*
 - a) Student First Name
 - b) Student Last Name
 - c) Course Title

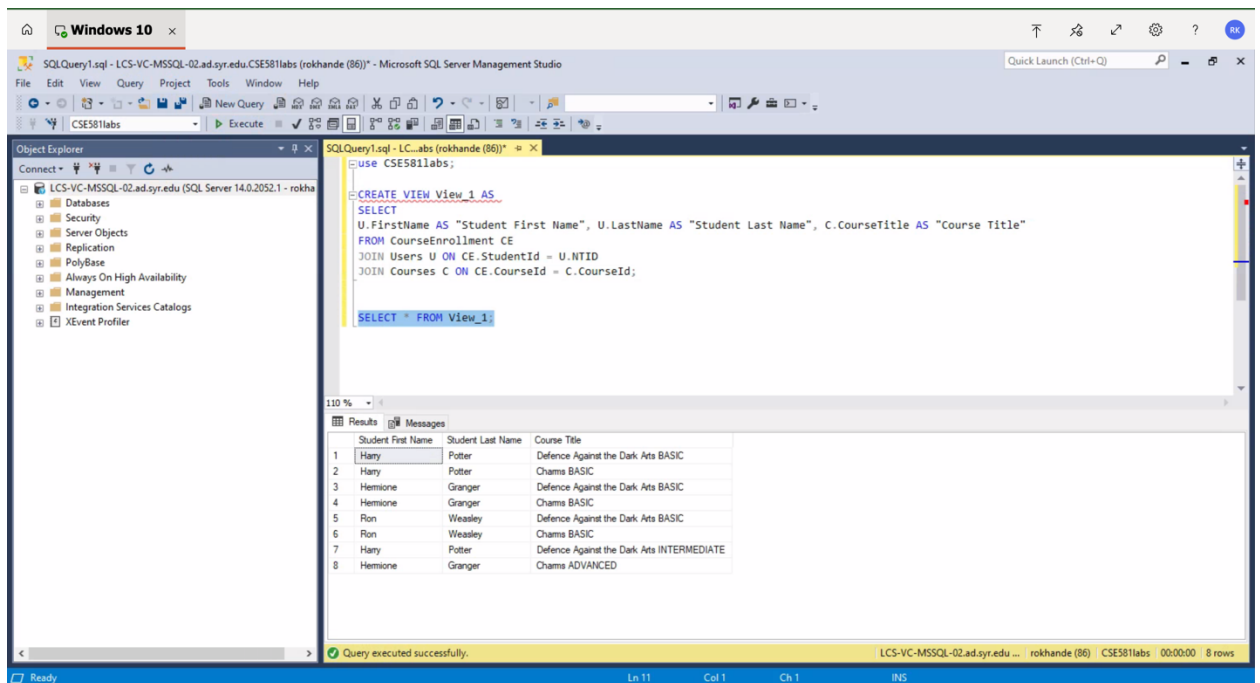
use CSE581labs;

```
CREATE VIEW View_1 AS
SELECT
U.FirstName AS "Student First Name", U.LastName AS "Student Last Name", C.CourseTitle AS
"Course Title"
FROM CourseEnrollment CE
JOIN Users U ON CE.StudentId = U.NTID
JOIN Courses C ON CE.CourseId = C.CourseId;
```



2. Select all data from the view. Provide a **screenshot** of all data¹.

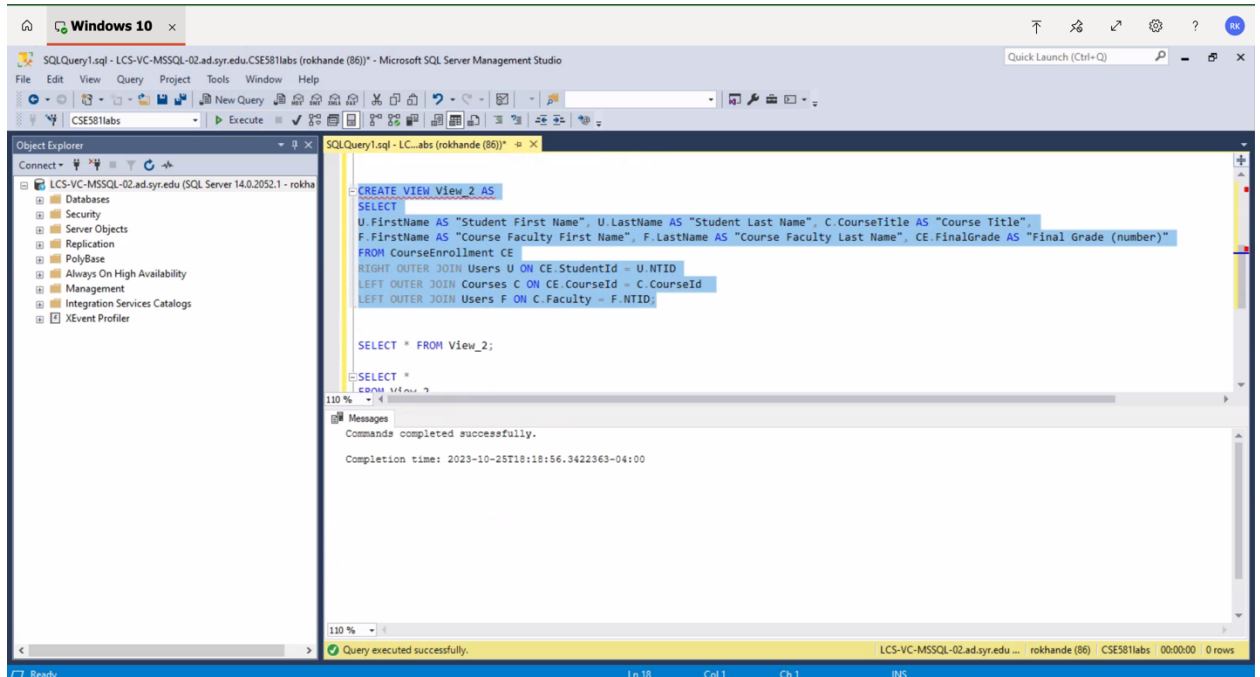
SELECT * FROM View_1;



¹ You may need to take multiple screenshots, I want to see every single row/column of the selected data.

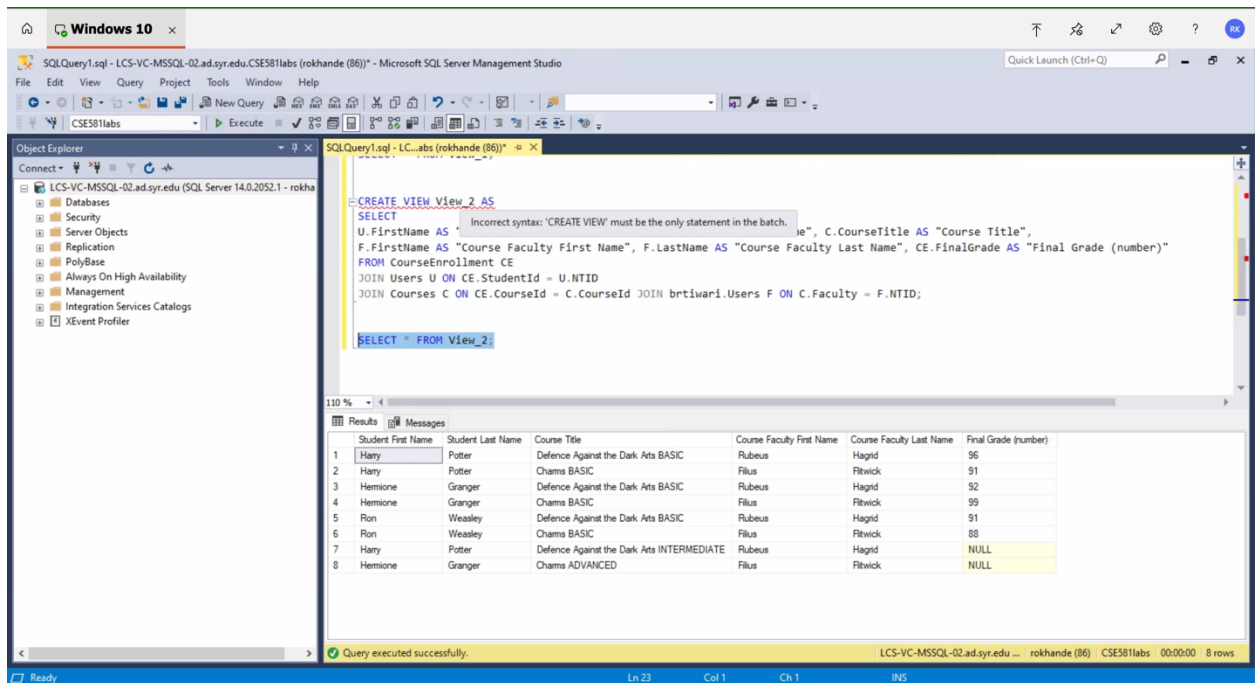
3. Create a view that will display all of the following columns, joining tables (you built in Lab 7 & 8) as appropriate: *Provide a **screenshot** of script execution.*
- Student First Name
 - Student Last Name
 - Course Title
 - Course Faculty First Name
 - Course Faculty Last Name
 - Final Grade (number)

```
CREATE VIEW View_2 AS
SELECT
U.FirstName AS "Student First Name", U.LastName AS "Student Last Name", C.CourseTitle AS
"Course Title",
F.FirstName AS "Course Faculty First Name", F.LastName AS "Course Faculty Last Name",
CE.FinalGrade AS "Final Grade (number)"
FROM CourseEnrollment CE
RIGHT OUTER JOIN Users U ON CE.StudentId = U.NTID
LEFT OUTER JOIN Courses C ON CE.CourseId = C.CourseId
LEFT OUTER JOIN Users F ON C.Faculty = F.NTID;
```



4. Select all data from the 2nd view. Provide a **screenshot**¹.

SELECT * FROM View_2;



5. Select data from the 2nd view, *for Harry's classes only*. Provide a **screenshot**¹.

SELECT *
FROM View_2
WHERE "Student First Name" = 'Harry';

Windows 10 x

SQLQuery1.sql - LCS-VC-MSSQL-02.ad.syr.edu.CSE581labs (rokhande (86)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Connect - LCS-VC-MSSQL-02.ad.syr.edu (SQL Server 14.0.2052.1 - rokha)

Object Explorer

- Databases
- Security
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Integration Services Catalogs
- XEvent Profiler

SQLQuery1.sql - LCS_5abs (rokhande (86))

```
U.FirstName AS "Student First Name", U.LastName AS "Student Last Name", C.CourseTitle AS "Course Title",  
F.FirstName AS "Course Faculty First Name", F.LastName AS "Course Faculty Last Name", CE.FinalGrade AS "Final Grade (number)"  
FROM CourseEnrollment CE  
JOIN Users U ON CE.StudentId = U.NTID  
JOIN Courses C ON CE.CourseId = C.CourseId JOIN btiwari.Users F ON C.Faculty = F.NTID;  
  
SELECT * FROM View_2;  
  
SELECT  
FROM View_2  
WHERE "Student First Name" = 'Harry';
```

Results

	Student First Name	Student Last Name	Course Title	Course Faculty First Name	Course Faculty Last Name	Final Grade (number)
1	Harry	Potter	Defence Against the Dark Arts BASIC	Rubeus	Hagrid	96
2	Harry	Potter	Charms BASIC	Filus	Ritwick	91
3	Harry	Potter	Defence Against the Dark Arts INTERMEDIATE	Rubeus	Hagrid	NULL

Messages

Query executed successfully.

LCS-VC-MSSQL-02.ad.syr.edu ... rokhande (86) CSE581labs 00:00:00 3 rows

Ready Ln 25 Col 1 Ch 1 INS