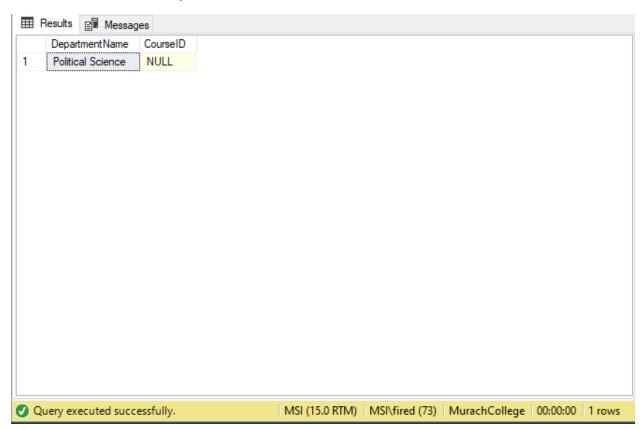
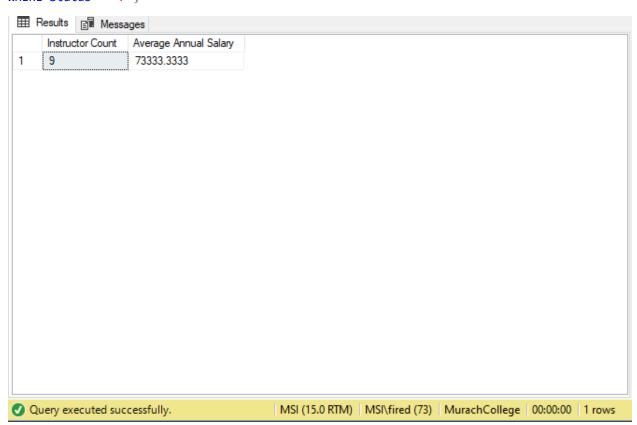
	LastName	FirstName	CourseDescription				
1	Amundsen	Rachel	Biology				
2	Amundsen	Rachel	Microbiology				
3	Black	Bill	Educational Theory				
4	Brown	Billy	Beginning Accounting				
5	Brown	Billy	Intermediate Accounting				
6	Connors	Daniel	Social Psychology				
7	Connors	Daniel	Population and Demographics				
8	Drew	Daniel	Classic Literature				
9	Drew	Daniel	Shakespeare				
10	Gallegos	Tomas	Anatomy				
11	Gallegos	Tomas	Physiology				
12	Green	Gene	Intro to Marketing				
13	Green	Gene	Social Media				
14	Jones	Sally	Business Writing				
15	Jones	Sally	Composition				
16	McGregor	NULL	Abstract Algebra				
17	McGregor	NULL	Intro to Calculus				
18	Paxton	Amold	NULL				
19	Rogers	NULL	Intro to Management				

```
SELECT 'UNDERGRAD' AS Status, FirstName, LastName, EnrollmentDate, GraduationDate FROM Students
WHERE GraduationDate IS NULL
UNION
SELECT 'GRADUATED' AS Status, FirstName, LastName, EnrollmentDate, GraduationDate FROM Students
WHERE GraduationDate IS NOT NULL
ORDER BY EnrollmentDate;
```

	Status	First Name	LastName	Enrollment Date	Graduation Date	
1	GRADUATED	Amber	Howard	2015-12-18 16:44:26	2019-12-14	
2	GRADUATED	George	White	2015-12-20 11:12:26	2019-12-14	
3	GRADUATED	Tony	MacNamara	2015-12-21 09:21:55	2019-05-07	
1	GRADUATED	Jonathan	Welch	2015-12-21 13:23:10	2019-12-14	
5	UNDERGRAD	Donna	Taylor	2015-12-28 10:32:16	NULL	
5	GRADUATED	Rose	Price	2016-01-02 12:37:31	2019-12-14	
7	GRADUATED	Jesse	Rodriguez	2016-01-03 13:08:37	2019-05-07	
3	UNDERGRAD	Bonnie	Williams	2016-01-03 15:44:56	NULL	
	UNDERGRAD	Thomas	Kent	2016-07-15 11:14:23	NULL	
10	UNDERGRAD	Maggie	Kramer	2016-07-15 17:02:45	NULL	
11	UNDERGRAD	Cameron	DeLorean	2016-07-18 12:48:43	NULL	
2	UNDERGRAD	Frank	Sanchez	2016-07-20 09:37:53	NULL	
3	GRADUATED	Roberta	Smith	2016-07-22 11:18:25	2019-12-14	
4	UNDERGRAD	Wilma	Hoffman	2016-12-10 15:31:28	NULL	
15	UNDERGRAD	Brian	Bonwell	2016-12-12 14:22:53	NULL	
16	UNDERGRAD	Cal	Clement	2016-12-14 16:42:11	NULL	
7	UNDERGRAD	Charles	Patrick	2016-12-22 08:43:48	NULL	
8	UNDERGRAD	William	Landry	2017-01-02 11:28:49	NULL	
19	UNDERGRAD	Monica	Morrisey	2017-01-04 10:42:06	NULL	



```
SELECT COUNT(InstructorID) AS 'Instructor Count', AVG(AnnualSalary) AS 'Average Annual
Salary'
FROM Instructors
WHERE Status = 'F';
```



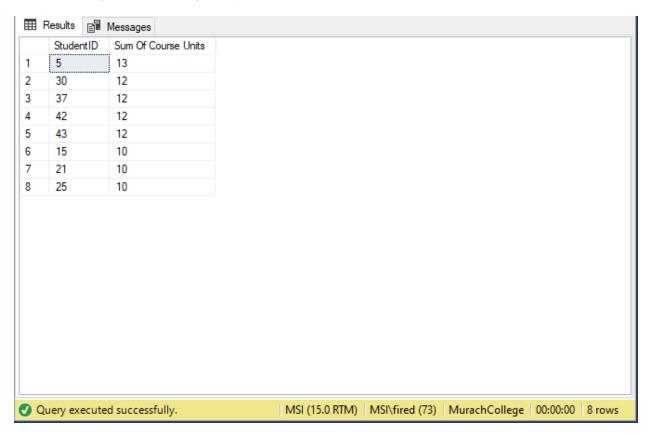
Answer #5

```
SELECT D.DepartmentName, COUNT(InstructorID) AS 'Instructor Count', MAX(AnnualSalary) AS
'Highest Paid Instructor Annual Salary'
FROM Instructors AS I
      JOIN Departments AS D ON I.DepartmentID = D.DepartmentID
GROUP BY D.DepartmentName
ORDER BY 'Instructor Count' DESC;
```

	Department Name	Instructor Count	Highest Paid Instructor Annual Salary	
1	Business	4	77500.00	
2	English	3	74000.00	
3	Mathematics	2	74000.00	
4	Music	2	36000.00	
5	Science	2	79000.00	
6	Education	2	73000.00	
7	Sociology	1	71500.00	

	Full Name	Number Of Courses	Sum Of Course Units
1	NULL	3	9
2	Rachel Amundsen	2	8
3	Tomas Gallegos	2	6
4	Gene Green	2	6
5	John Smith	2	6
6	Billy Brown	2	6
7	Daniel Connors	2	6
3	Daniel Drew	2	6
9	Demick Thomas	2	5
10	Sally Jones	2	5
11	William Thomas	1	3
12	Jonathan Vilma	1	3
13	Angela Warren	1	3
14	Bill Black	1	3

Dep	artment Name	CourseDescription	Number Of Students	
1 Bus	ness	Beginning Accounting	4	
2 Bus	ness	Intermediate Accounting	4	
3 Bus	ness	Social Media	4	
4 Bus	iness	Business Writing	5	
5 Bus	ness	Statistical Analysis	6	
6 Bus	ness	Intro to Marketing	7	
7 Bus	ness	Intro to Management	8	
8 Edu	cation	Primary Education	2	
9 Edu	cation	Secondary Education	5	
10 Eng	lish	Composition	2	
11 Eng	lish	Creative Writing	4	
12 Eng	lish	Shakespeare	4	
13 Eng	lish	Classic Literature	5	
14 Mat	hematics	Abstract Algebra	3	
15 Mat	nematics	Intro to Calculus	5	
16 Mat	hematics	Trigonometry	5	
17 Mus	ic	Marching Band	2	
18 Mus	ic	Music Theory	4	
19 Scie	ence	Biology	2	



Answer #9

```
SELECT (I.LastName + ', ' + I.FirstName) AS 'Full Name', COUNT(C.CourseID) AS 'Number Of
Courses'
FROM Instructors AS I
      JOIN Courses AS C ON I.InstructorID = C.InstructorID
WHERE I.Status = 'P'
GROUP BY ROLLUP(I.LastName + ', ' + I.FirstName);
```

Results Messages Full Name Number Of Courses NULL 2 Black, Bill 1 3 Thomas, Demick 2 4 Thomas, William 1 5 Vilma, Jonathan 1 Warren, Angela 1 6 7 7 NULL MSI (15.0 RTM) MSI\fired (73) MurachCollege 00:00:00 7 rows

Query executed successfully.

```
SELECT Name AS 'Department Name', COUNT(HRED.DepartmentID) AS 'Number of Employees'
FROM HumanResources.Department AS HRD

JOIN HumanResources.EmployeeDepartmentHistory AS HRED

ON HRD.DepartmentID = HRED.DepartmentID

WHERE EndDate IS NULL
GROUP BY Name, HRED.DepartmentID

ORDER BY Name;
```

	Department Name	Number of Employees
1	Document Control	5
2	Engineering	6
3	Executive	2
4	Facilities and Maintenance	7
5	Finance	10
6	Human Resources	6
7	Information Services	10
8	Marketing	9
9	Production	179
10	Production Control	6
11	Purchasing	12
12	Quality Assurance	6
13	Research and Development	4
14	Sales	18
15	Shipping and Receiving	6
16	Tool Design	4