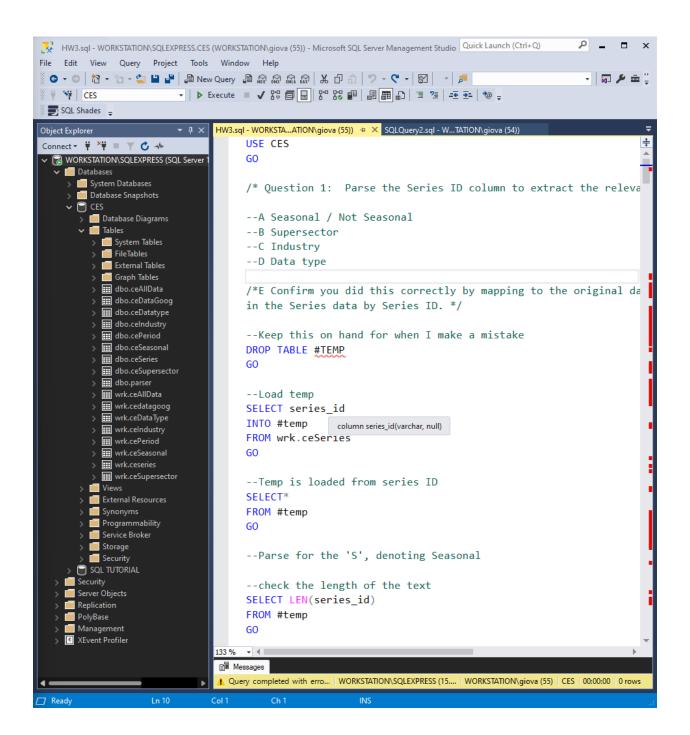
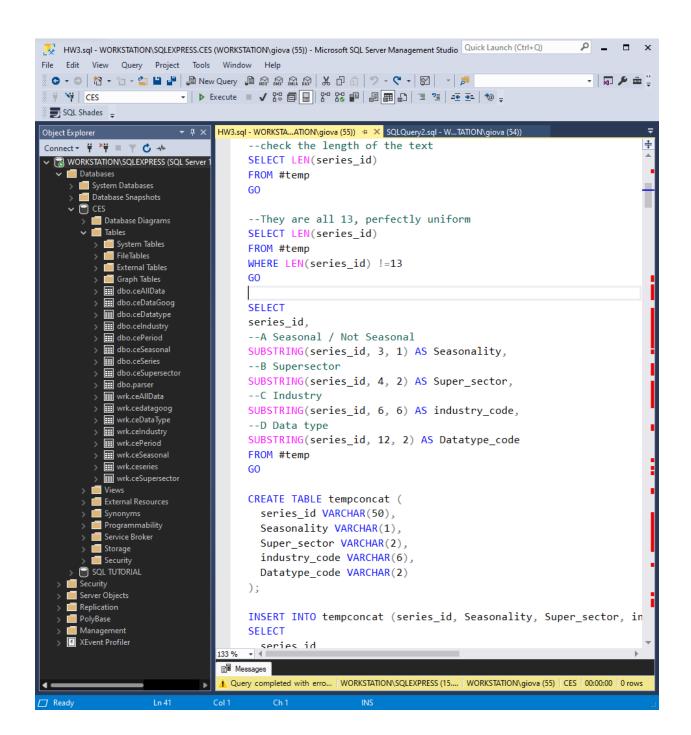
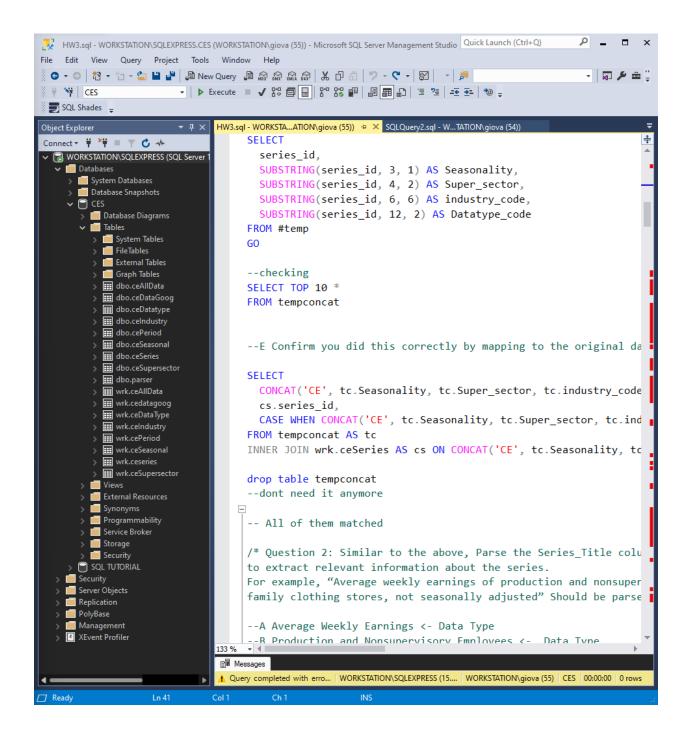
/* Question 1: Parse the Series ID column to extract the relevant information. */

```
-- A Seasonal / Not Seasonal
--B Supersector
--C Industry
--D Data type
/*E Confirm you did this correctly by mapping to the original data
in the Series data by Series ID. */
--Keep this on hand for when I make a mistake
DROP TABLE #TEMP
GO
--Load temp
SELECT series id
INTO #temp
FROM wrk.ceSeries
-- Temp is loaded from series ID
SELECT*
FROM #temp
G0
--Parse for the 'S', denoting Seasonal
--check the length of the text
SELECT LEN(series_id)
FROM #temp
-- They are all 13, perfectly uniform
SELECT LEN(series_id)
FROM #temp
WHERE LEN(series_id) !=13
GO.
SELECT
series id,
--A Seasonal / Not Seasonal
SUBSTRING(series_id, 3, 1) AS Seasonality,
--B Supersector
SUBSTRING(series_id, 4, 2) AS Super_sector,
-- C Industry
SUBSTRING(series_id, 6, 6) AS industry_code,
--D Data type
SUBSTRING(series_id, 12, 2) AS Datatype_code
FROM #temp
CREATE TABLE tempconcat (
```

```
series_id VARCHAR(50),
  Seasonality VARCHAR(1),
  Super sector VARCHAR(2),
  industry_code VARCHAR(6),
  Datatype_code VARCHAR(2)
);
INSERT INTO tempconcat (series id, Seasonality, Super sector, industry code,
Datatype code)
SELECT
  series id,
  SUBSTRING(series_id, 3, 1) AS Seasonality,
  SUBSTRING(series_id, 4, 2) AS Super_sector,
  SUBSTRING(series_id, 6, 6) AS industry_code,
  SUBSTRING(series_id, 12, 2) AS Datatype_code
FROM #temp
GO
--checking
SELECT TOP 10 *
FROM tempconcat
--E Confirm you did this correctly by mapping to the original data in the Series data by
Series ID.
SELECT
 CONCAT('CE', tc.Seasonality, tc.Super_sector, tc.industry_code, tc.Datatype_code) AS
concatenated_column,
  cs.series_id,
  CASE WHEN CONCAT('CE', tc.Seasonality, tc.Super_sector, tc.industry_code,
tc.Datatype_code) = cs.series_id THEN 'Matched' ELSE 'Not Matched' END AS matching_status
FROM tempconcat AS tc
INNER JOIN wrk.ceSeries AS cs ON CONCAT('CE', tc.Seasonality, tc.Super_sector,
tc.industry_code, tc.Datatype_code) = cs.series_id;
drop table tempconcat
--dont need it anymore
-- All of them matched
```



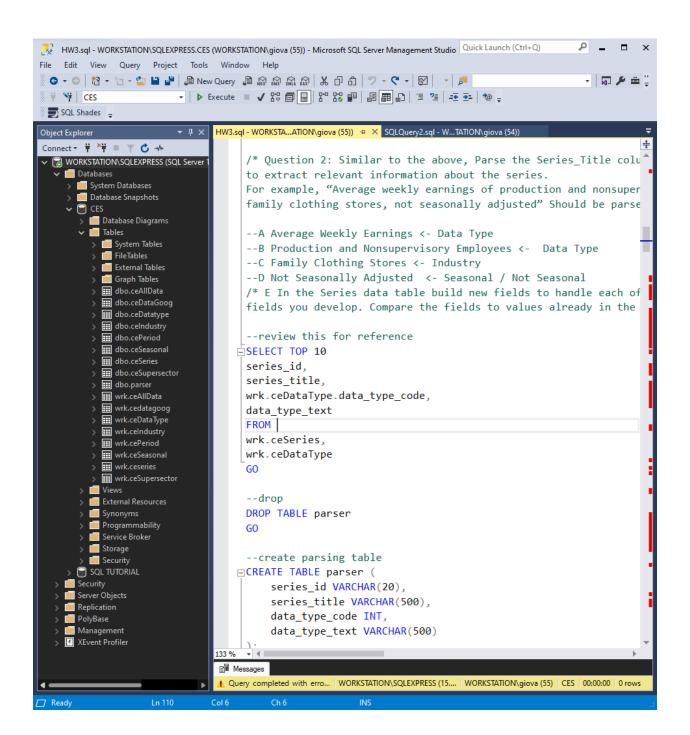




/* Question 2: Similar to the above, Parse
the Series_Title column
to extract relevant information about the
series.

For example, "Average weekly earnings of production and nonsupervisory employees, family clothing stores, not seasonally adjusted" Should be parsed into the following: */

```
-- A Average Weekly Earnings <- Data Type
--B Production and Nonsupervisory Employees <- Data Type
-- C Family Clothing Stores <- Industry
--D Not Seasonally Adjusted <- Seasonal / Not Seasonal
/* E In the Series data table build new fields to handle each of the above
fields you develop. Compare the fields to values already in the table. */
--review this for reference
SELECT TOP 10
series_id,
series_title,
wrk.ceDataType.data_type_code,
data_type_text
FROM
wrk.ceSeries,
wrk.ceDataType
G0
--drop
DROP TABLE parser
--create parsing table
CREATE TABLE parser (
   series_id VARCHAR(20),
   series_title VARCHAR(500),
   data_type_code INT,
   data_type_text VARCHAR(500)
--parse this table
INSERT INTO parser (series_id, series_title, data_type_code, data_type_text)
SELECT
   cs.series_id,
   cs.series title,
   dt.data type code,
   dt.data_type_text
   wrk.ceSeries AS cs
   INNER JOIN wrk.ceDataType AS dt ON cs.data_type_code = dt.data_type_code;
GO
```



```
HW3.sql - WORKSTATION\SQLEXPRESS.CES (WORKSTATION\giova (55)) - Microsoft SQL Server Management Studio | Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
   🖔 😋 🕶 🖹 🕶 👆 當 💾 🛂 🚇 New Query 🚇 😭 🔬 🏔 🎧 🛣 🗂 🗂 🤚 🤊 - 😍 🕒 🚽 🎉
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           - | 🗊 🔑 🏯 🗒
                                                                                                                                                          - | ▶ Execute ■ ✔ # 🗊 🗐 🗐 # # # 🗊 🗐 🗐 🗃 🕒 😉 💤 ಶ 🛫
       SQL Shades 💂
   Object Explorer
                                                                                                                                                                                                HW3.sql - WORKSTA...ATION\giova (55)) → × SQLQuery2.sql - W...TATION\giova (54))
    Connect ▼ ¥ ¥ ■ ▼ 🖒 🦇
      --create parsing table
                              Databases
                                                                                                                                                                                                                           □CREATE TABLE parser (
                                           System Databases
                                                                                                                                                                                                                                                                series_id VARCHAR(20),
                                           Database Snapshots
                                                                                                                                                                                                                                                                series_title VARCHAR(500),
                                         CES
                                                      Database Diagrams
                                                                                                                                                                                                                                                                data_type_code INT,
                                               🗸 🔳 Tables
                                                                                                                                                                                                                                                              data_type_text VARCHAR(500)
                                                           > 🗐 System Tables
                                                                                                                                                                                                                              );
                                                                    FileTables
                                                                                                                                                                                                                                     GO
                                                                   External Tables
Graph Tables

    dbo.ceAllData

                                                                                                                                                                                                                                     --parse this table

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    dbo.ceDatatype
    dbo.
                                                                                                                                                                                                                                    SELECT

    dbo.ceIndustry

                                                                      ■ dbo.cePeriod
                                                                                                                                                                                                                                                                cs.series_id,
                                                                      ## dbo.ceSeasonal
                                                                                                                                                                                                                                                              cs.series_title,

    ■ dbo.ceSeries

                                                                                                                                                                                                                                                                dt.data_type_code,
                                                                      ## dbo.ceSupersector
                                                                                                                                                                                                                                                                dt.data_type_text

    dbo.parser
    dbo.parser

                                                                                                                                                                                                                                    FROM
                                                                      Ⅲ wrk.ceAllData
                                                                      wrk.cedatagoog
                                                                                                                                                                                                                                                                wrk.ceSeries AS cs
                                                                      wrk.ceDataType
                                                                                                                                                                                                                                                                INNER JOIN wrk.ceDataType AS dt ON cs.data_type_code = dt.da
                                                                     wrk.celndustry

    wrk.cePeriod
    wrk.cePeriod

                                                                      wrk.ceSeasonal
                                                                      wrk.ceseries
                                                                                                                                                                                                                                    --check it (I started with D for some reason, gonna fix the orde
                                                                     Ⅲ wrk.ceSupersector
                                                                                                                                                                                                                           FROM PARSER
                                                        External Resources
                                                                                                                                                                                                                                     GO
                                                                    Synonyms
                                                                    Programmability
                                                        Service Broker
                                                                                                                                                                                                                                    --START OF A, Average Weekly Earnings <- Data Type
                                                                    Storage
                                                       Security
                                                                                                                                                                                                                           ■SELECT *
                                           SQL TUTORIAL
                                                                                                                                                                                                                                    FROM PARSER
                                                                                                                                                                                                                                    GO
                                            Server Objects
                              Replication
                                                                                                                                                                                                                           ■ALTER TABLE parser
                                            PolyBase
                                                                                                                                                                                                                              DROP COLUMN Average_Weekly_Earnings;
                                            Management
                              XEvent Profiler
                                                                                                                                                                                                  GO
133 % →
                                                                                                                                                                                                      Messages
                                                                                                                                                                                                      ▲ Query completed with erro... | WORKSTATION\SQLEXPRESS (15.... | WORKSTATION\giova (55) | CES | 00:00:00 | 0 rows
```

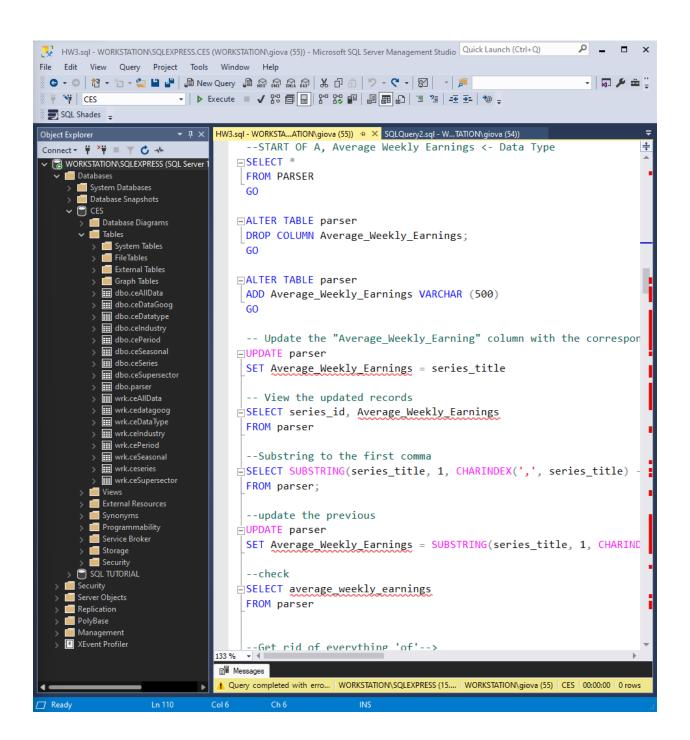
--START OF A, Average Weekly Earnings <-Data Type

```
SELECT *
FROM PARSER
GO

ALTER TABLE parser
DROP COLUMN Average_Weekly_Earnings;
GO
```

```
ALTER TABLE parser
ADD Average Weekly Earnings VARCHAR (500)
-- Update the "Average_Weekly_Earning" column with the corresponding values
UPDATE parser
SET Average Weekly Earnings = series title
-- View the updated records
SELECT series_id, Average_Weekly_Earnings
FROM parser
--Substring to the first comma
SELECT SUBSTRING(series_title, 1, CHARINDEX(',', series_title) - 1) AS First_Part
FROM parser;
--update the previous
UPDATE parser
SET Average_Weekly_Earnings = SUBSTRING(series_title, 1, CHARINDEX(',', series_title) -
1)
--check
SELECT average_weekly_earnings
FROM parser
--Get rid of everything 'of'-->
SELECT
 SUBSTRING(Average_Weekly_Earnings, 1, CHARINDEX(' of', Average_Weekly_Earnings + ' of')
- 1) AS Average_Weekly_Earnings
FROM parser;
-- Update the "Average_Weekly_Earnings" column
UPDATE parser
SET Average_Weekly_Earnings = SUBSTRING(Average_Weekly_Earnings, 1, CHARINDEX(' of',
Average_Weekly_Earnings + ' of') - 1);
-- Display the updated data
SELECT Average_Weekly_Earnings
FROM parser;
```

-- A is Done



```
HW3.sql - WORKSTATION\SQLEXPRESS.CES (WORKSTATION\giova (55)) - Microsoft SQL Server Management Studio Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        - | 🗊 🔑 🏯 🗒
                                                                                                                                                         - | ▶ Execute ■ ✔ # 🗊 🗐 🗐 # # # 🗊 🗐 🗐 🗃 🕒 😉 💤 ಶ 🛫
        SQL Shades =
   Object Explorer
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    Connect ▼ * ♥ ■ ▼ ♂ →
                                                                                                                                                                                                                                    SET Average Weekly Earnings = SUBSTRING(series_title, 1, CHARIND =
      Databases
                                                                                                                                                                                                                                     --check
                                          System Databases
                                                                                                                                                                                                                          SELECT average_weekly_earnings
                                          Database Snapshots
                                                                                                                                                                                                                                    FROM parser
                                         CES
                                              > 🔳 Database Diagrams
                                               🗸 i Tables
                                                           > 🗐 System Tables
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                                                                    FileTables
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                                                                  External Tables
Graph Tables
                                                                                                                                                                                                                                                 SUBSTRING(Average_Weekly_Earnings, 1, CHARINDEX(' of', Average |
                                                                      Ⅲ dbo.ceAllData

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                                                                                                                                                                                                                                   -- Update the "Average_Weekly_Earnings" column
                                                                      statype dbo.ceDatatype
                                                                                                                                                                                                                          <u></u>UPDATE parser

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                                                                                                                                                                                                                                   SET Average_Weekly_Earnings = SUBSTRING(Average_Weekly_Earnings,

    dbo.ceSeasonal

    dbo.ceSeries
    dbo.ceSeries

                                                                                                                                                                                                                                     -- Display the updated data

    ■ dbo.ceSupersector

                                                                                                                                                                                                                          SELECT Average Weekly Earnings
                                                                     Ⅲ dbo.parser
                                                                                                                                                                                                                                   FROM parser;

    wrk.ceAllData

                                                                      wrk.cedatagoog
                                                                      wrk.ceDataType
                                                                                                                                                                                                                         └--A is Done
                                                                      wrk.celndustry

    wrk.cePeriod
    wrk.cePeriod

                                                                      wrk.ceSeasonal
                                                                                                                                                                                                                                     --Start of B: Production and Nonsupervisory Employees <- Data T
                                                                      wrk.ceseries
                                                                     Ⅲ wrk.ceSupersector
                                                                                                                                                                                                                          ĖSELECT *
                                                                                                                                                                                                                                   FROM parser
                                                       External Resources
                                                                    Synonyms
                                                                  Programmability
                                                                                                                                                                                                                          ALTER TABLE parser
                                                       Service Broker
                                                                                                                                                                                                                                   ADD datatype2 VARCHAR(500);
                                                      Security
                                          SQL TUTORIAL
                                                                                                                                                                                                                                    --Load series titles in
                                             Server Objects
                                                                                                                                                                                                                          ⊟UPDATE parser
                                Replication
                                                                                                                                                                                                                                   SET datatype2 = series_title;
                                             Management
                                           XEvent Profiler

    Messages

                                                                                                                                                                                                      ⚠ Query completed with erro... | WORKSTATION\SQLEXPRESS (15.... | WORKSTATION\giova (55) | CES | 00:00:00 | 0 rows
```

--Start of B: Production and Nonsupervisory Employees <- Data Type</pre>

```
SELECT *
FROM parser

ALTER TABLE parser
ADD datatype2 VARCHAR(500);
```

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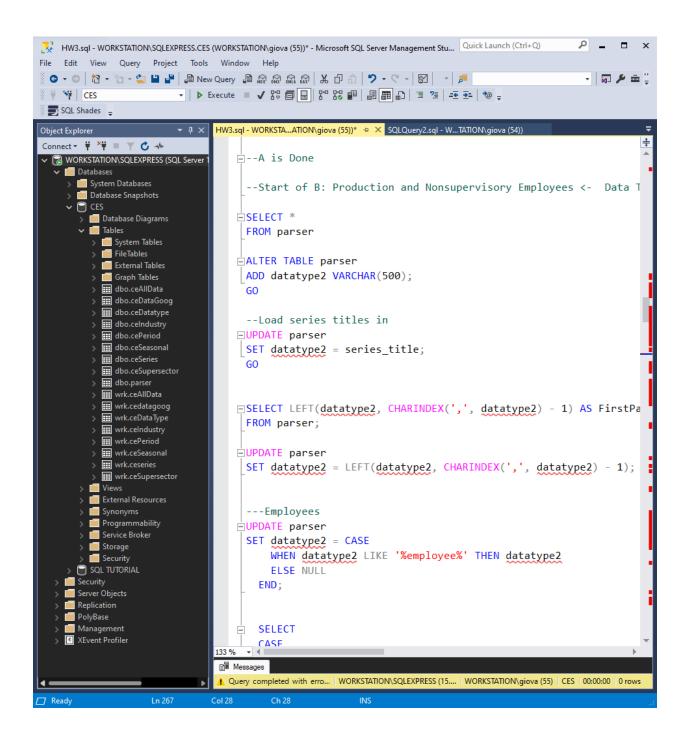
```
--Load series titles in
UPDATE parser
SET datatype2 = series_title;
G0
SELECT LEFT(datatype2, CHARINDEX(',', datatype2) - 1) AS FirstPart
FROM parser;
UPDATE parser
SET datatype2 = LEFT(datatype2, CHARINDEX(',', datatype2) - 1);
---Employees
UPDATE parser
SET datatype2 = CASE
   WHEN datatype2 LIKE '%employee%' THEN datatype2
   ELSE NULL
  END;
 SELECT
 CASE
   WHEN CHARINDEX('of', datatype2) > 0 THEN SUBSTRING(datatype2, CHARINDEX('of',
datatype2) + 3, LEN(datatype2))
   ELSE datatype2
  END AS UpdatedValue
FROM parser;
UPDATE parser
SET datatype2 =
 CASE
   WHEN CHARINDEX('of', datatype2) > 0 THEN SUBSTRING(datatype2, CHARINDEX('of',
datatype2) + 3, LEN(datatype2))
   ELSE datatype2
  END;
SELECT datatype2
FROM parser
SELECT
  CASE
   WHEN CHARINDEX('of', datatype2) > 0 THEN RIGHT(datatype2, LEN(datatype2) -
CHARINDEX('of', datatype2) - 2)
   ELSE datatype2
  END AS datatype2
FROM parser;
UPDATE parser
SET datatype2 = CASE
   WHEN CHARINDEX('of', datatype2) > 0 THEN RIGHT(datatype2, LEN(datatype2) -
CHARINDEX('of', datatype2) - 2)
```

```
ELSE datatype2
END;

SELECT *
FROM parser

UPDATE parser
SET Average_Weekly_Earnings = 'N/A'
WHERE Average_Weekly_Earnings = datatype2;
SElect *
FROM parser
```

--Done



```
HW3.sql - WORKSTATION\SQLEXPRESS.CES (WORKSTATION\giova (55))* - Microsoft SQL Server Management Stu... Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            - | 🗊 🔑 🏝 🗒
   ③ G → ◎ | 🍪 → 🖫 → 😩 💾 🚅 | 🗿 New Query 👂 😭 😭 🛣 🛣 🛣 🛣 🛣 🗂 🗂 | 🦅 → 🤍 → | 🐼 | → | 🎏 |
                                                                                                                                                                  - | ▶ Execute ■ ✔ 왕 🗊 🖥 망 郞 🗊 🕮 🕮 🗀 😉 🏞 ಶ 🛫
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  Object Explorer

    SELECT

    Connect ▼ * ♥ ■ ▼ 🖒 - №

▼ 

¬ WORKSTATION\SQLEXPRESS (SQL Server)

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                                                                                                                                                                                                                                                                CASE

✓ ■ Databases

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                                             System Databases
                                                                                                                                                                                                                                                                            ELSE datatype2
                                            Database Snapshots
                                                                                                                                                                                                                                                                END AS UpdatedValue
                                CES
                                                                                                                                                                                                                                                  FROM parser;
                                               > 🗐 Database Diagrams

▼ iii Tables

                                                             > System Tables
> FileTables
                                                                                                                                                                                                                                      <u></u>
<u>UPDATE</u> parser
                                                                                                                                                                                                                                                  SET datatype2 =
                                                             > External Tables
> Graph Tables
                                                                                                                                                                                                                                                              CASE
                                                                         dbo.ceAllData
                                                                                                                                                                                                                                                                              WHEN CHARINDEX('of', datatype2) > 0 THEN SUBSTRING(datatype2

    ■ dbo.ceDataGoog

                                                                                                                                                                                                                                                                            ELSE datatype2
                                                                         dbo.ceDatatype
                                                                                                                                                                                                                                                                END;

    ■ dbo.ceIndustry

    dbo.cePeriod
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                                                                         dbo.ceSeasonal

    dbo.ceSeries
    dbo.ceSeries

    ■ dbo.ceSupersector

                                                                                                                                                                                                                                      dbo.parser
                                                                                                                                                                                                                                                FROM parser

    wrk.ceAllData

                                                                         Ⅲ wrk.cedatagoog
                                                                         wrk.ceDataType
                                                                         wrk.celndustry
                                                                                                                                                                                                                                      ≐SELECT

    wrk.cePeriod
    wrk.cePeriod

                                                                         wrk.ceSeasonal
                                                                                                                                                                                                                                                              CASE
                                                                         mrk.ceseries
                                                                                                                                                                                                                                                                              WHEN CHARINDEX('of', datatype2) > 0 THEN RIGHT(datatype2, LE
                                                                        Ⅲ wrk.ceSupersector
                                                                                                                                                                                                                                                                            ELSE datatype2
                                                         Views
                                                                                                                                                                                                                                                                END AS datatype2
                                                         External Resources
                                                       Synonyms
Programmability
                                                                                                                                                                                                                                                  FROM parser;
                                                          Service Broker
                                                     Storage
Security
                                                                                                                                                                                                                                       <u></u>UPDATE parser
                                            SQL TUTORIAL
                                                                                                                                                                                                                                                   SET datatype2 = CASE
                                               Security
                                                                                                                                                                                                                                                                            WHEN CHARINDEX('of', datatype2) > 0 THEN RIGHT(datatype2, LE
                                Server Objects
                                                                                                                                                                                                                                                                            ELSE datatype2
                               Replication
                                                                                                                                                                                                                                                                END;
                                     Management
                                XEvent Profiler
                                                                                                                                                                                                              SFI FCT *
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HW3.sql - WORKSTATION\SQLEXPRESS.CES (WORKSTATION\giova (55))* - Microsoft SQL Server Management Stu... Quick Launch (Ctrl+Q)
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                                                                                                                                                      ▼ ‡ × HW3.sql - WORKSTA...ATION\giova (55))* → × SQLQuery2.sql - W...TATION\giova (54))
  Object Explorer
    Connect ▼ * ♥ ■ ▼ 🖒 - №
                                                                                                                                                                                                                      UPDATE parser

✓ ■ Databases

                                                                                                                                                                                                                                  SET datatype2 = CASE
                                          System Databases
                                                                                                                                                                                                                                                           WHEN CHARINDEX('of', datatype2) > 0 THEN RIGHT(datatype2, LE
                                          Database Snapshots
                                                                                                                                                                                                                                                           ELSE datatype2
                               CES
                                                                                                                                                                                                                                              END;
                                            > 🗐 Database Diagrams

▼ iii Tables

                                                         > System Tables
> FileTables
                                                                                                                                                                                                                       ĖSELECT *
                                                                                                                                                                                                                                 FROM parser
                                                          > External Tables
> Graph Tables
                                                                    Ⅲ dbo.ceAllData
                                                                                                                                                                                                                       <u></u>UPDATE parser

    ■ dbo.ceDataGoog

                                                                                                                                                                                                                                SET Average Weekly Earnings = 'N/A'
                                                                    dbo.ceDatatype
                                                                                                                                                                                                                                WHERE Average Weekly Earnings = datatype2;

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                                                                    dbo.ceSeasonal
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    ■ dbo.ceSeries

                                                                                                                                                                                                                                 FROM parser

    ■ dbo.ceSupersector

                                                                    dbo.parser
                                                                                                                                                                                                                      ⊟--Done-----

    wrk.ceAllData
    wrk
                                                                     wrk.cedatagoog
                                                                     wrk.ceDataType
                                                                                                                                                                                                                                ----Start of C----
                                                                    Ⅲ wrk.celndustry

    wrk.cePeriod
    wrk.cePeriod

                                                                     wrk.ceSeasonal
                                                                                                                                                                                                                                  -- Add the "industry" column to the "parser" table
                                                                    mrk.ceseries
                                                                                                                                                                                                                       -ALTER TABLE parser
                                                                   Ⅲ wrk.ceSupersector
                                                                                                                                                                                                                                DROP COLUMN indus
                                                      Views
                                                      External Resources
                                                                                                                                                                                                                       ALTER TABLE parser
                                                      Synonyms
                                                      Programmability
                                                                                                                                                                                                                                 ADD indus VARCHAR(500);
                                                      Service Broker
                                                  Storage
Security
                                                                                                                                                                                                                                -- Update the "industry" column with the values from the "series
                                         SQL TUTORIAL
                                                                                                                                                                                                                       <u></u>UPDATE parser
                                            Security
                                                                                                                                                                                                                                SET indus = series_title;
                               Server Objects
                              Replication
                                                                                                                                                                                                                      <u></u>UPDATE parser
                                           PolyBase
                                          Management
                                                                                                                                                                                                                          SET indus = SUBSTRING(series_title, CHARINDEX(',', series_title)
                              XEvent Profiler
                                                                                                                                                                                              GO
133 % →

    Messages

                                                                                                                                                                                                  ↑ Query completed with erro... | WORKSTATION\SQLEXPRESS (15.... | WORKSTATION\giova (55) | CES | 00:00:00 | 0 rows
```

```
-- Add the "industry" column to the "parser" table
ALTER TABLE parser
DROP COLUMN indus
ALTER TABLE parser
ADD indus VARCHAR(500);
-- Update the "industry" column with the values from the "series title" column
UPDATE parser
SET indus = series_title;
UPDATE parser
SET indus = SUBSTRING(series_title, CHARINDEX(',', series_title) + 1, LEN(series_title));
UPDATE parser
SET indus = TRIM(REPLACE(REPLACE(indus, 'seasonally adjusted', ''), ',', ''))
GO
UPDATE parser
SET indus =
TRIM(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(R
                   'seasonally adjusted', ''),
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                 'not', ''),
'2002', ''),
                  '=', ''),
'100', ''),
                  '1982', ''),
'84', ''),
'2007', ''), ',', ''))
GO
UPDATE parser
SET indus =
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G0
UPDATE parser
SET indus = TRIM(REPLACE(REPLACE(indus, 's', ''), 'span', ''), ',', ''))
UPDATE parser
SET indus = TRIM(REPLACE(indus, 's', ''))
UPDATE parser
SET indus = REPLACE(indus, 's total private', 'total private')
WHERE indus = 's total private'
G0
UPDATE parser
SET indus = REPLACE(indus, 's total nonfarm', 'total nonfarm')
```

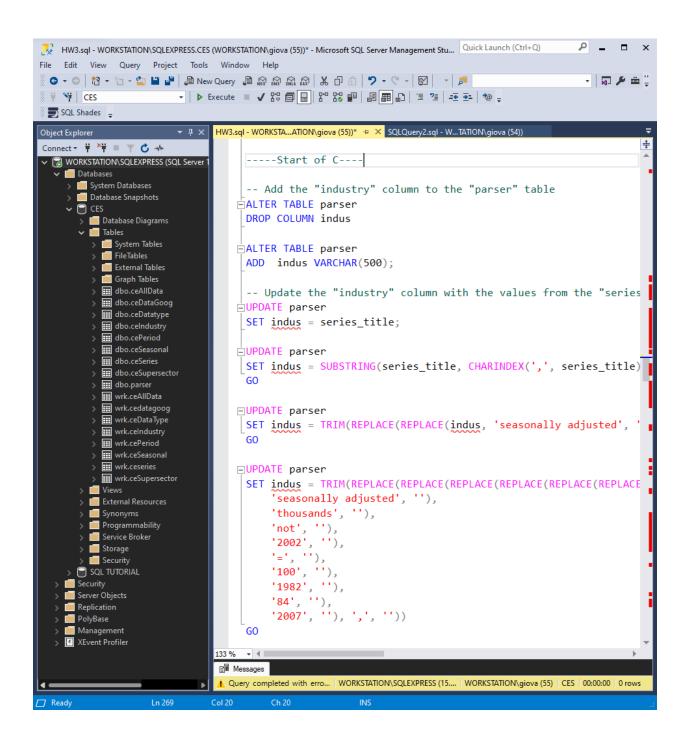
```
WHERE indus = 's total nonfarm'
GO

UPDATE parser
SET indus = REPLACE(indus, 's total private', 'total private')
WHERE indus = 's total private'
GO

UPDATE parser
SET indus = REPLACE(indus, 'change total nonfarm', 'total nonfarm')
WHERE indus = 'change total nonfarm'
GO

SELECT indus
FROM parser
GO

--Done -
```



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  HW3.sql - WORKSTATION\SQLEXPRESS.CES (WORKSTATION\giova (55))* - Microsoft SQL Server Management Stu... Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
  🖁 😊 + 🔘 🏗 + 🖫 + 🔛 💾 🚅 | 🗿 New Query 🚇 🔬 😭 🛣 🛣 🛣 🛣 🛣 🔭 🗂 🗂 " 🤊 + 🤍 - - | 🐼 | - - - | 🎉
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   🕴 👸 CES
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  Object Explorer
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▼ 

■ WORKSTATION\SQLEXPRESS (SQL Server)

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                                       System Databases
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'2002', ''),
                                         > 🗐 Database Diagrams

▼ iii Tables

                                                      > System Tables
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> Graph Tables
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                                                              iii dbo.parser
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    wrk.ceAllData

                                                               wrk.ceDataType
                                                                                                                                                                                                         □UPDATE parser
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                                                                                                                                                                                                            SET indus = TRIM(REPLACE(REPLACE(indus, 's', ''), 'span
                                                               wrk.ceSeasonal
                                                                                                                                                                                                                 G0
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                                                              Ⅲ wrk.ceSupersector
                                                                                                                                                                                                         □UPDATE parser
                                                 Views
                                                                                                                                                                                                                 SET indus = TRIM(REPLACE(indus, 's', ''))
                                                 External Resources
                                         > Synonyms
> Programmability
                                                                                                                                                                                                                 GO
                                                 Service Broker
                                                                                                                                                                                                         □UPDATE parser
                                         > Storage
                                                                                                                                                                                                                 SET indus = REPLACE(indus, 's total private', 'total private')
                                      SQL TUTORIAL
                                                                                                                                                                                                            WHERE indus = 's total private'
                                         Security
                                                                                                                                                                                                                 G0
                           Server Objects
                          Replication
                                                                                                                                                                                                         ⊡UPDATE parser
                                      PolyBase
                               - Management
                                                                                                                                                                                                                SET indus = REPLACE(indus, 's total nonfarm', 'total nonfarm')
                            XEvent Profiler
                                                                                                                                                                                                                WHERE indus = 's total nonfarm'
                                                                                                                                                                                  133 %
                                                                                                                                                                                      Messages
                                                                                                                                                                                      ▲ Query completed with erro... | WORKSTATION\SQLEXPRESS (15.... | WORKSTATION\giova (55) | CES | 00:00:00 | 0 rows
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HW3.sql - WORKSTATION\SQLEXPRESS.CES (WORKSTATION\giova (55))* - Microsoft SQL Server Management Stu... Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           - | 🗊 🔑 🏝 🗒
  ③ G → ◎ | 🍪 → 🖫 → 😩 💾 🚅 | 🗿 New Query 👂 😭 😭 🛣 🛣 🛣 🛣 🛣 🗂 🗂 | 🦅 → 🤍 → | 🐼 | → | 🎏 |
                                                                                                                     - | ▶ Execute ■ ✔ # 🗊 🗐 🗐 # # # 🗊 🗐 🗐 🗃 🕒 😉 💤 ಶ 🛫
      SQL Shades =
  Object Explorer
                                                                                                                    ▼ 🖟 🗙 HW3.sql - WORKSTA...ATION\giova (55))* 🖈 × SQLQuery2.sql - W...TATION\giova (54))
   Connect ▼ ¥ ¥ ■ ▼ 🖒 🦇
                                                                                                                                                                             GO.
     Databases
                                                                                                                                                                       ⊡UPDATE parser
                                System Databases
                                                                                                                                                                              SET indus = REPLACE(indus, 's total nonfarm', 'total nonfarm')
                                Database Snapshots
                                                                                                                                                                             WHERE indus = 's total nonfarm'
                               CES
                                  > atabase Diagrams
                                    🗸 🔳 Tables
                                             > 🗐 System Tables
                                                                                                                                                                       ⊡UPDATE parser
                                                    FileTables
                                                                                                                                                                              SET indus = REPLACE(indus, 's total private', 'total private')
                                             > External Tables
> Graph Tables
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    dbo.ceDatatype
    dbo.
                                                                                                                                                                       □UPDATE parser

    dbo.ceIndustry

                                                                                                                                                                             SET indus = REPLACE(indus, 'change total nonfarm', 'total nonf
                                                     ■ dbo.cePeriod
                                                    ## dbo.ceSeasonal
                                                                                                                                                                             WHERE indus = 'change total nonfarm'

    ■ dbo.ceSeries

                                                     ## dbo.ceSupersector
                                                    Ⅲ dbo.parser

■ SELECT indus

    wrk.ceAllData

                                                     wrk.cedatagoog
                                                                                                                                                                         FROM parser
                                                     wrk.ceDataType
                                                                                                                                                                             GO
                                                    wrk.celndustry
                                                                                                                                                                       □--Done --

    wrk.cePeriod
    wrk.cePeriod

                                                     wrk.ceSeasonal
                                                    mrk.ceseries
                                                    Ⅲ wrk.ceSupersector
                                                                                                                                                                              -- Start of D, Not Seasonally Adjusted <- Seasonal / Not Season
                                          External Resources
                                                    Synonyms
                                          Programmability
                                                                                                                                                                               --reversing, and substringing was working. Update reverse and tr
                                          Service Broker
                                                                                                                                                                      ⊡UPDATE parser
                                         Security
                                                                                                                                                                             SET series_title= REVERSE(series_title)
                                SQL TUTORIAL
                                                                                                                                                                                                                                                                            column series_title(varchar, null)
                                                                                                                                                                       ■ SELECT REVERSE((SUBSIKING(series_title, 1, 19))) AS Seasonality_
                                  Server Objects
                                                                                                                                                                            FROM parser
                         Replication
                                  Management
                                                                                                                                                   --create seasonality column
                                  XEvent Profiler

    Messages

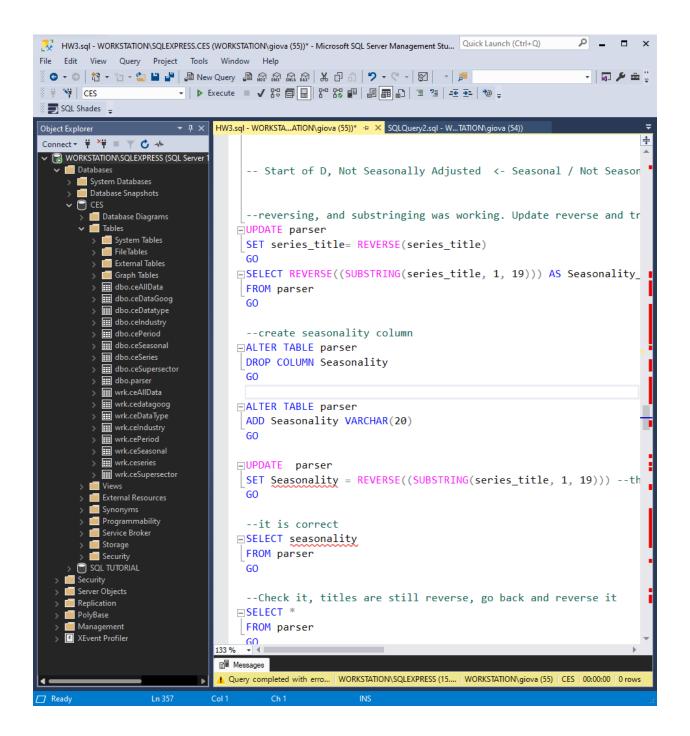
                                                                                                                                                       ⚠ Query completed with erro... | WORKSTATION\SQLEXPRESS (15.... | WORKSTATION\giova (55) | CES | 00:00:00 | 0 rows
```

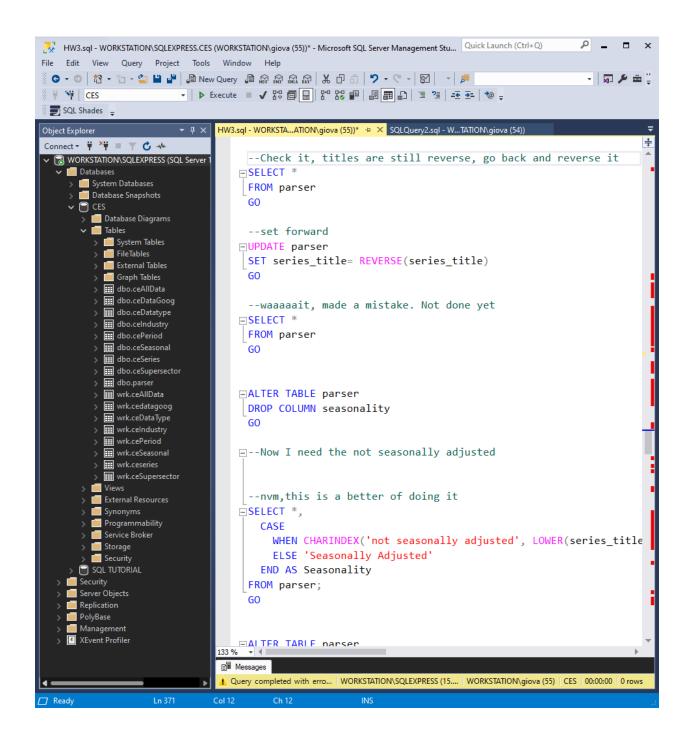
-- Start of D, Not Seasonally Adjusted <Seasonal / Not Seasonal---</pre>

--reversing, and substringing was working. Update reverse and try again $\ensuremath{\mathsf{UPDATE}}$ parser

```
SET series_title= REVERSE(series_title)
SELECT REVERSE((SUBSTRING(series title, 1, 19))) AS Seasonality forward
FROM parser
GO
--create seasonality column
ALTER TABLE parser
DROP COLUMN Seasonality
GO
ALTER TABLE parser
ADD Seasonality VARCHAR(20)
UPDATE parser
SET Seasonality = REVERSE((SUBSTRING(series_title, 1, 19))) --this is seasonality forward
--it is correct
SELECT seasonality
FROM parser
GO
--Check it, titles are still reverse, go back and reverse it
SELECT *
FROM parser
G0
--set forward
UPDATE parser
SET series_title= REVERSE(series_title)
--waaaaait, made a mistake. Not done yet
SELECT *
FROM parser
GO
ALTER TABLE parser
DROP COLUMN seasonality
GO
--Now I need the not seasonally adjusted
--nvm, this is a better of doing it
SELECT *,
  CASE
    WHEN CHARINDEX('not seasonally adjusted', LOWER(series_title)) > 0 THEN 'Not
Seasonally Adjusted'
   ELSE 'Seasonally Adjusted'
  END AS Seasonality
FROM parser;
G0
```

```
ALTER TABLE parser
ADD seasonality VARCHAR(50)
G0
UPDATE parser
SET Seasonality = CASE
   WHEN CHARINDEX('not seasonally adjusted', LOWER(series_title)) > 0 THEN 'Not
Seasonally Adjusted'
   ELSE 'Seasonally Adjusted'
 END;
 G0
 SELECT *
 FROM parser
 G0
 --D Not Seasonally Adjusted <- Seasonal / Not Seasonal, END of D
 SELECT series_ID, seasonality
 from parser
    --DONE-
```





```
🔛 HW3.sql - WORKSTATION\SQLEXPRESS.CES (WORKSTATION\giova (55))* - Microsoft SQL Server Management Stu... Quick Launch (Ctrl+Q)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ₽ - □ ×
File Edit View Query Project Tools Window Help
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                - | 🗊 🔑 🏯 🗒
 🖁 😊 + 🔘 🏗 + 🖫 + 🔛 💾 🚅 | 🗿 New Query 🚇 🔬 😭 🛣 🛣 🛣 🛣 🛣 🔭 🗂 🗂 " 🤊 + 🤍 - - | 🐼 | - - - | 🎉
                                                                                                                          - | ▶ Execute ■ ✔ 방 🗊 🗐 🔡 방 🗊 🗐 📰 🗈 🧏 🤏 🛂 💆
   🕴 😽 CES
      SQL Shades =
                                                                                                                          ▼ ‡ × HW3.sql - WORKSTA...ATION\giova (55))* → × SQLQuery2.sql - W...TATION\giova (54))
 Object Explorer
   Connect ▼ * ♥ ■ ▼ ♂ →

▼ 
¬ WORKSTATION\SQLEXPRESS (SQL Server)

                                                                                                                                                                             ■ALTER TABLE parser
                      Databases
                                                                                                                                                                                     ADD seasonality VARCHAR(50)
                                  System Databases
                                  Database Snapshots
                         CES
                                                                                                                                                                              □UPDATE parser
                                   > 🗐 Database Diagrams

▼ iii Tables

                                                                                                                                                                                       SET Seasonality = CASE
                                               > System Tables
                                                                                                                                                                                                           WHEN CHARINDEX('not seasonally adjusted', LOWER(series_title
                                                      FileTables
                                                                                                                                                                                                          ELSE 'Seasonally Adjusted'
                                               > External Tables
> Graph Tables
                                                                                                                                                                                                 END;

    dbo.ceAllData

                                                                                                                                                                                                 G0

    dbo.ceDataGoog
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    ■ dbo.ceDatatype

■ SELECT *

    dbo.ceIndustry

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                                                                                                                                                                                                 FROM parser
                                                       dbo.ceSeasonal

    ■ dbo.ceSeries

    ■ dbo.ceSupersector

                                                                                                                                                                                                 --D Not Seasonally Adjusted <- Seasonal / Not Seasonal, END c
                                                       Ⅲ dbo.parser

□ SELECT series_ID, seasonality

    wrk.ceAllData

                                                        wrk.cedatagoog
                                                                                                                                                                                                from parser
                                                       wrk.ceDataType
                                                       wrk.celndustry
                                                                                                                                                                             -- DONE --

    wrk.cePeriod
    wrk.cePeriod

                                                        wrk.ceSeasonal
                                                       mrk.ceseries
                                                                                                                                                                                                 --Start of E--
                                                      wrk.ceSupersector
                                           Views
                                                                                                                                                                             SELECT average_weekly_earnings,datatype2,indus, seasonality
                                           External Resources
                                                                                                                                                                                                 FROM parser
                                           Synonyms
                                           Programmability
                                            Service Broker
                                                                                                                                                                                                 -- Add new columns
                                          Storage
Security
                                                                                                                                                                              ALTER TABLE wrk.ceseries
                                  SQL TUTORIAL
                                                                                                                                                                                     DROP COLUMN average_weekly_earnings_new;
                                   Security
                                  Server Objects
                                                                                                                                                                              ALTER TABLE wrk.ceseries
                        Replication
                                                                                                                                                                                     DROP COLUMN datatype2_new;
                                   PolyBase
                                  Management
                                                                                                                                                          □AITFR TABLE wrk.ceseries
                        XEvent Profiler

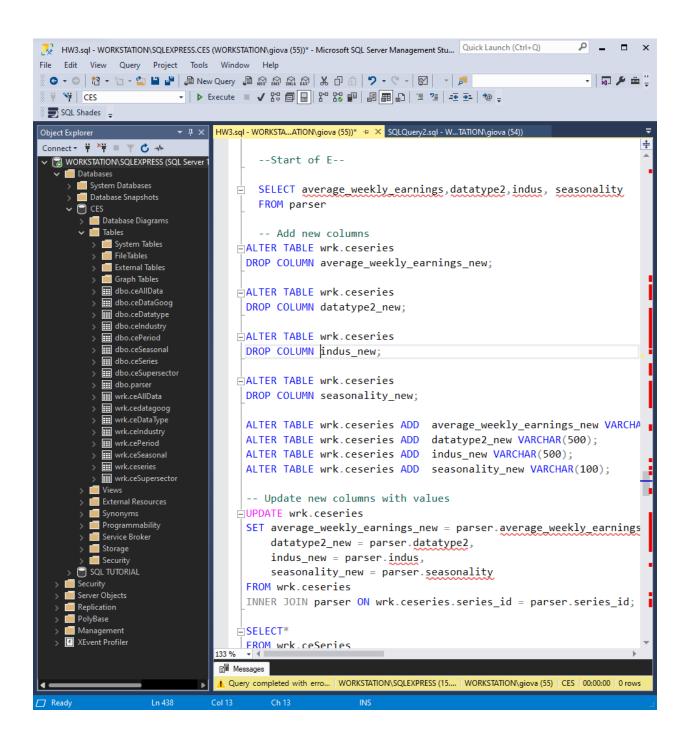
    Messages

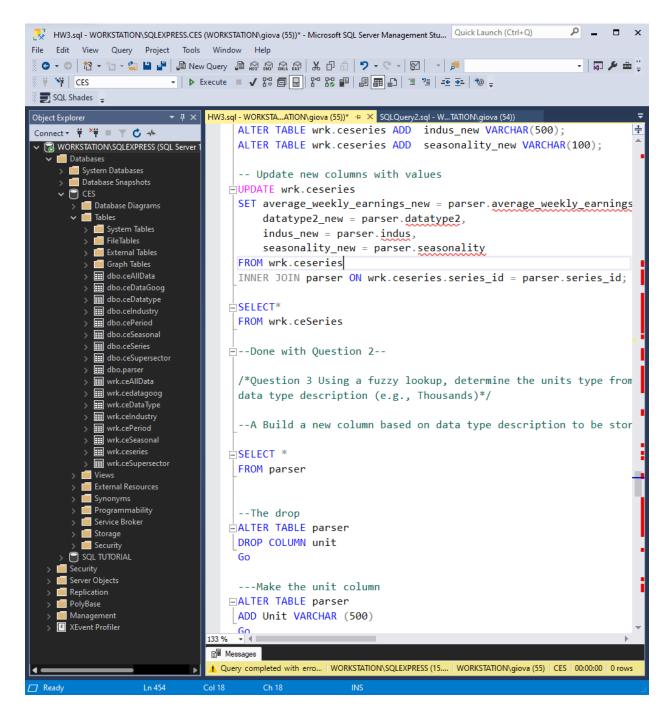
                                                                                                                                                              ▲ Query completed with erro... | WORKSTATION\SQLEXPRESS (15.... | WORKSTATION\giova (55) | CES | 00:00:00 | 0 rows
```

--Start of E--

```
SELECT average weekly earnings, datatype2, indus, seasonality
  FROM parser
  -- Add new columns
ALTER TABLE wrk.ceseries
DROP COLUMN average weekly earnings new;
ALTER TABLE wrk.ceseries
DROP COLUMN datatype2_new;
ALTER TABLE wrk.ceseries
DROP COLUMN indus new;
ALTER TABLE wrk.ceseries
DROP COLUMN seasonality_new;
ALTER TABLE wrk.ceseries ADD average_weekly_earnings_new VARCHAR(100);
ALTER TABLE wrk.ceseries ADD datatype2_new VARCHAR(500);
ALTER TABLE wrk.ceseries ADD indus_new VARCHAR(500);
ALTER TABLE wrk.ceseries ADD seasonality_new VARCHAR(100);
-- Update new columns with values
UPDATE wrk.ceseries
SET average_weekly_earnings_new = parser.average_weekly_earnings,
    datatype2 new = parser.datatype2,
    indus_new = parser.indus,
    seasonality_new = parser.seasonality
FROM wrk.ceseries
INNER JOIN parser ON wrk.ceseries.series_id = parser.series_id;
SELECT*
FROM wrk.ceSeries
```

--Done with Question 2—





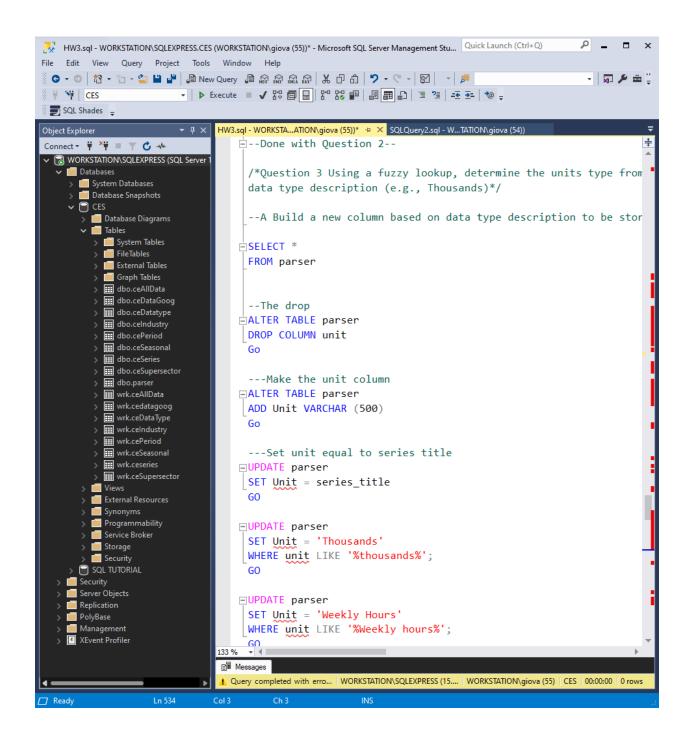
- /*Question 3 Using a fuzzy lookup,
 determine the units type from the
 data type description (e.g., Thousands)*/
- --A Build a new column based on data type description to be stored in their true units

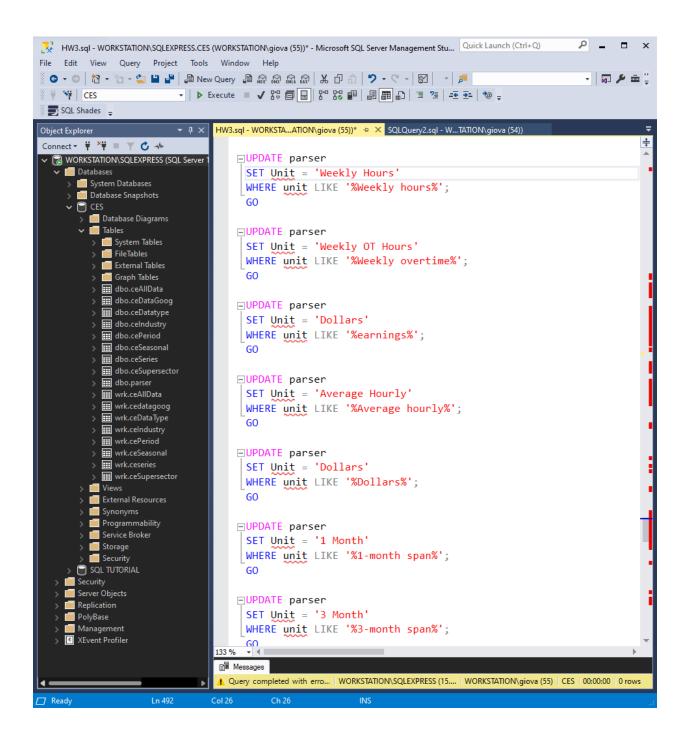
```
SELECT *
FROM parser
--The drop
ALTER TABLE parser
DROP COLUMN unit
Go
---Make the unit column
ALTER TABLE parser
ADD Unit VARCHAR (500)
---Set unit equal to series title
UPDATE parser
SET Unit = series_title
UPDATE parser
SET Unit = 'Thousands'
WHERE unit LIKE '%thousands%';
UPDATE parser
SET Unit = 'Weekly Hours'
WHERE unit LIKE '%Weekly hours%';
G0
UPDATE parser
SET Unit = 'Weekly OT Hours'
WHERE unit LIKE '%Weekly overtime%';
UPDATE parser
SET Unit = 'Dollars'
WHERE unit LIKE '%earnings%';
GO
UPDATE parser
SET Unit = 'Average Hourly'
WHERE unit LIKE '%Average hourly%';
GO
UPDATE parser
SET Unit = 'Dollars'
WHERE unit LIKE '%Dollars%';
UPDATE parser
SET Unit = '1 Month'
WHERE unit LIKE '%1-month span%';
G0
UPDATE parser
SET Unit = '3 Month'
WHERE unit LIKE '%3-month span%';
G0
```

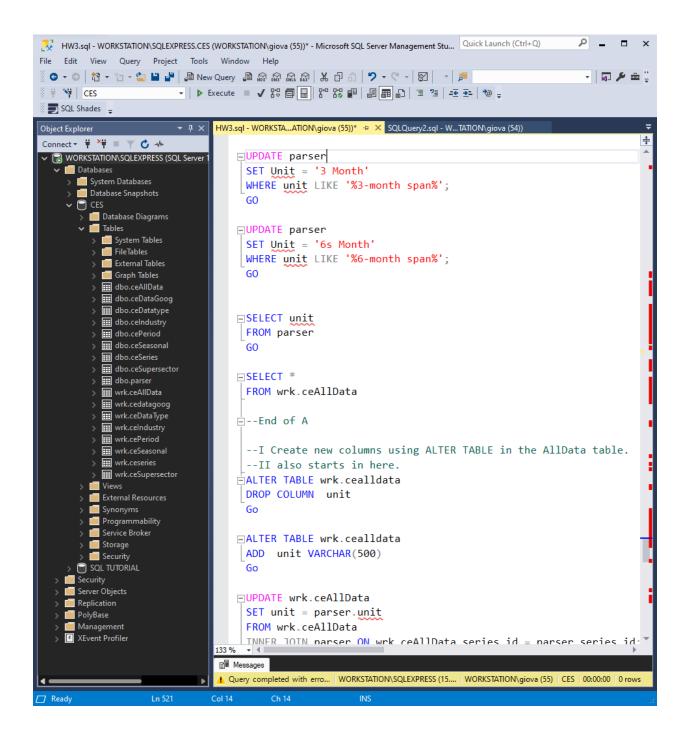
```
UPDATE parser
SET Unit = '6s Month'
WHERE unit LIKE '%6-month span%';
GO

SELECT unit
FROM parser
GO

SELECT *
FROM wrk.ceAllData
--End of A
```



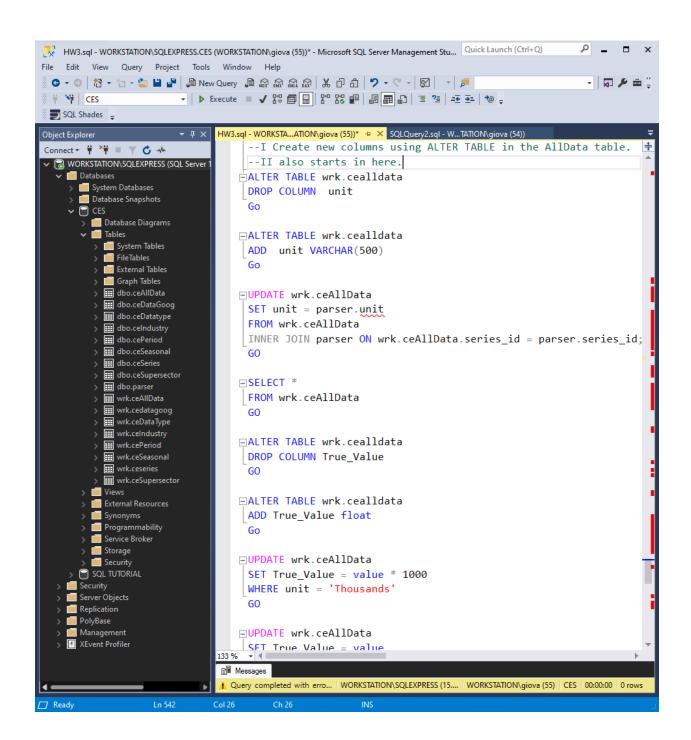


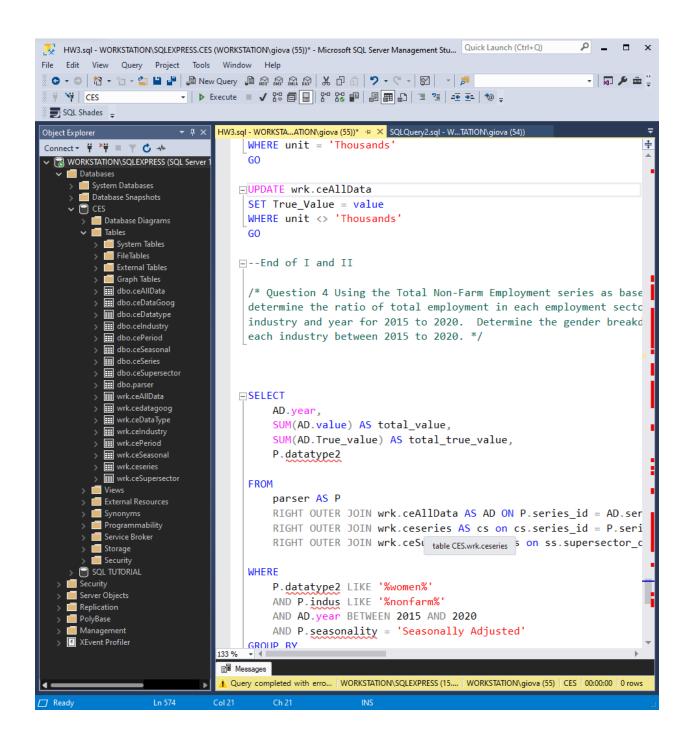


- --I Create new columns using ALTER TABLE in the AllData table.
- --II also starts in here.

ALTER TABLE wrk.cealldata DROP COLUMN unit

```
ALTER TABLE wrk.cealldata
ADD unit VARCHAR(500)
Go
UPDATE wrk.ceAllData
SET unit = parser.unit
FROM wrk.ceAllData
INNER JOIN parser ON wrk.ceAllData.series_id = parser.series_id;
SELECT *
FROM wrk.ceAllData
GO
ALTER TABLE wrk.cealldata
DROP COLUMN True_Value
G0
ALTER TABLE wrk.cealldata
ADD True_Value float
Go
UPDATE wrk.ceAllData
SET True_Value = value * 1000
WHERE unit = 'Thousands'
UPDATE wrk.ceAllData
SET True Value = value
WHERE unit <> 'Thousands'
--End of I and II
```



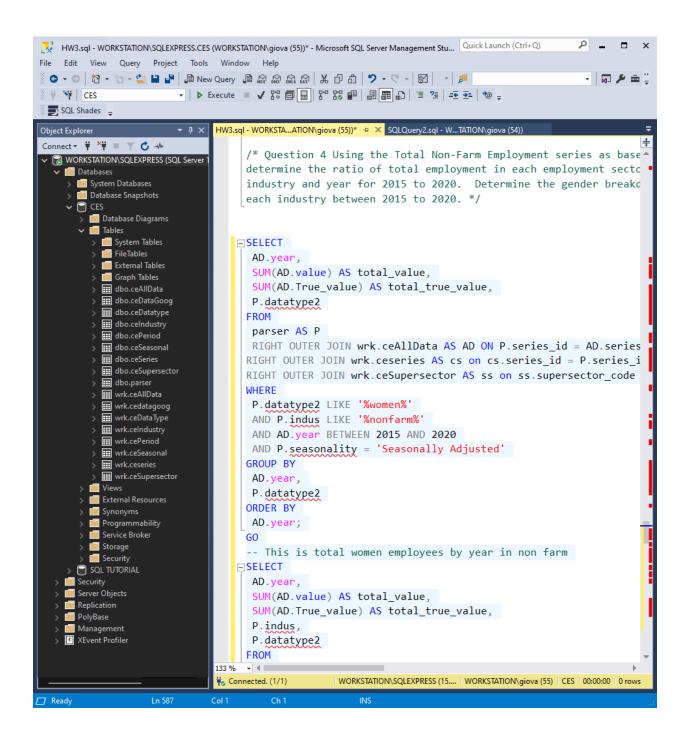


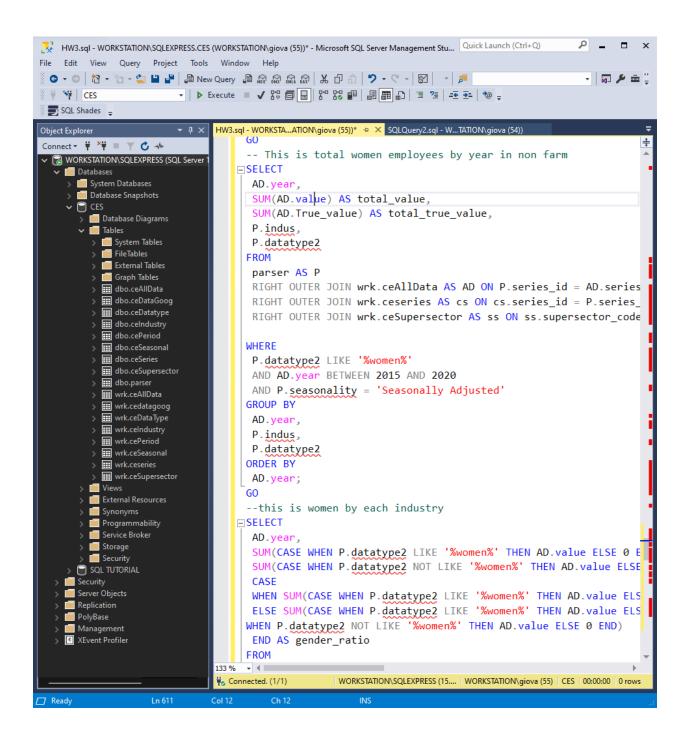
/* Question 4 Using the Total Non-Farm
Employment series as base,
determine the ratio of total employment in
each employment sector by

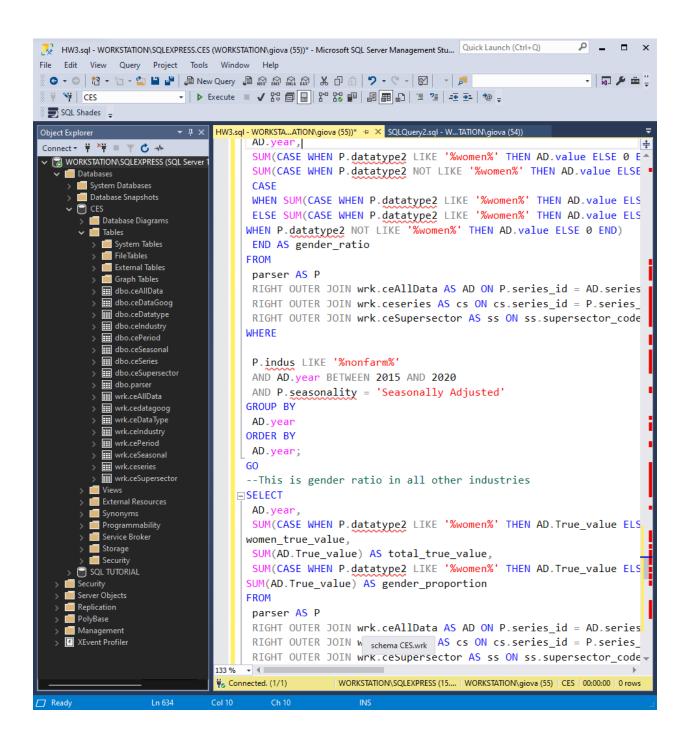
industry and year for 2015 to 2020. Determine the gender breakdown of each industry between 2015 to 2020. */

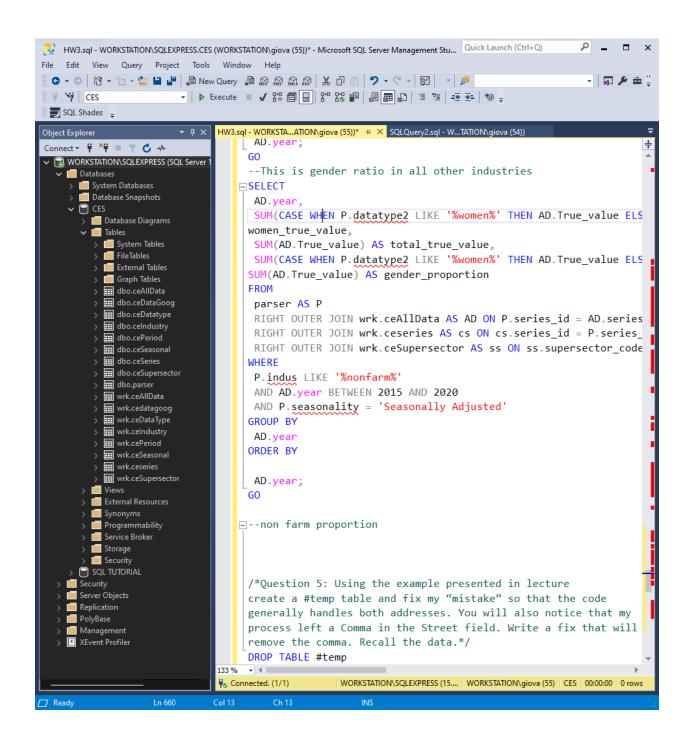
```
SELECT
AD. year,
SUM(AD.value) AS total_value,
SUM(AD.True_value) AS total_true_value,
P.datatype2
FROM
parser AS P
RIGHT OUTER JOIN wrk.ceAllData AS AD ON P.series_id = AD.series_id
RIGHT OUTER JOIN wrk.ceseries AS cs on cs.series_id = P.series_id
RIGHT OUTER JOIN wrk.ceSupersector AS ss on ss.supersector_code = cs.supersector_code
WHERE
P.datatype2 LIKE '%women%'
AND P.indus LIKE '%nonfarm%'
AND AD. year BETWEEN 2015 AND 2020
AND P.seasonality = 'Seasonally Adjusted'
GROUP BY
AD. year,
P.datatype2
ORDER BY
AD. year;
-- This is total women employees by year in non farm
AD. year,
SUM(AD. value) AS total value,
SUM(AD.True value) AS total true value,
P.indus,
P.datatype2
FROM
 parser AS P
RIGHT OUTER JOIN wrk.ceAllData AS AD ON P.series id = AD.series id
RIGHT OUTER JOIN wrk.ceseries AS cs ON cs.series_id = P.series_id
RIGHT OUTER JOIN wrk.ceSupersector AS ss ON ss.supersector_code = cs.supersector_code
WHERE
P.datatype2 LIKE '%women%'
AND AD. year BETWEEN 2015 AND 2020
AND P.seasonality = 'Seasonally Adjusted'
GROUP BY
AD.year,
P.indus,
P.datatype2
ORDER BY
AD. year;
--this is women by each industry
SELECT
AD. year,
SUM(CASE WHEN P.datatype2 LIKE '%women%' THEN AD.value ELSE 0 END) AS total_value_women,
SUM(CASE WHEN P.datatype2 NOT LIKE '%women%' THEN AD.value ELSE 0 END) AS
total_value_all,
```

```
CASE
WHEN SUM(CASE WHEN P.datatype2 LIKE '%women%' THEN AD.value ELSE 0 END) = 0 THEN 0
ELSE SUM(CASE WHEN P.datatype2 LIKE '%women%' THEN AD.value ELSE 0 END) / SUM(CASE
WHEN P.datatype2 NOT LIKE '%women%' THEN AD.value ELSE 0 END)
END AS gender_ratio
FROM
parser AS P
RIGHT OUTER JOIN wrk.ceAllData AS AD ON P.series id = AD.series id
RIGHT OUTER JOIN wrk.ceseries AS cs ON cs.series id = P.series id
RIGHT OUTER JOIN wrk.ceSupersector AS ss ON ss.supersector_code = cs.supersector_code
WHERE
P.indus LIKE '%nonfarm%'
AND AD. year BETWEEN 2015 AND 2020
AND P.seasonality = 'Seasonally Adjusted'
GROUP BY
AD. year
ORDER BY
AD. year;
--This is gender ratio in all other industries
SELECT
AD. year,
SUM(CASE WHEN P.datatype2 LIKE '%women%' THEN AD.True_value ELSE 0 END) AS
women true value,
SUM(AD.True value) AS total true value,
SUM(CASE WHEN P.datatype2 LIKE '%women%' THEN AD.True value ELSE 0 END) /
SUM(AD.True_value) AS gender_proportion
FROM
 parser AS P
 RIGHT OUTER JOIN wrk.ceAllData AS AD ON P.series id = AD.series id
RIGHT OUTER JOIN wrk.ceseries AS cs ON cs.series id = P.series id
RIGHT OUTER JOIN wrk.ceSupersector AS ss ON ss.supersector_code = cs.supersector_code
WHERE
P.indus LIKE '%nonfarm%'
AND AD. year BETWEEN 2015 AND 2020
AND P.seasonality = 'Seasonally Adjusted'
GROUP BY
AD. year
ORDER BY
AD. year;
G0
--non farm proportion
```





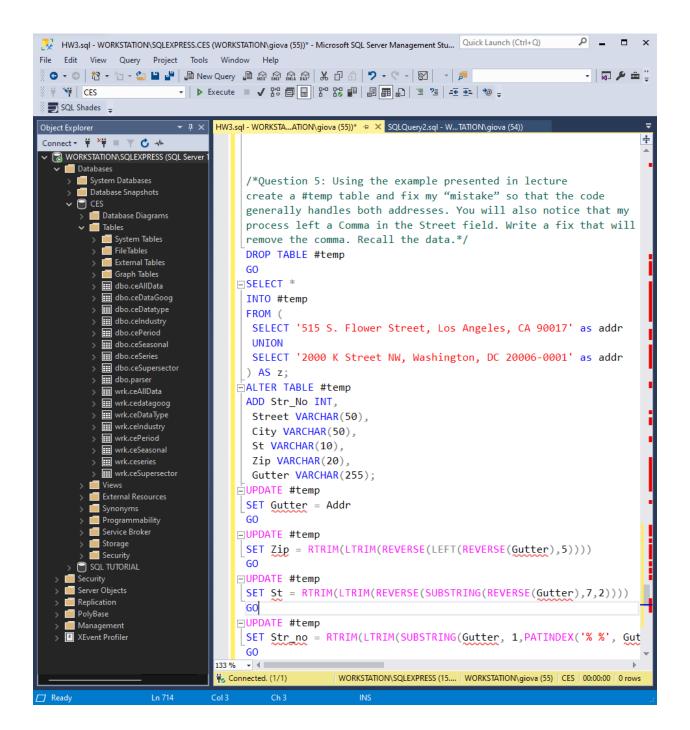


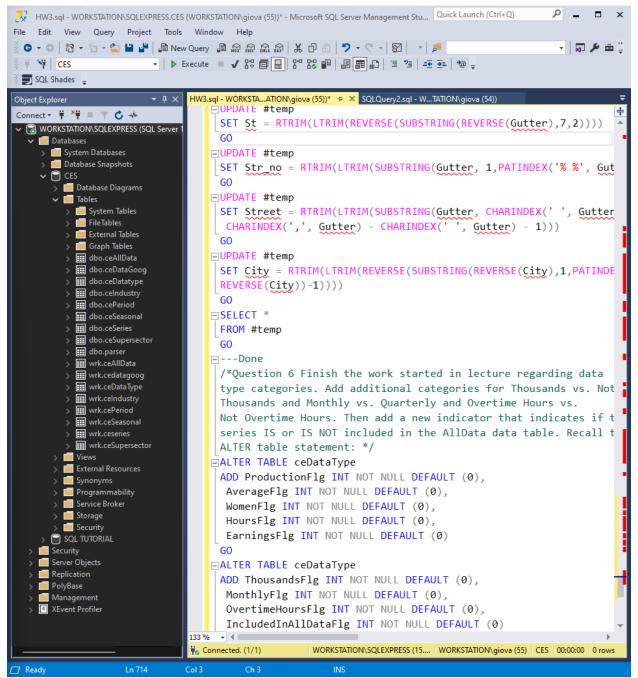


/*Question 5: Using the example presented
in lecture
create a #temp table and fix my "mistake"
so that the code

generally handles both addresses. You will also notice that my process left a Comma in the Street field. Write a fix that will remove the comma. Recall the data.*/

```
DROP TABLE #temp
GO.
SELECT *
INTO #temp
FROM (
SELECT '515 S. Flower Street, Los Angeles, CA 90017' as addr
SELECT '2000 K Street NW, Washington, DC 20006-0001' as addr
) AS z;
ALTER TABLE #temp
ADD Str_No INT,
Street VARCHAR(50),
City VARCHAR(50),
St VARCHAR(10),
Zip VARCHAR(20),
Gutter VARCHAR(255);
UPDATE #temp
SET Gutter = Addr
G0
UPDATE #temp
SET Zip = RTRIM(LTRIM(REVERSE(LEFT(REVERSE(Gutter),5))))
UPDATE #temp
SET St = RTRIM(LTRIM(REVERSE(SUBSTRING(REVERSE(Gutter),7,2))))
SET Str_no = RTRIM(LTRIM(SUBSTRING(Gutter, 1,PATINDEX('% %', Gutter))))
UPDATE #temp
SET Street = RTRIM(LTRIM(SUBSTRING(Gutter, CHARINDEX(' ', Gutter) + 1,
CHARINDEX(',', Gutter) - CHARINDEX(' ', Gutter) - 1)))
G0
UPDATE #temp
SET City = RTRIM(LTRIM(REVERSE(SUBSTRING(REVERSE(City),1,PATINDEX('%,%',
REVERSE(City))-1))))
G0
SELECT *
FROM #temp
G0
---Done
```





/*Question 6 Finish the work started in lecture regarding data type categories. Add additional categories for Thousands vs. Not Thousands and Monthly vs. Quarterly and Overtime Hours vs.

Not Overtime Hours. Then add a new indicator that indicates if the series IS or IS NOT included in the AllData data table. Recall the ALTER table statement: */

```
ALTER TABLE ceDataType

ADD ProductionFlg INT NOT NULL DEFAULT (0),

AverageFlg INT NOT NULL DEFAULT (0),

WomenFlg INT NOT NULL DEFAULT (0),

HoursFlg INT NOT NULL DEFAULT (0),

EarningsFlg INT NOT NULL DEFAULT (0)

GO

ALTER TABLE ceDataType

ADD ThousandsFlg INT NOT NULL DEFAULT (0),

MonthlyFlg INT NOT NULL DEFAULT (0),

OvertimeHoursFlg INT NOT NULL DEFAULT (0),

IncludedInAllDataFlg INT NOT NULL DEFAULT (0)

GO
```

