Assignment 5
James Livingstone

Answer #1

```sql
SELECT DISTINCT LastName, FirstName
FROM Instructors AS I
WHERE
        I.InstructorID IN
        (SELECT InstructorID
         FROM Courses AS C)
ORDER BY LastName, FirstName;
```

	LastName	FirstName
1	Amundsen	Rachel
2	Black	Bill
3	Brown	Billy
4	Connors	Daniel
5	Drew	Daniel
6	Gallegos	Tomas
7	Green	Gene
8	Jones	Sally
9	McGregor	NULL
10	Rogers	NULL
11	Smith	John
12	Thomas	Derrick
13	Thomas	William
14	Vilma	Jonathan
15	Warren	Angela

Query executed successfully.   MSI (15.0 RTM) | MSI\fired (52) | MurachCollege | 00:00:00 | 15 rows

Assignment 5
James Livingstone

Answer #2

```sql
SELECT LastName, FirstName
FROM Instructors AS I
WHERE
    I.AnnualSalary >
    (SELECT AVG(AnnualSalary)
     FROM Instructors)
ORDER BY AnnualSalary DESC;
```

	LastName	FirstName
1	Amundsen	Rachel
2	Brown	Billy
3	Green	Gene
4	McGregor	NULL
5	Jones	Sally
6	Smith	John
7	Drew	Daniel
8	Connors	Daniel
9	Gallegos	Tomas

Results   Messages

✅ Query executed successfully.   MSI (15.0 RTM)   MSI\fired (52)   MurachCollege   00:00:00   9 rows

Assignment 5
James Livingstone

Answer #3

```sql
SELECT DISTINCT LastName, FirstName
FROM Instructors AS I
WHERE NOT EXISTS
        (SELECT InstructorID
         FROM Courses AS C
         WHERE C.InstructorID = I.InstructorID)
ORDER BY LastName, FirstName;
```

	LastName	FirstName
1	Paxton	Arnold

✅ Query executed successfully. | MSI (15.0 RTM) | MSI\fired (52) | MurachCollege | 00:00:00 | 1 rows

Assignment 5
James Livingstone

Answer #4

```sql
SELECT LastName, FirstName, COUNT(*) AS 'Number Of Courses'
FROM Students AS S JOIN StudentCourses AS SC ON S.StudentID = SC.StudentID
WHERE SC.StudentID IN
        (SELECT StudentID
         FROM StudentCourses AS SC
         JOIN Courses AS C ON SC.CourseID = C.CourseID
         GROUP BY StudentID
         HAVING COUNT(*) > 1)
GROUP BY LastName, FirstName
ORDER BY LastName, FirstName;
```

	LastName	FirstName	Number Of Courses
1	Biden	Jonas	4
2	Bonwell	Brian	3
3	Butler	George	2
4	Camden	James	3
5	Clement	Cal	2
6	Cramsden	Walter	3
7	DeLorean	Cameron	3
8	Easton	Barney	3
9	Flores	Jesus	2
10	Franks	Karen	2
11	Gardner	Faye	3
12	Geary	Annette	4
13	George	Mona	3
14	Goodell	Conner	2
15	Griffin	Gerald	3
16	Jackson	Floyd	3
17	Johnson	Timothy	4
18	Jones	Andrew	3
19	Kent	Thomas	3

Query executed successfully.   MSI (15.0 RTM) MSI\fired (52) MurachCollege 00:00:00 34 rows

Assignment 5
James Livingstone

Answer #5

```sql
SELECT LastName, FirstName, AnnualSalary
FROM Instructors
WHERE AnnualSalary NOT IN
        (SELECT AnnualSalary
         FROM Instructors
         GROUP BY AnnualSalary
         HAVING COUNT(AnnualSalary) > 1)
ORDER BY LastName, FirstName;
```

	LastName	FirstName	AnnualSalary
1	Amundsen	Rachel	79000.00
2	Black	Bill	34000.00
3	Brown	Billy	77500.00
4	Connors	Daniel	71500.00
5	Drew	Daniel	72000.00
6	Gallegos	Tomas	64000.00
7	Green	Gene	75000.00
8	Paxton	Arnold	36000.00
9	Rogers	NULL	38000.00
10	Smith	John	73000.00
11	Thomas	William	38500.00
12	Warren	Angela	33000.00

Query executed successfully.   MSI (15.0 RTM) | MSI\fired (52) | MurachCollege | 00:00:00 | 12 rows

Assignment 5
James Livingstone

Answer #6

```sql
INSERT INTO Departments (DepartmentName)
VALUES ('History');
```

Messages

```
(1 row affected)

Completion time: 2022-09-28T14:01:24.5752073-05:00
```

110 %

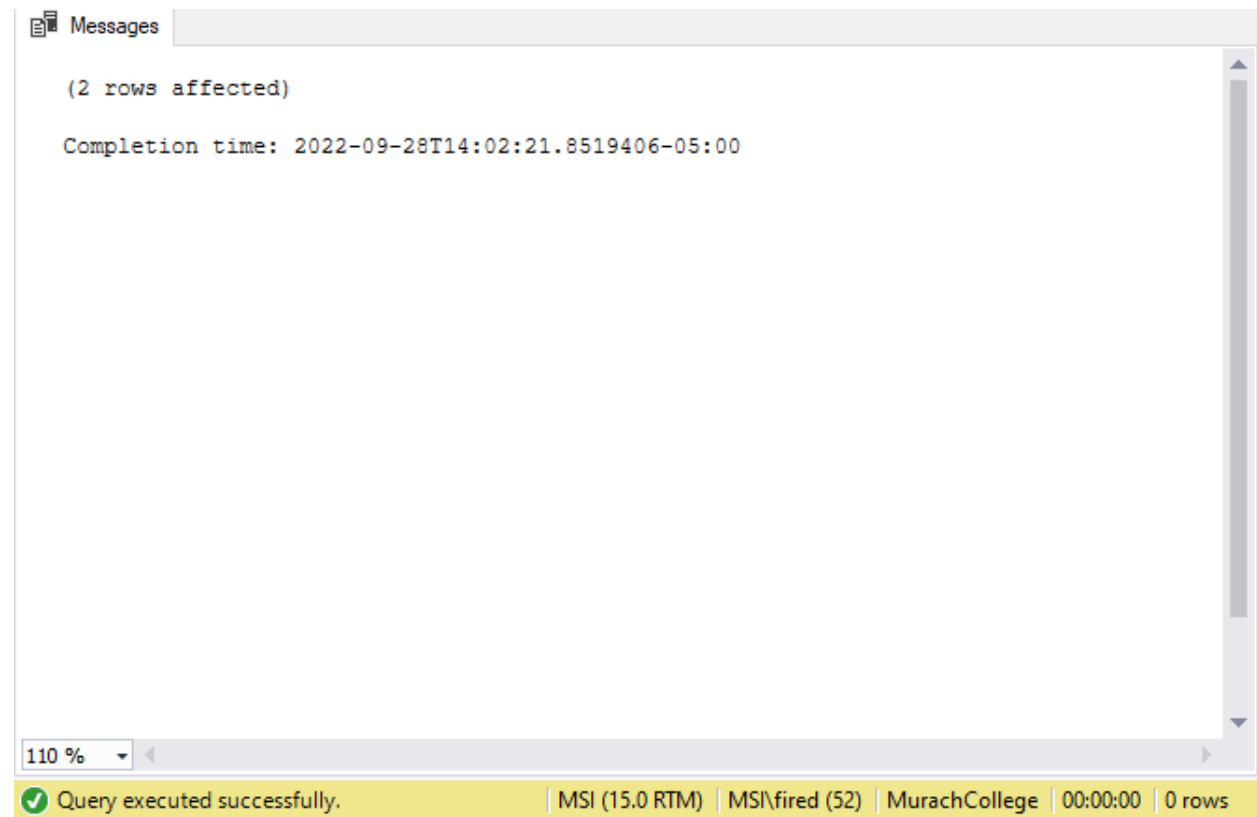✅ Query executed successfully. | MSI (15.0 RTM) | MSI\fired (52) | MurachCollege | 00:00:00 | 0 rows

Assignment 5
James Livingstone

Answer #7

```sql
INSERT INTO Instructors(LastName, FirstName, Status, DepartmentChairman, HireDate,
AnnualSalary, DepartmentID)
VALUES ('Benedict', 'Susan', 'P', 0, GETDATE(), 34000.00, 9),('Adams', null, 'F', 1,
GETDATE(), 66000.00, 9);
```

📰 Messages
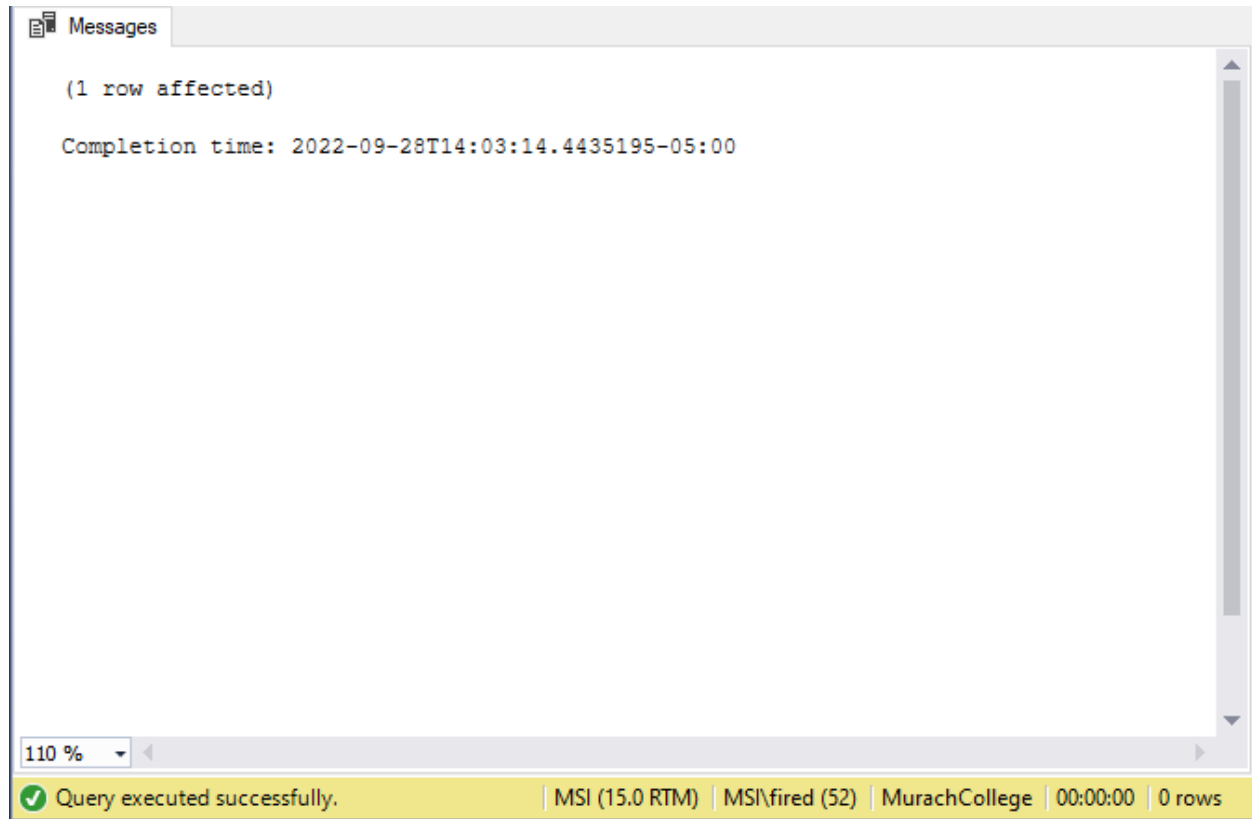
```
(2 rows affected)

Completion time: 2022-09-28T14:02:21.8519406-05:00
```

110 %

✅ Query executed successfully. | MSI (15.0 RTM) | MSI\fired (52) | MurachCollege | 00:00:00 | 0 rows

Assignment 5
James Livingstone

Answer #8

```sql
UPDATE Instructors
SET AnnualSalary = 35000.00
WHERE InstructorID =
        (SELECT InstructorID
         FROM Instructors
         WHERE LastName = 'Benedict'
         AND FirstName = 'Susan');
```
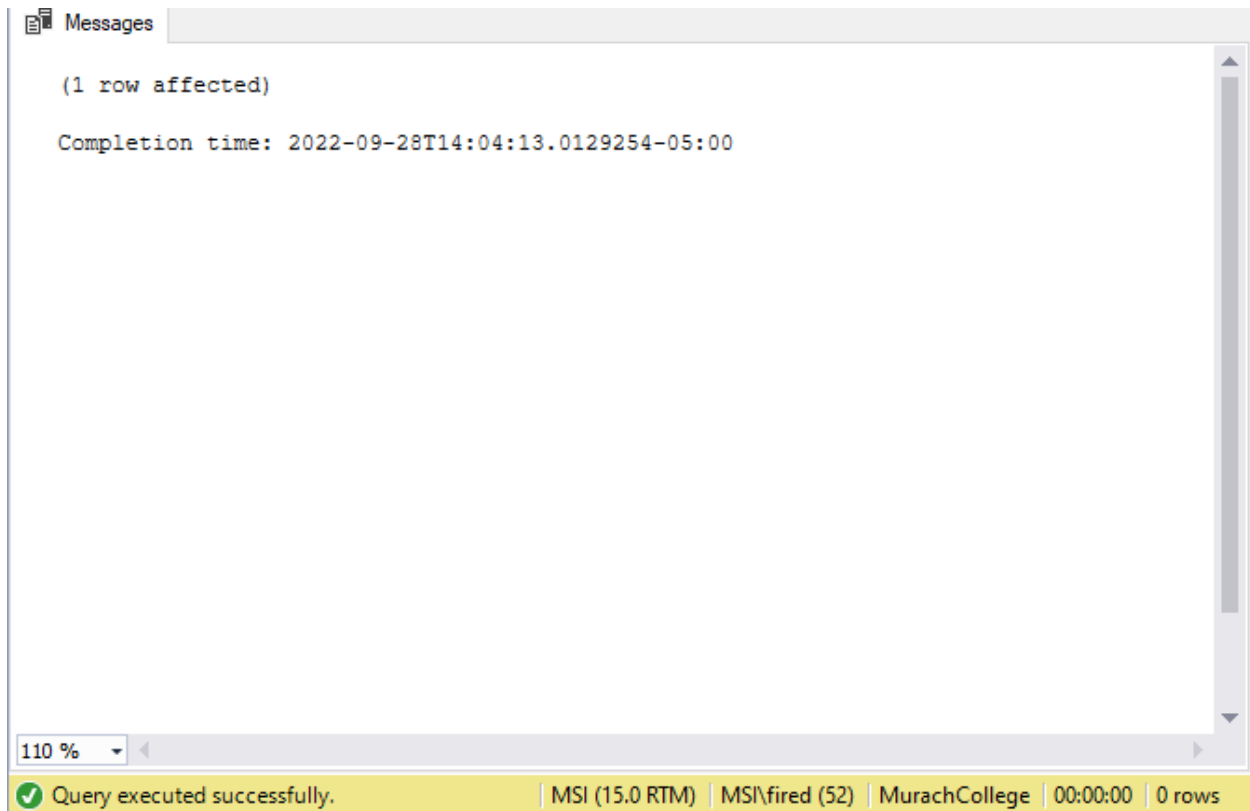
Messages

    (1 row affected)

    Completion time: 2022-09-28T14:03:14.4435195-05:00

110 %

Query executed successfully. | MSI (15.0 RTM) | MSI\fired (52) | MurachCollege | 00:00:00 | 0 rows

Assignment 5
James Livingstone

Answer #9

```sql
DELETE FROM Instructors
WHERE InstructorID =
        (SELECT InstructorID
         FROM Instructors
         WHERE LastName = 'Adams'
         AND FirstName IS NULL);
```

Messages

(1 row affected)

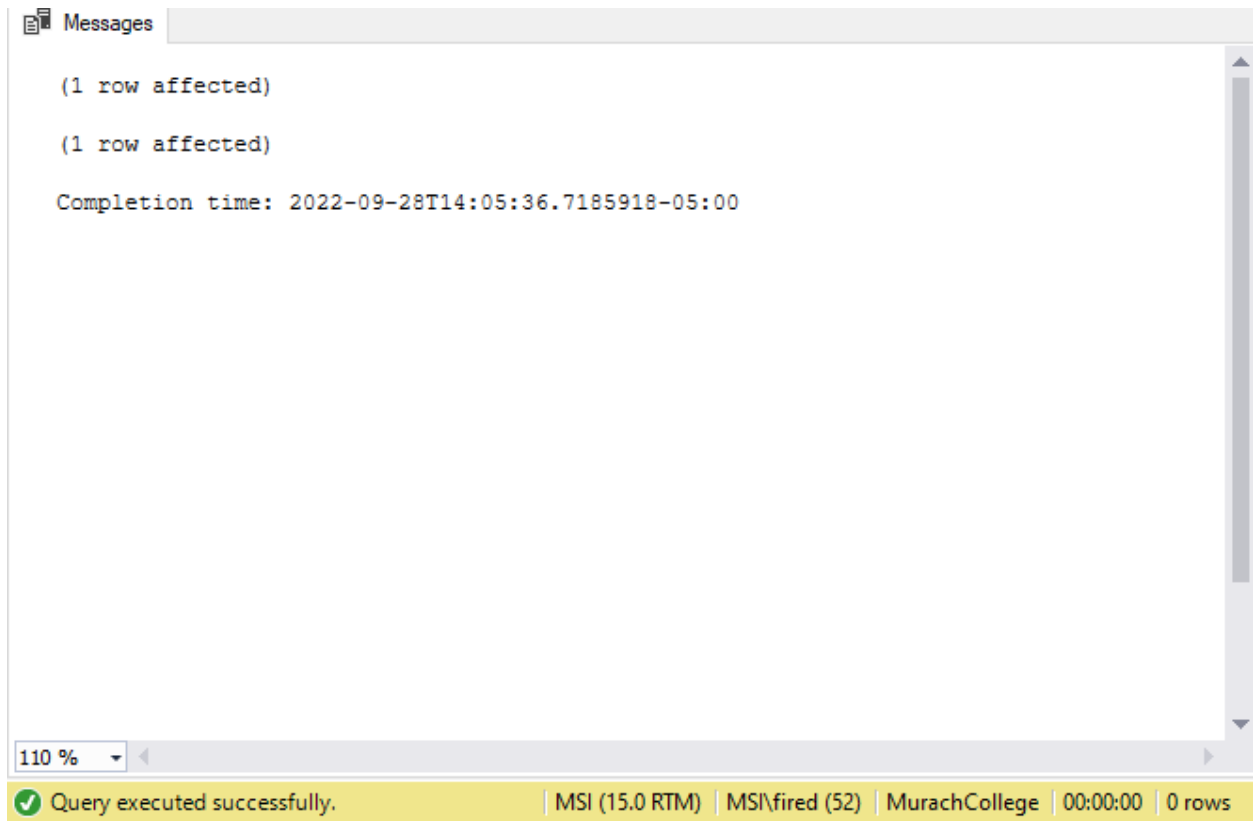Completion time: 2022-09-28T14:04:13.0129254-05:00

110 %

✅ Query executed successfully. | MSI (15.0 RTM) | MSI\fired (52) | MurachCollege | 00:00:00 | 0 rows

Assignment 5
James Livingstone

Answer #10

```sql
DELETE FROM Instructors
WHERE DepartmentID = 9;
DELETE FROM Departments
WHERE DepartmentID = 9;
```

Messages
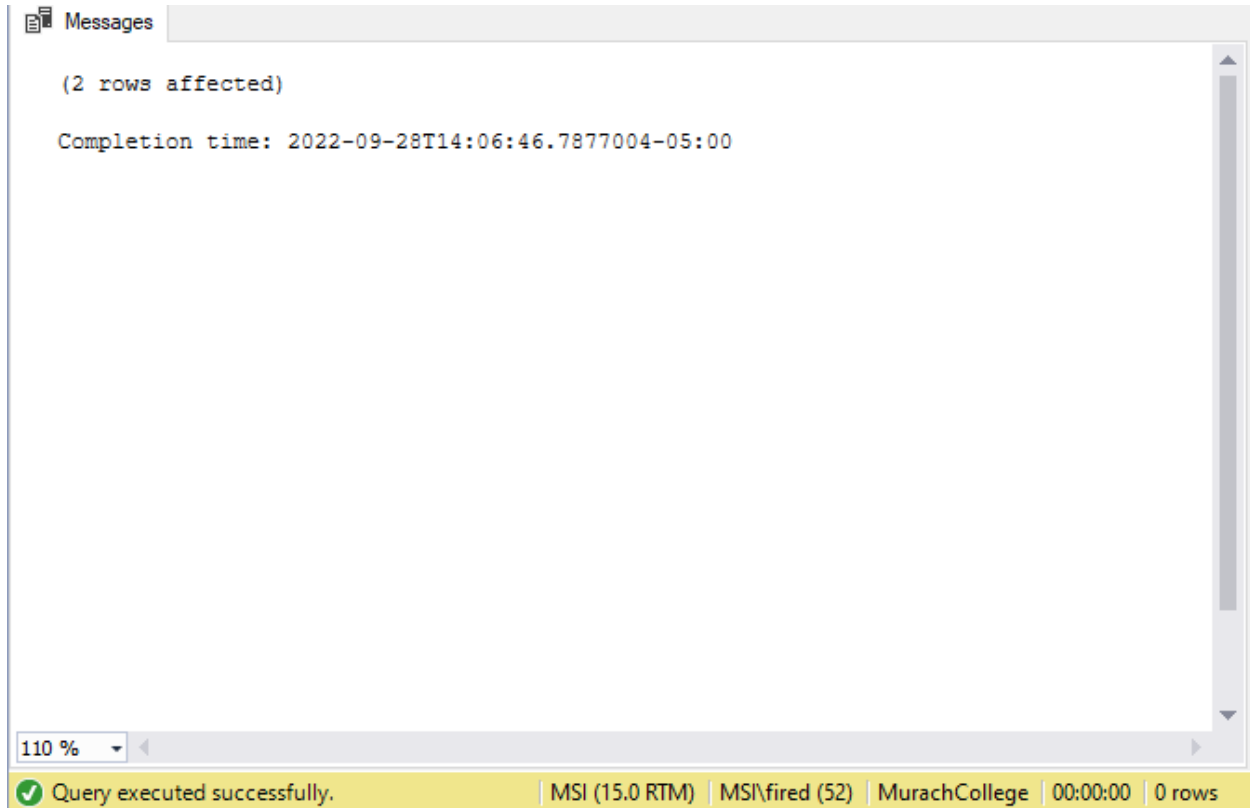
```
(1 row affected)

(1 row affected)

Completion time: 2022-09-28T14:05:36.7185918-05:00
```

110 %

✔ Query executed successfully.   MSI (15.0 RTM)   MSI\fired (52)   MurachCollege   00:00:00   0 rows

Assignment 5
James Livingstone

Answer #11

```sql
UPDATE Instructors
SET AnnualSalary = (1.05*AnnualSalary)
FROM Instructors AS I
        JOIN Departments AS D
ON I.DepartmentID = D.DepartmentID
WHERE D.DepartmentName = 'Education';
```
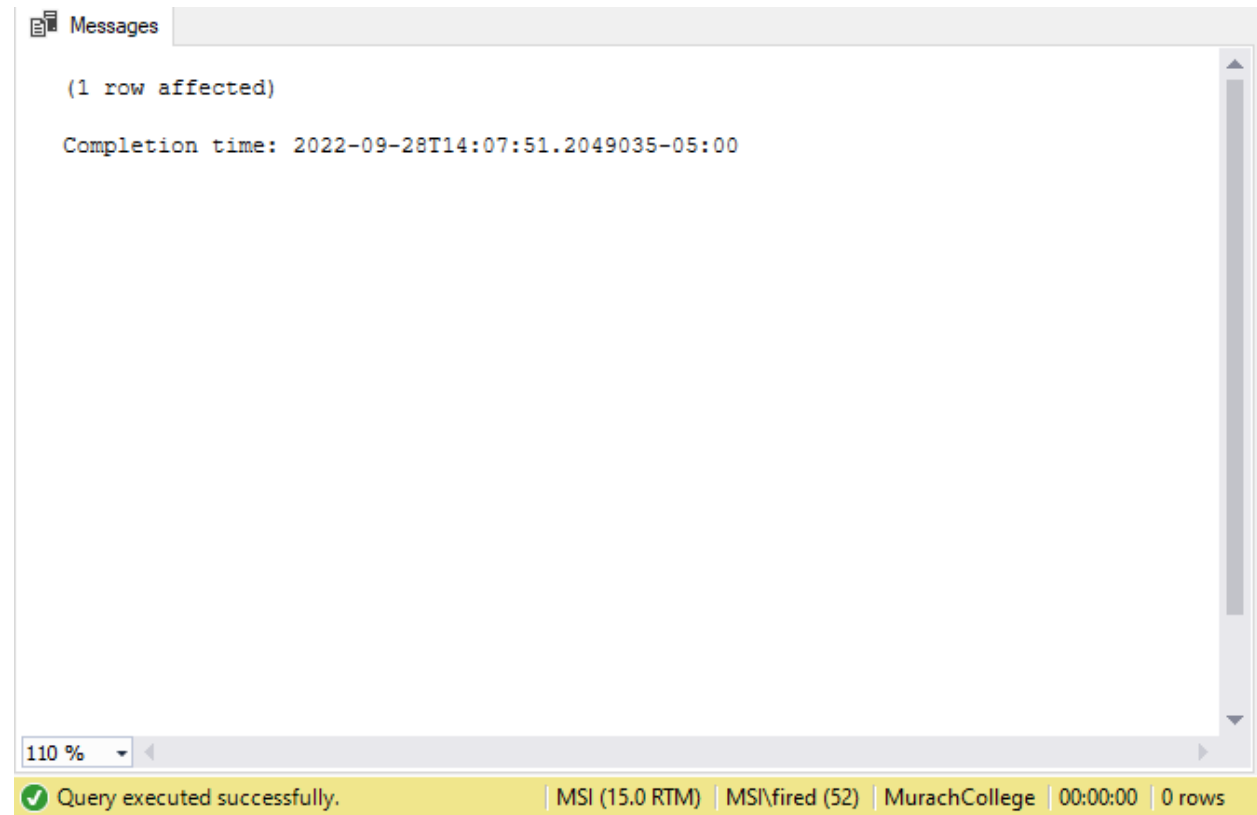
Messages

```
(2 rows affected)

Completion time: 2022-09-28T14:06:46.7877004-05:00
```

110 %

Query executed successfully.   MSI (15.0 RTM) MSI\fired (52) MurachCollege 00:00:00 0 rows

Assignment 5
James Livingstone

Answer #12

```sql
DELETE FROM Instructors
WHERE InstructorID NOT IN
      (SELECT InstructorID
       FROM Courses );
```
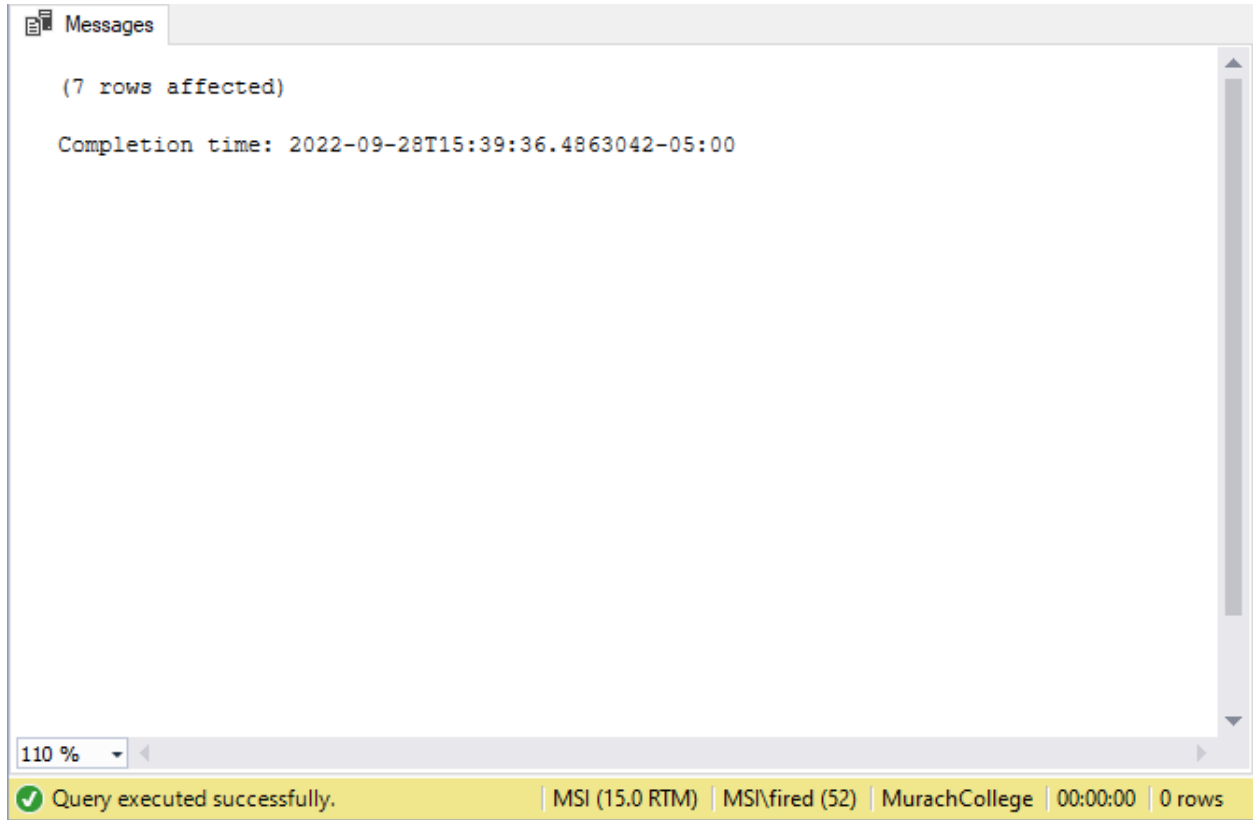
Messages

(1 row affected)

Completion time: 2022-09-28T14:07:51.2049035-05:00

110 %

Query executed successfully.   MSI (15.0 RTM) | MSI\fired (52) | MurachCollege | 00:00:00 | 0 rows

Assignment 5
James Livingstone

Answer #13

```sql
SELECT * INTO GradStudents FROM Students
WHERE GraduationDate IS NOT NULL;
```

📄 Messages

  (7 rows affected)

  Completion time: 2022-09-28T15:39:36.4863042-05:00

110 %

✅ Query executed successfully. | MSI (15.0 RTM) | MSI\fired (52) | MurachCollege | 00:00:00 | 0 rows

Assignment 5
James Livingstone

Answer #14

```sql
SELECT  AnnualSalary/12 AS 'MonthlySalary',
          CAST(AnnualSalary/12 AS DECIMAL(10,1)) AS 'Cast_MonthlySalary',
          CONVERT(INT, AnnualSalary/12) AS 'Convert_MonthlySalary_Int',
          CAST(AnnualSalary/12 AS INT) AS 'Cast_MonthlySalary_Int'
FROM Instructors;
```

	MonthlySalary	Cast_MonthlySalary	Convert_MonthlySalary_Int	Cast_MonthlySalary_Int
1	6458.3333	6458.3	6458	6458
2	3208.3333	3208.3	3208	3208
3	6583.3333	6583.3	6583	6583
4	6250.00	6250.0	6250	6250
5	6166.6666	6166.7	6167	6167
6	3166.6666	3166.7	3167	3167
7	6387.50	6387.5	6388	6388
8	5958.3333	5958.3	5958	5958
9	6166.6666	6166.7	6167	6167
10	2958.3333	2958.3	2958	2958
11	2958.3333	2958.3	2958	2958
12	2975.00	2975.0	2975	2975
13	2750.00	2750.0	2750	2750
14	6000.00	6000.0	6000	6000
15	5333.3333	5333.3	5333	5333

Query executed successfully. | MSI (15.0 RTM) | MSI\fired (52) | MurachCollege | 00:00:00 | 15 rows

Assignment 5
James Livingstone

Answer #15

```sql
SELECT  EnrollmentDate,
            CAST(EnrollmentDate AS DATE) AS 'Cast_EnrollmentDate',
            CAST(EnrollmentDate AS DATETIME) AS 'Cast_EnrollmentDate1',
            CAST(EnrollmentDate AS CHAR(7)) AS 'Cast_EnrollmentDate2'
FROM Students;
```

	EnrollmentDate	Cast_EnrollmentDate	Cast_EnrollmentDate1	Cast_EnrollmentDate2
1	2015-12-18 16:44:26	2015-12-18	2015-12-18 16:44:26.000	2015-12
2	2015-12-20 11:12:26	2015-12-20	2015-12-20 11:12:26.000	2015-12
3	2015-12-21 09:21:55	2015-12-21	2015-12-21 09:21:55.000	2015-12
4	2015-12-21 13:23:10	2015-12-21	2015-12-21 13:23:10.000	2015-12
5	2015-12-28 10:32:16	2015-12-28	2015-12-28 10:32:16.000	2015-12
6	2016-01-02 12:37:31	2016-01-02	2016-01-02 12:37:31.000	2016-01
7	2016-01-03 13:08:37	2016-01-03	2016-01-03 13:08:37.000	2016-01
8	2016-01-03 15:44:56	2016-01-03	2016-01-03 15:44:56.000	2016-01
9	2016-07-15 11:14:23	2016-07-15	2016-07-15 11:14:23.000	2016-07
10	2016-07-15 17:02:45	2016-07-15	2016-07-15 17:02:45.000	2016-07
11	2016-07-18 12:48:43	2016-07-18	2016-07-18 12:48:43.000	2016-07
12	2016-07-20 09:37:53	2016-07-20	2016-07-20 09:37:53.000	2016-07
13	2016-07-22 11:18:25	2016-07-22	2016-07-22 11:18:25.000	2016-07
14	2016-12-10 15:31:28	2016-12-10	2016-12-10 15:31:28.000	2016-12
15	2016-12-12 14:22:53	2016-12-12	2016-12-12 14:22:53.000	2016-12
16	2016-12-14 16:42:11	2016-12-14	2016-12-14 16:42:11.000	2016-12
17	2016-12-22 08:43:48	2016-12-22	2016-12-22 08:43:48.000	2016-12
18	2017-01-02 11:28:49	2017-01-02	2017-01-02 11:28:49.000	2017-01
19	2017-01-04 10:42:06	2017-01-04	2017-01-04 10:42:06.000	2017-01

Query executed successfully. | MSI (15.0 RTM) | MSI\fired (52) | MurachCollege | 00:00:00 | 43 rows

Assignment 5
James Livingstone

Answer #16

```sql
SELECT  EnrollmentDate,
            CONVERT(VARCHAR, EnrollmentDate, 101) AS 'Convert_EnrollmentDate',
            CONVERT(VARCHAR, EnrollmentDate, 100) AS 'Convert_EnrollmentDate1',
            CONVERT(VARCHAR, EnrollmentDate, 113) AS 'Convert_EnrollmentDate2',
            CONVERT(VARCHAR(5), EnrollmentDate, 101) AS 'Convert_EnrollmentDate3'
FROM Students;
```

	EnrollmentDate	Convert_EnrollmentDate	Convert_EnrollmentDate1	Convert_EnrollmentDate2	Convert_EnrollmentDate3
1	2015-12-18 16:44:26	12/18/2015	Dec 18 2015 4:44PM	18 Dec 2015 16:44:26	12/18
2	2015-12-20 11:12:26	12/20/2015	Dec 20 2015 11:12AM	20 Dec 2015 11:12:26	12/20
3	2015-12-21 09:21:55	12/21/2015	Dec 21 2015 9:21AM	21 Dec 2015 09:21:55	12/21
4	2015-12-21 13:23:10	12/21/2015	Dec 21 2015 1:23PM	21 Dec 2015 13:23:10	12/21
5	2015-12-28 10:32:16	12/28/2015	Dec 28 2015 10:32AM	28 Dec 2015 10:32:16	12/28
6	2016-01-02 12:37:31	01/02/2016	Jan 2 2016 12:37PM	02 Jan 2016 12:37:31	01/02
7	2016-01-03 13:08:37	01/03/2016	Jan 3 2016 1:08PM	03 Jan 2016 13:08:37	01/03
8	2016-01-03 15:44:56	01/03/2016	Jan 3 2016 3:44PM	03 Jan 2016 15:44:56	01/03
9	2016-07-15 11:14:23	07/15/2016	Jul 15 2016 11:14AM	15 Jul 2016 11:14:23	07/15
10	2016-07-15 17:02:45	07/15/2016	Jul 15 2016 5:02PM	15 Jul 2016 17:02:45	07/15
11	2016-07-18 12:48:43	07/18/2016	Jul 18 2016 12:48PM	18 Jul 2016 12:48:43	07/18
12	2016-07-20 09:37:53	07/20/2016	Jul 20 2016 9:37AM	20 Jul 2016 09:37:53	07/20
13	2016-07-22 11:18:25	07/22/2016	Jul 22 2016 11:18AM	22 Jul 2016 11:18:25	07/22
14	2016-12-10 15:31:28	12/10/2016	Dec 10 2016 3:31PM	10 Dec 2016 15:31:28	12/10
15	2016-12-12 14:22:53	12/12/2016	Dec 12 2016 2:22PM	12 Dec 2016 14:22:53	12/12
16	2016-12-14 16:42:11	12/14/2016	Dec 14 2016 4:42PM	14 Dec 2016 16:42:11	12/14
17	2016-12-22 08:43:48	12/22/2016	Dec 22 2016 8:43AM	22 Dec 2016 08:43:48	12/22

Query executed successfully.   MSI (15.0 RTM) | MSI\fired (52) | MurachCollege | 00:00:00 | 43 rows