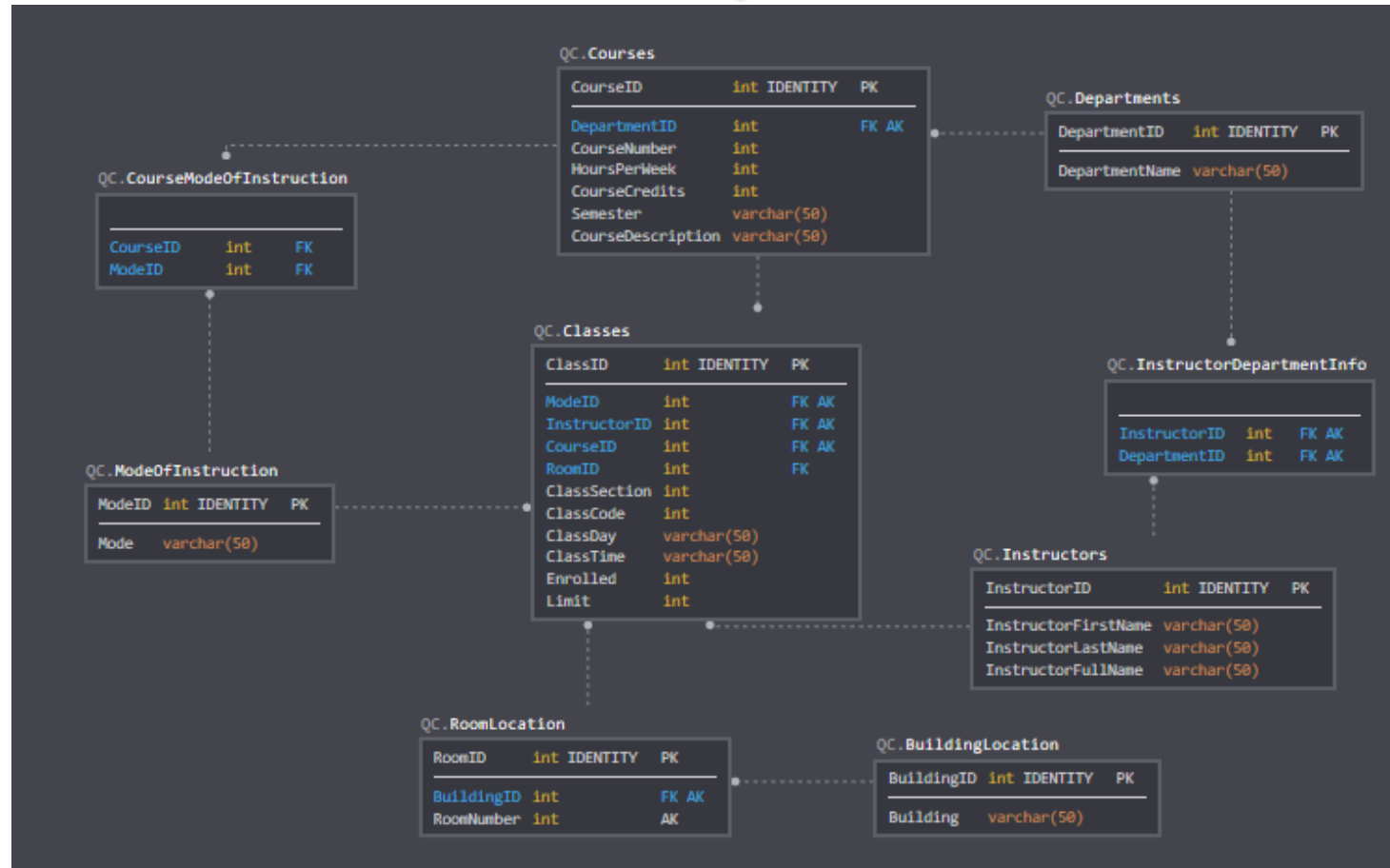# Fiasal Hotaky

Project 3 Power Point
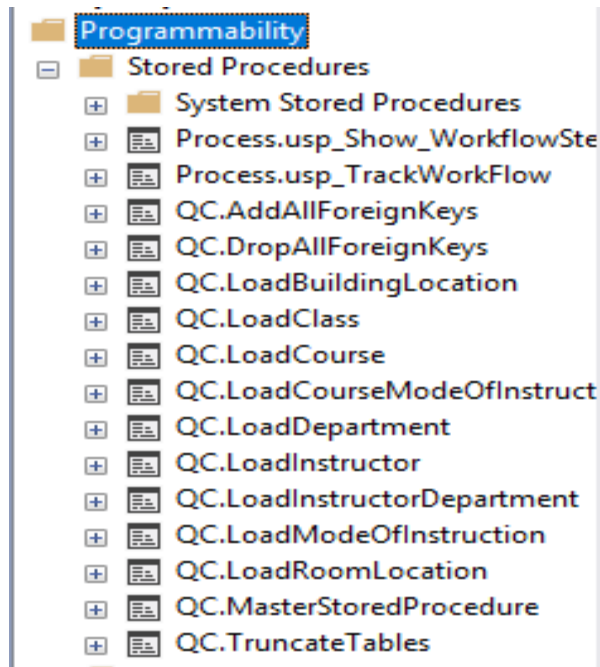
Entity-relationship ERD
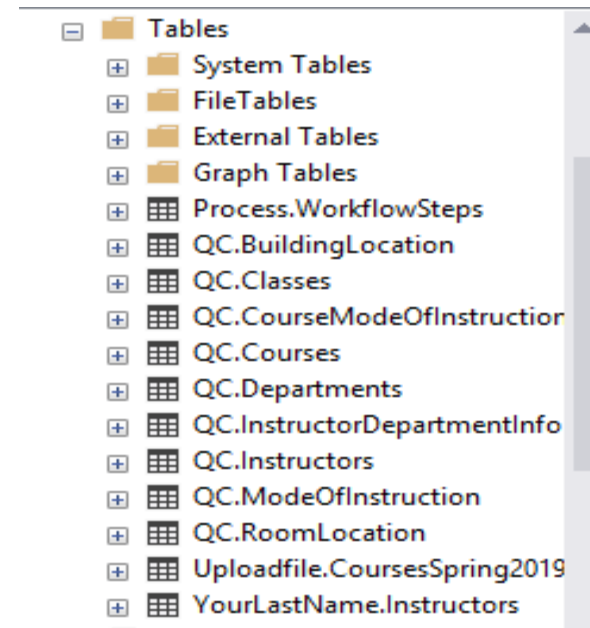
Stored Procedures and tables

Stored Procedures

Tables

Show all instructors who are teaching in multiple departments.

```
/*
    Show all instructors who are teaching in classes in multiple departments
*/
use QueensCollegeSchedulSpring2019
SELECT I.[InstructorFullName], COUNT(I.[InstructorFullName]) AS NumOfCourses, D.[DepartmentName]
FROM [QC].[Instructors] AS I
INNER JOIN [QC].[Classes] AS C
ON I.[InstructorID] = C.[InstructorID]
INNER JOIN [QC].[Courses] AS Co
ON C.[CourseID] = Co.[CourseID]
INNER JOIN [QC].[Departments] AS D
ON Co.[DepartmentID] = D.[DepartmentID]
GROUP BY I.[InstructorFullName], D.[DepartmentName]
HAVING COUNT(I.[InstructorFullName]) >1
```

100 %

Results | Messages

	InstructorFullName	NumOfCourses	DepartmentName
1	Altman, Julie	2	ACCT
2	Balkaran, Dianand	2	ACCT
3	Barone, Ernest	2	ACCT
4	Benjamin, Ranjitkumar	2	ACCT
5	Dauber, Nicky	4	ACCT
6	David, Amy	3	ACCT
7	Davidovits, Murray	5	ACCT
8	Dignam, Arthur	2	ACCT
9	Elan, Robert	2	ACCT

Query executed successfully. | DESKTOP-6Q8SUD7 (14.0 RTM) | DESKTOP-6Q8SUD7\Fiasal... | QueensCollegeSchedulSp... | 00:00:00 | 1115 rows

How many instructors in each department?


```sql
/* how many instructors are in each department */
USE QueensCollegeSchedulSpring2019
SELECT DISTINCT D.[DepartmentName], COUNT(I.[InstructorFullName]) AS NumOfInstructors
FROM [QC].[Instructors] AS I
INNER JOIN [QC].[Classes] AS C
ON I.[InstructorID] = C.[InstructorID]
INNER JOIN [QC].[Courses] AS Co
ON C.[CourseID] = Co.[CourseID]
INNER JOIN [QC].[Departments] AS D
ON Co.[DepartmentID] = D.[DepartmentID]
GROUP BY D.[DepartmentName]
```

100 %

Results | Messages

	DepartmentName	NumOfInstructors
1	ENSCI	41
2	BIOL	240
3	FNES	180
4	PHIL	51
5	LATIN	3
6	GRKST	1
7	CSCI	159
8	DRAM	45
9	GERM	10

Query executed successfully.   DESKTOP-6Q8SUD7 (14.0 RTM) | DESKTOP-6Q8SUD7\Fiasal... | QueensCollegeSchedulSp... | 00:00:00 | 85 rows

Which instructor teaches the most hours?

```sql
/*Which instructor teaches the most hours? */
SELECT COUNT(Co.[HoursPerWeek]) AS  NumOfHours, I.[InstructorFullName]
FROM [QC].[Courses] AS Co
INNER JOIN [QC].[Classes] AS C
ON Co.[CourseID] = C.[CourseID]
INNER JOIN [QC].[Instructors] AS I
ON C.[InstructorID] = I.[InstructorID]
GROUP BY I.[InstructorFullName]
ORDER BY NumOfHours DESC
```
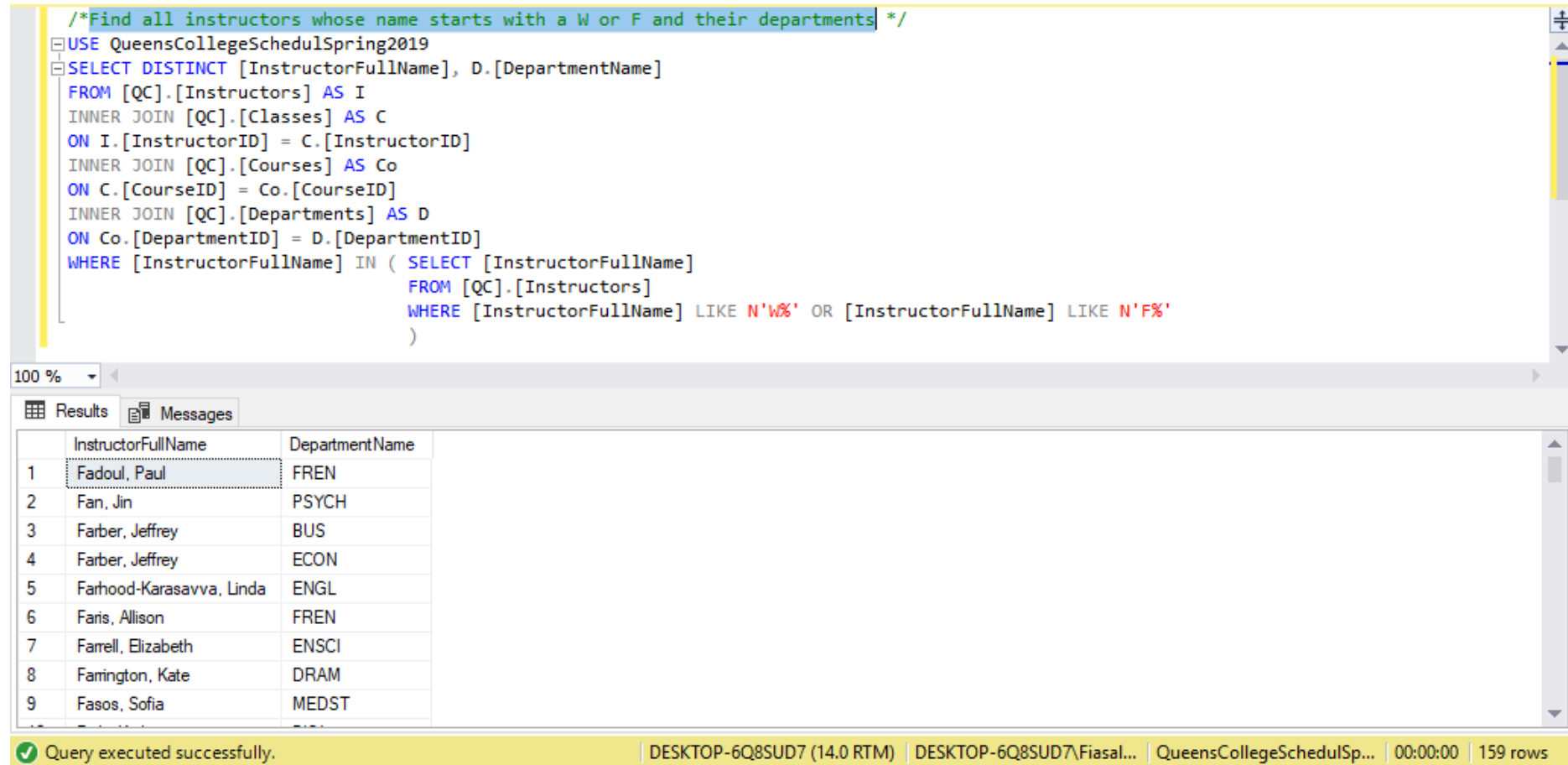
100 %

☰ Results ▤ Messages

	NumOfHours	InstructorFullName
1	170	TBD
2	32	Jolley, David
3	30	Ritt, Morey
4	28	Lipsey, Michael
5	27	Rosen, Marcy
6	25	Pirone, Donald
7	21	Overholt, Sherry
8	19	Mendenhall, Judith
9	19	Crouse, Rose-Marie

✔ Query executed successfully.   DESKTOP-6Q8SUD7 (14.0 RTM) | DESKTOP-6Q8SUD7\Fiasal... | QueensCollegeSchedulSp... | 00:00:00 | 1597 rows

Find all instructors whose name starts with a W or F and their departments

```sql
/*Find all instructors whose name starts with a W or F and their departments */
USE QueensCollegeSchedulSpring2019
SELECT DISTINCT [InstructorFullName], D.[DepartmentName]
FROM [QC].[Instructors] AS I
INNER JOIN [QC].[Classes] AS C
ON I.[InstructorID] = C.[InstructorID]
INNER JOIN [QC].[Courses] AS Co
ON C.[CourseID] = Co.[CourseID]
INNER JOIN [QC].[Departments] AS D
ON Co.[DepartmentID] = D.[DepartmentID]
WHERE [InstructorFullName] IN ( SELECT [InstructorFullName]
                                FROM [QC].[Instructors]
                                WHERE [InstructorFullName] LIKE N'W%' OR [InstructorFullName] LIKE N'F%'
                                )
```

100 %

☑ Results   ☑ Messages

	InstructorFullName	DepartmentName
1	Fadoul, Paul	FREN
2	Fan, Jin	PSYCH
3	Farber, Jeffrey	BUS
4	Farber, Jeffrey	ECON
5	Farhood-Karasavva, Linda	ENGL
6	Faris, Allison	FREN
7	Farrell, Elizabeth	ENSCI
8	Farrington, Kate	DRAM
9	Fasos, Sofia	MEDST

✔ Query executed successfully.   DESKTOP-6Q8SUD7 (14.0 RTM)   DESKTOP-6Q8SUD7\Fiasal...   QueensCollegeSchedulSp...   00:00:00   159 rows

Find all departments, course numbers and the instructors teaching them.

```sql
/* Find all the departments, course number and the instructors teaching them*/
SELECT I.[InstructorFullName], Co.[CourseNumber], d.[DepartmentName]
FROM [QC].[Instructors] as I
INNER JOIN [QC].[Classes] AS C
ON I.[InstructorID] = C.[InstructorID]
INNER JOIN [QC].[Courses] AS Co
ON C.[CourseID] = Co.[CourseID]
INNER JOIN [QC].[Departments] AS D
ON Co.[DepartmentID] = D.[DepartmentID]
```

100 %

Results | **Messages**

	InstructorFullName	CourseNumber	DepartmentName
1	Milo, Michael	100	ACCT
2	Ho, Vivian	100	ACCT
3	Milo, Michael	100	ACCT
4	Feisullin, Anita	101	ACCT
5	Mintz, Chana	101	ACCT
6	Chan, Joseph	101	ACCT
7	Solarsh, Eva	101	ACCT
8	Zapf, Michael	101	ACCT
9	Ruthizer, Scott	101	ACCT

Query executed successfully. | DESKTOP-6Q8SUD7 (14.0 RTM) | DESKTOP-6Q8SUD7\Fiasal... | QueensCollegeSchedulSp... | 00:00:00 | 4522 rows