ARMDD
EXERCISE 3 TUTORIAL

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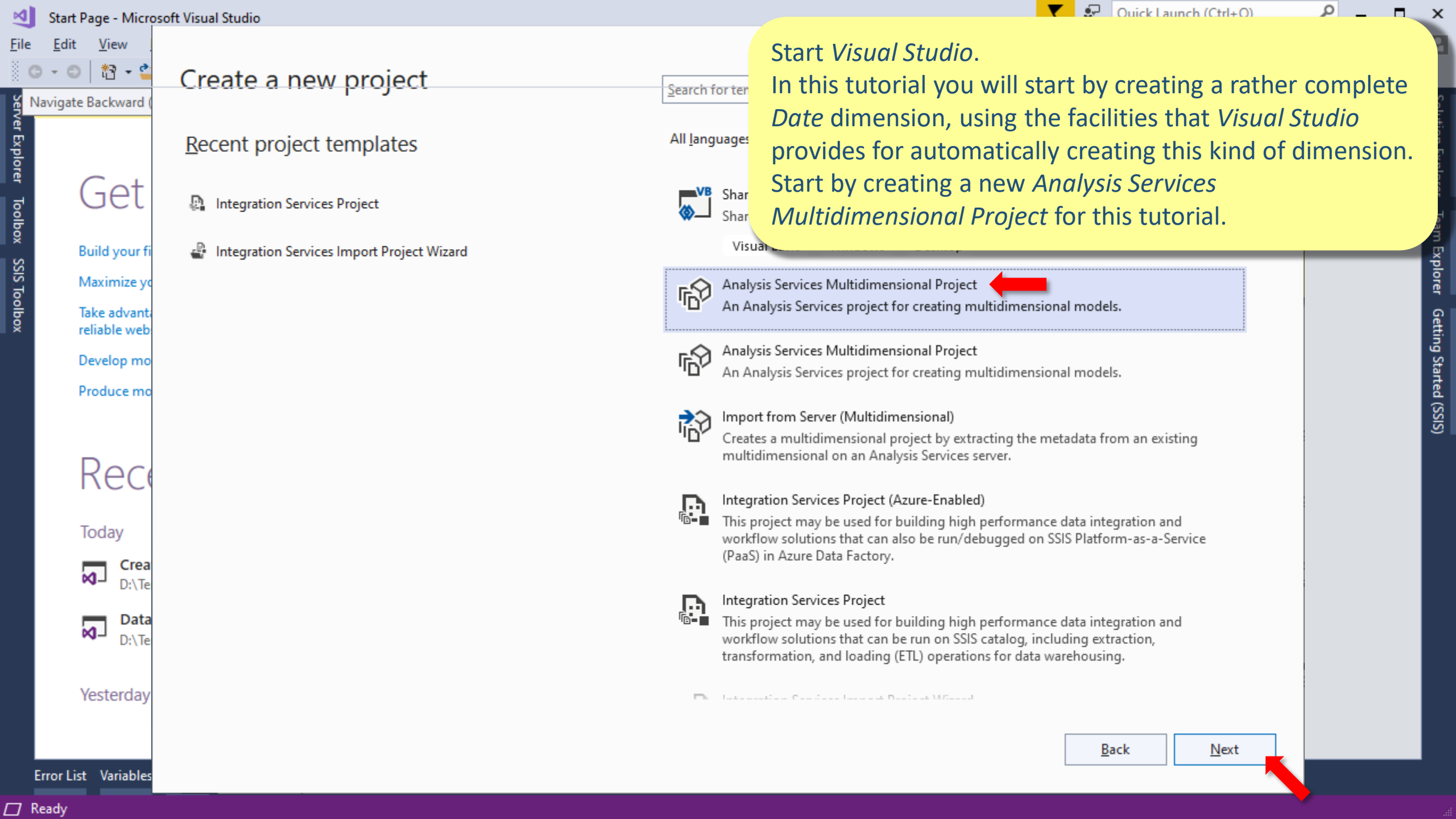
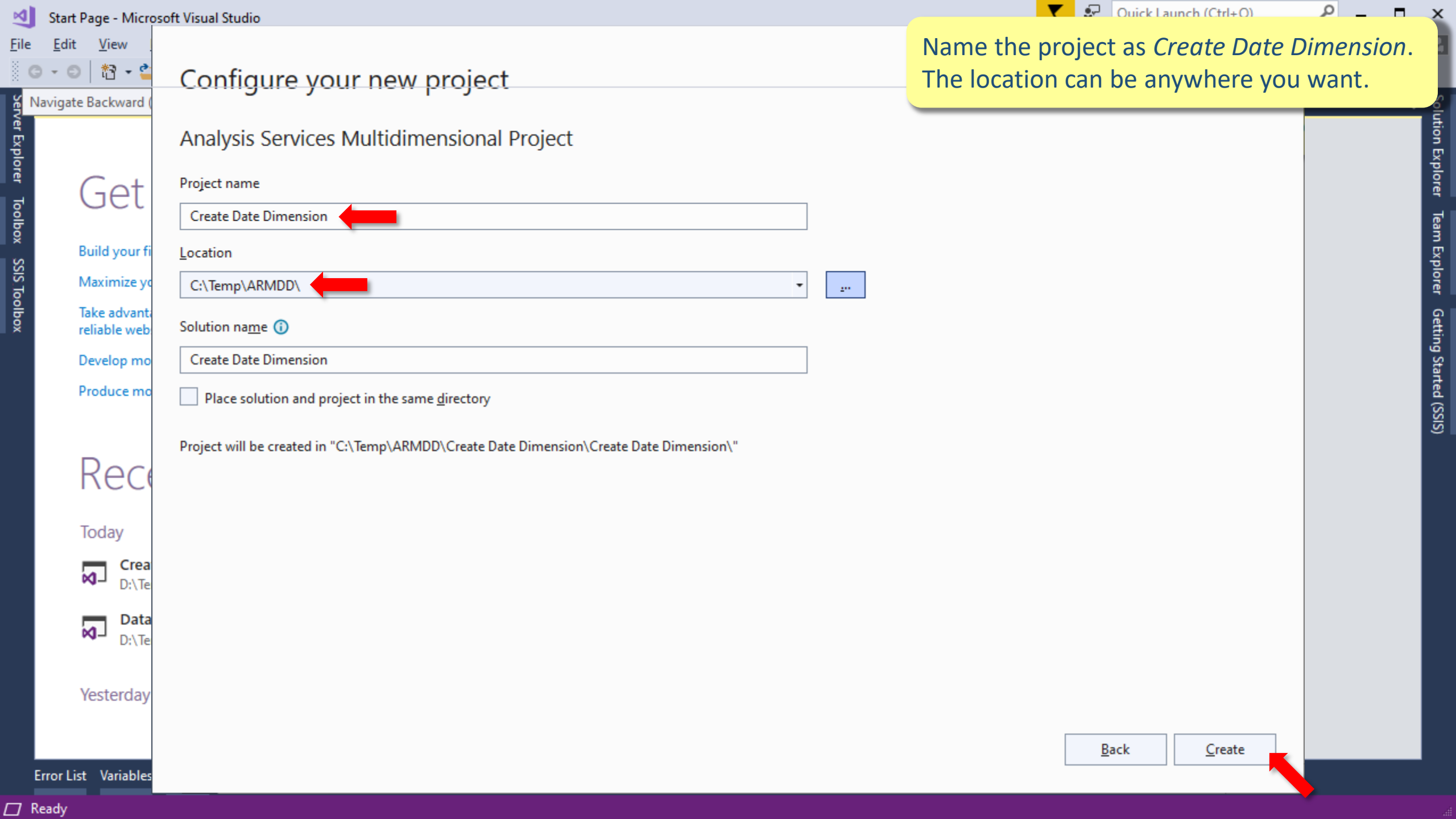
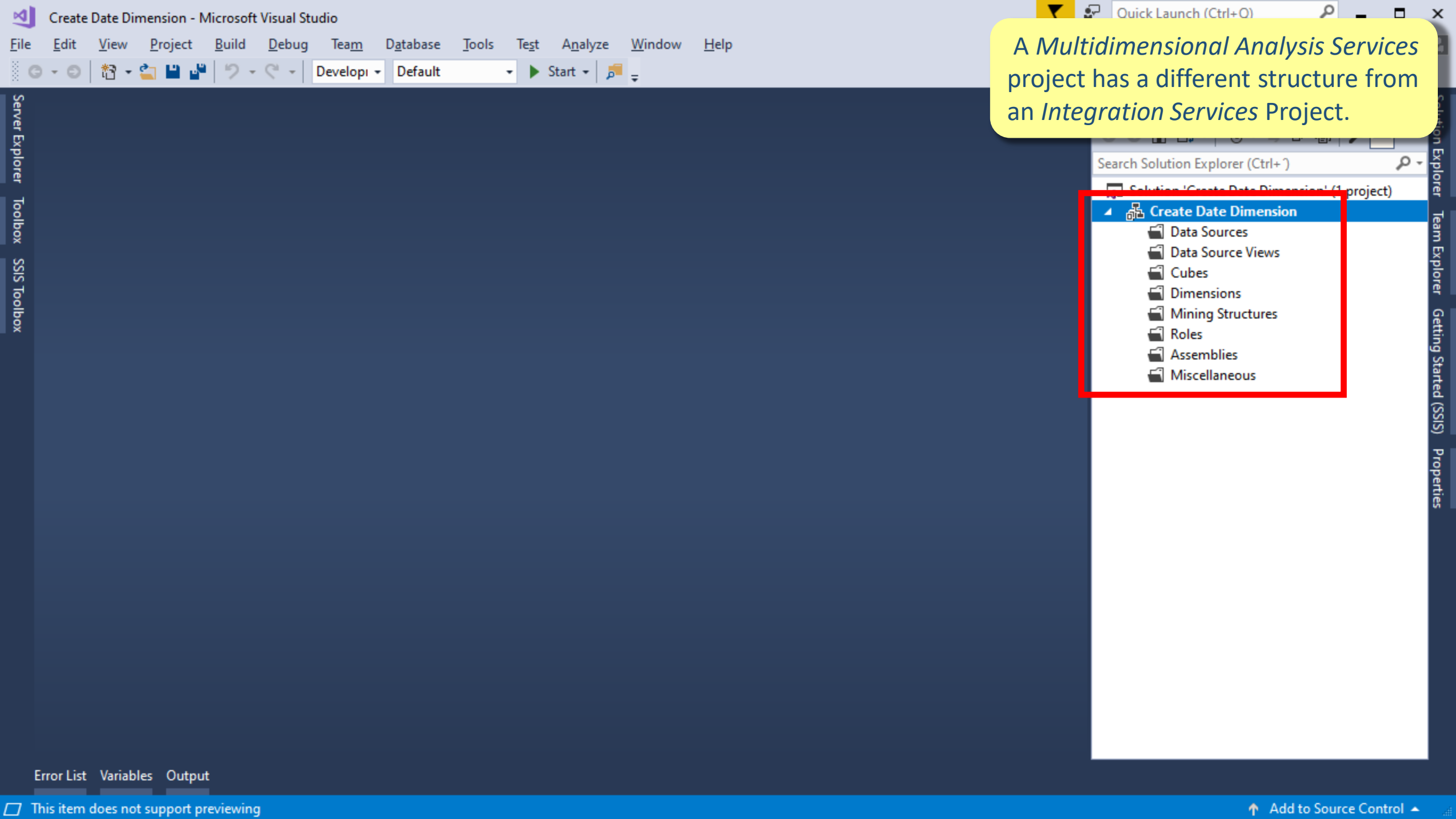
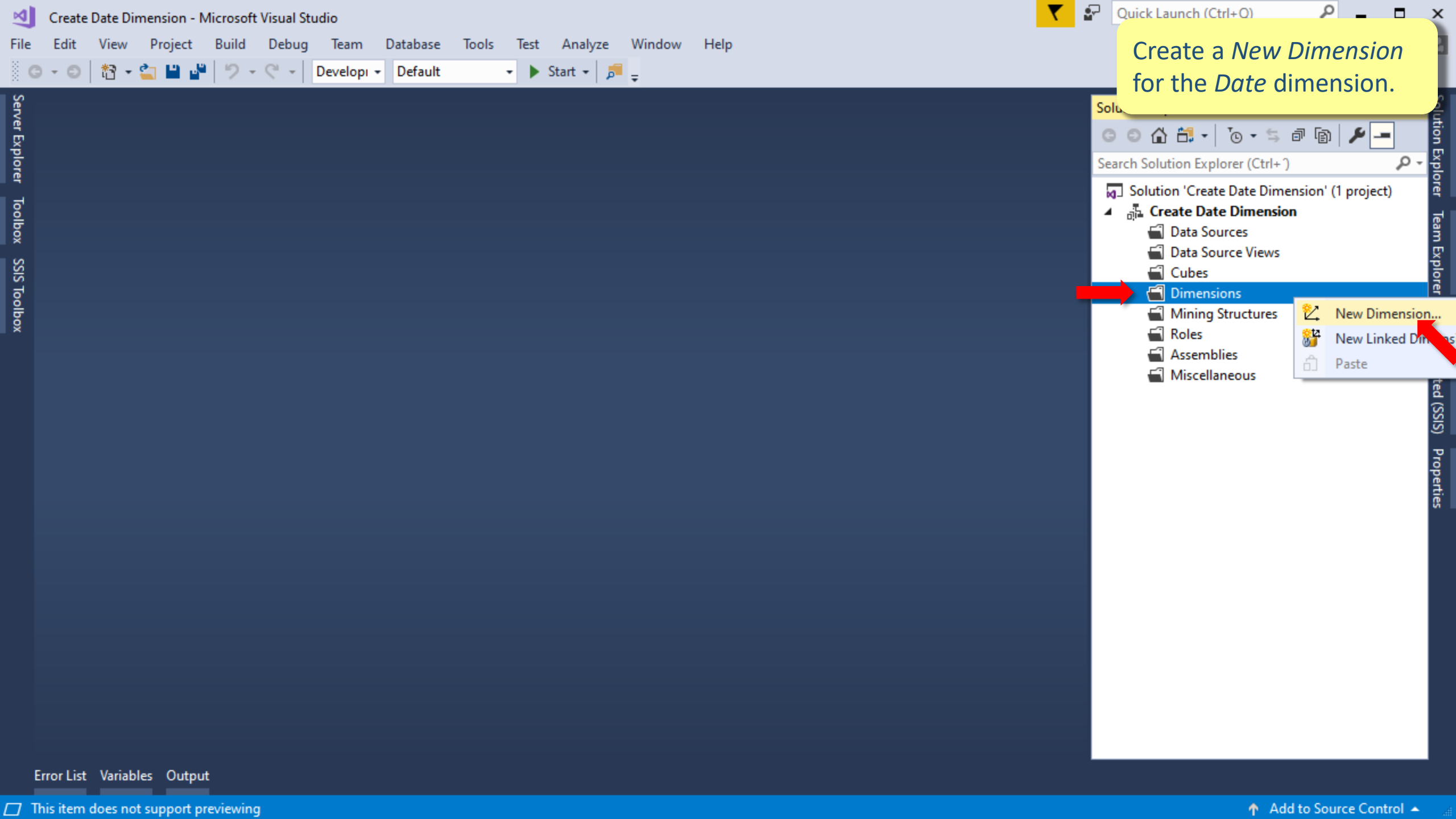
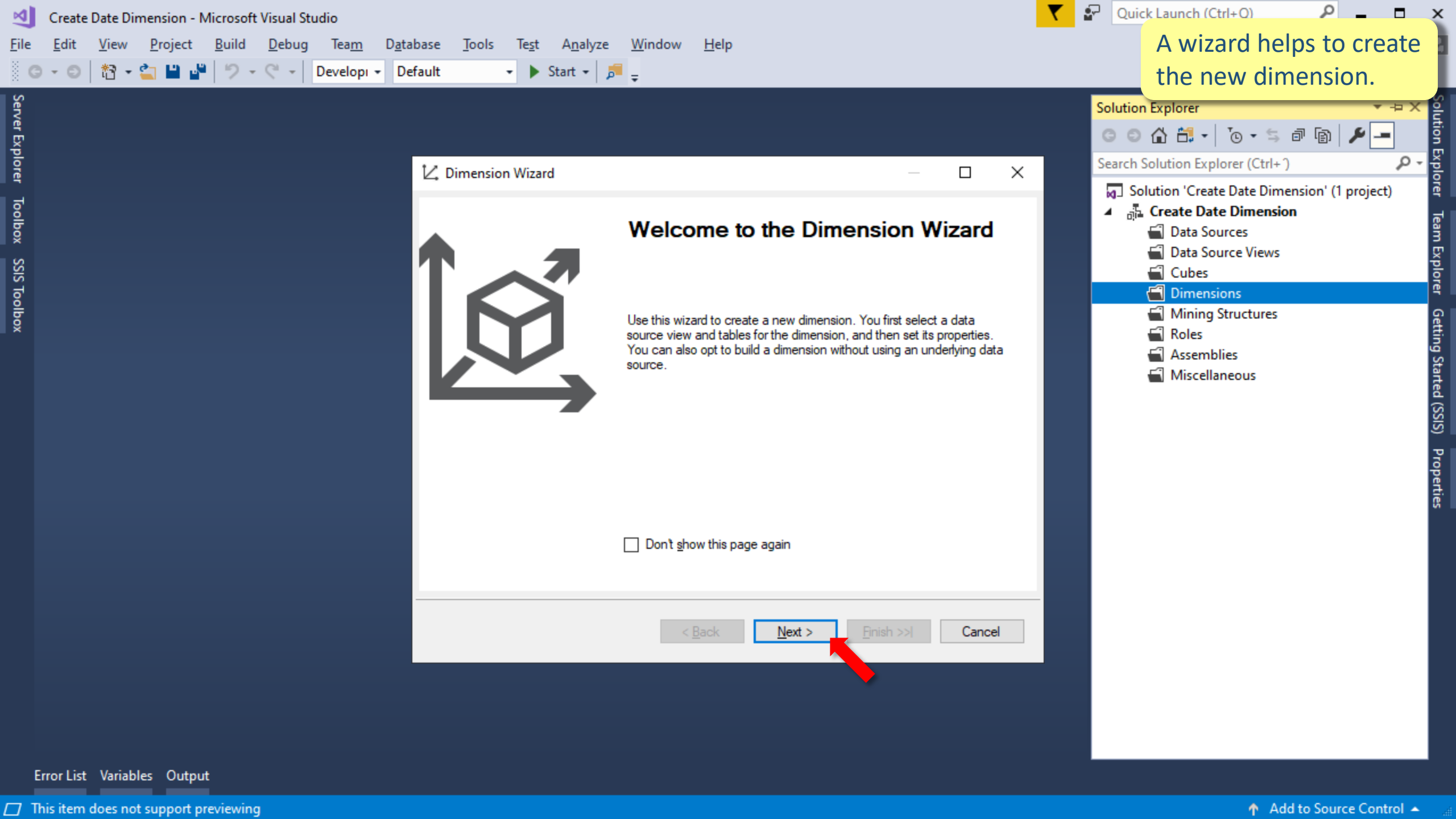
DEI-ISEP

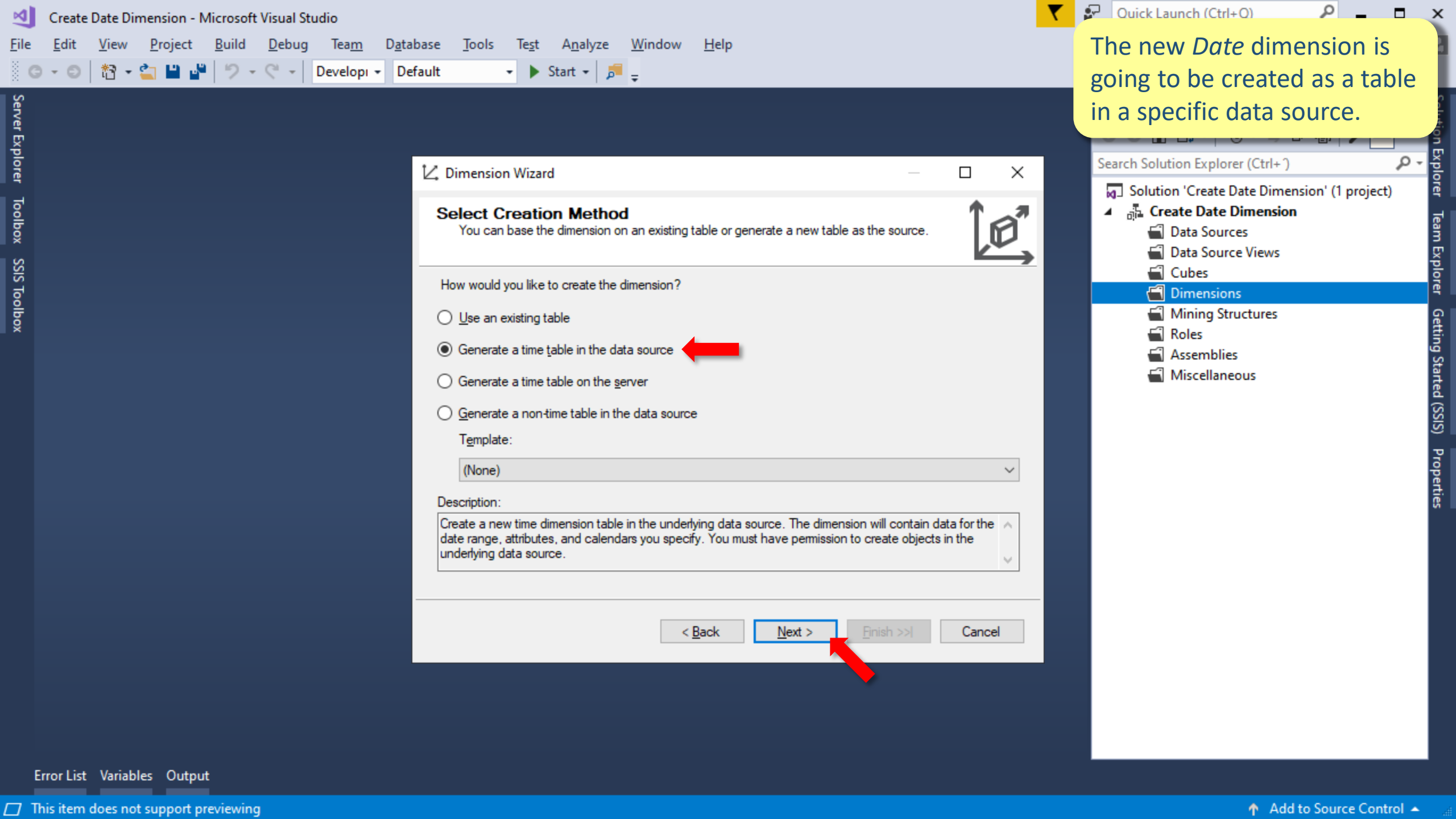

Start Page - Microsoft Visual Studio
File Edit View
Create a new project
Recent project templates
Integration Services Project
Integration Services Import Project Wizard
Analysis Services Multidimensional Project
An Analysis Services project for creating multidimensional models.
Analysis Services Multidimensional Project
An Analysis Services project for creating multidimensional models.
Import from Server (Multidimensional)
Creates a multidimensional project by extracting the metadata from an existing multidimensional on an Analysis Services server.
Integration Services Project (Azure-Enabled)
This project may be used for building high performance data integration and workflow solutions that can also be run/debugged on SSIS Platform-as-a-Service (PaaS) in Azure Data Factory.
Integration Services Project
This project may be used for building high performance data integration and workflow solutions that can be run on SSIS catalog, including extraction, transformation, and loading (ETL) operations for data warehousing.
Back
Next
Start Visual Studio.
In this tutorial you will start by creating a rather complete Date dimension, using the facilities that Visual Studio provides for automatically creating this kind of dimension.
Start by creating a new Analysis Services Multidimensional Project for this tutorial.
Ready


Start Page - Microsoft Visual Studio
File Edit View
Navigate Backward
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Quick Launch (Ctrl+Q)
Configure your new project
Analysis Services Multidimensional Project
Project name
Create Date Dimension
Location
C:\Temp\ARMDD\
...
Solution name
Create Date Dimension
Place solution and project in the same directory
Project will be created in "C:\Temp\ARMDD\Create Date Dimension\Create Date Dimension\"
Back
Create
Name the project as *Create Date Dimension*. The location can be anywhere you want.
Get
Build your fi
Maximize yo
Take advanta
reliable web
Develop mo
Produce mo
Rece
Today
Crea
D:\Te
Data
D:\Te
Yesterday
Error List
Variables
Ready


Create Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team Database Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Start
Server Explorer
Toolbox
SSIS Toolbox
A Multidimensional Analysis Services project has a different structure from an Integration Services Project.
Search Solution Explorer (Ctrl+;)
Create Date Dimension
Data Sources
Data Source Views
Cubes
Dimensions
Mining Structures
Roles
Assemblies
Miscellaneous
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties
Error List
Variables
Output
This item does not support previewing
Add to Source Control


Create Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team Database Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Start
Create a *New Dimension* for the *Date* dimension.
Server Explorer
Toolbox
SSIS Toolbox
Search Solution Explorer (Ctrl+;)
Solution 'Create Date Dimension' (1 project)
Create Date Dimension
Data Sources
Data Source Views
Cubes
Dimensions
Mining Structures
Roles
Assemblies
Miscellaneous
New Dimension...
New Linked Dimension...
Paste
Team Explorer
Properties
Error List
Variables
Output
This item does not support previewing
Add to Source Control


Create Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team Database Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
A wizard helps to create the new dimension.
Server Explorer
Toolbox
SSIS Toolbox
Dimension Wizard
Welcome to the Dimension Wizard
Use this wizard to create a new dimension. You first select a data source view and tables for the dimension, and then set its properties. You can also opt to build a dimension without using an underlying data source.
Don't show this page again
< Back
Next >
Finish >>|
Cancel
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'Create Date Dimension' (1 project)
Create Date Dimension
Data Sources
Data Source Views
Cubes
Dimensions
Mining Structures
Roles
Assemblies
Miscellaneous
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties
Error List
Variables
Output
This item does not support previewing
Add to Source Control


Create Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team Database Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
The new *Date* dimension is going to be created as a table in a specific data source.
Dimension Wizard
Select Creation Method
You can base the dimension on an existing table or generate a new table as the source.
How would you like to create the dimension?
Use an existing table
Generate a time table in the data source
Generate a time table on the server
Generate a non-time table in the data source
Template:
(None)
Description:
Create a new time dimension table in the underlying data source. The dimension will contain data for the date range, attributes, and calendars you specify. You must have permission to create objects in the underlying data source.
< Back
Next >
Finish >>|
Cancel
Search Solution Explorer (Ctrl+;)
Solution 'Create Date Dimension' (1 project)
Create Date Dimension
Data Sources
Data Source Views
Cubes
Dimensions
Mining Structures
Roles
Assemblies
Miscellaneous
Server Explorer
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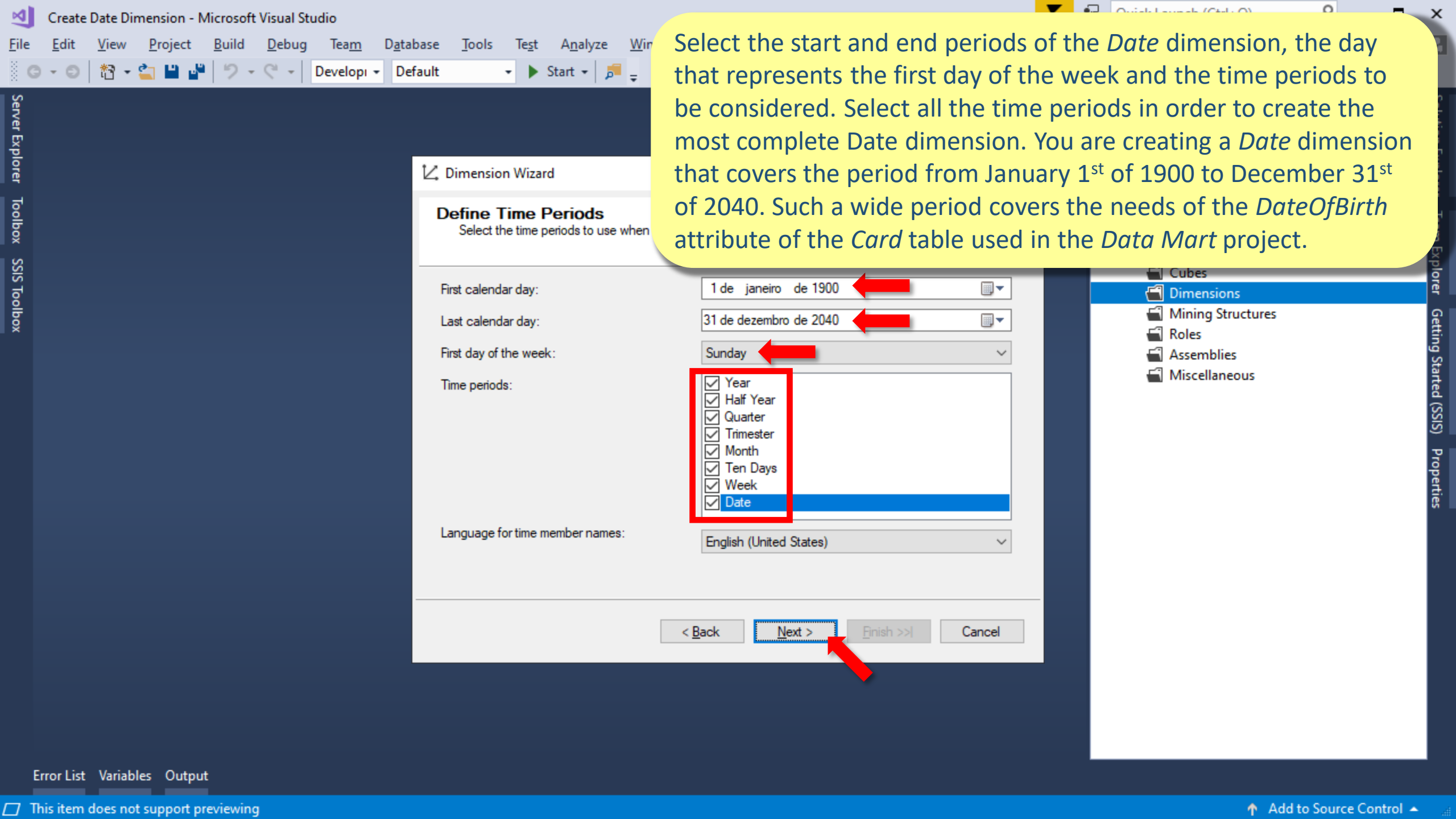
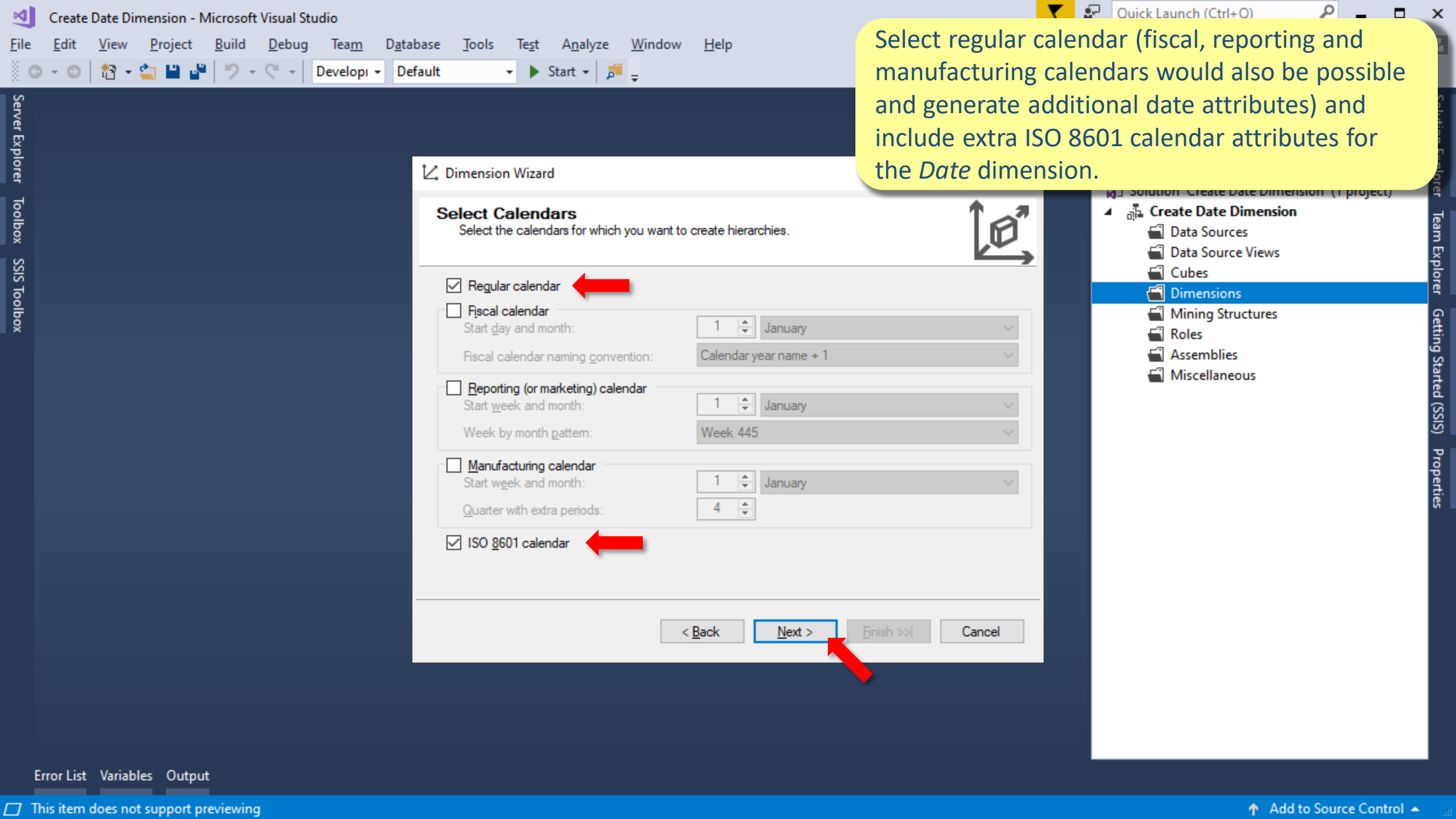
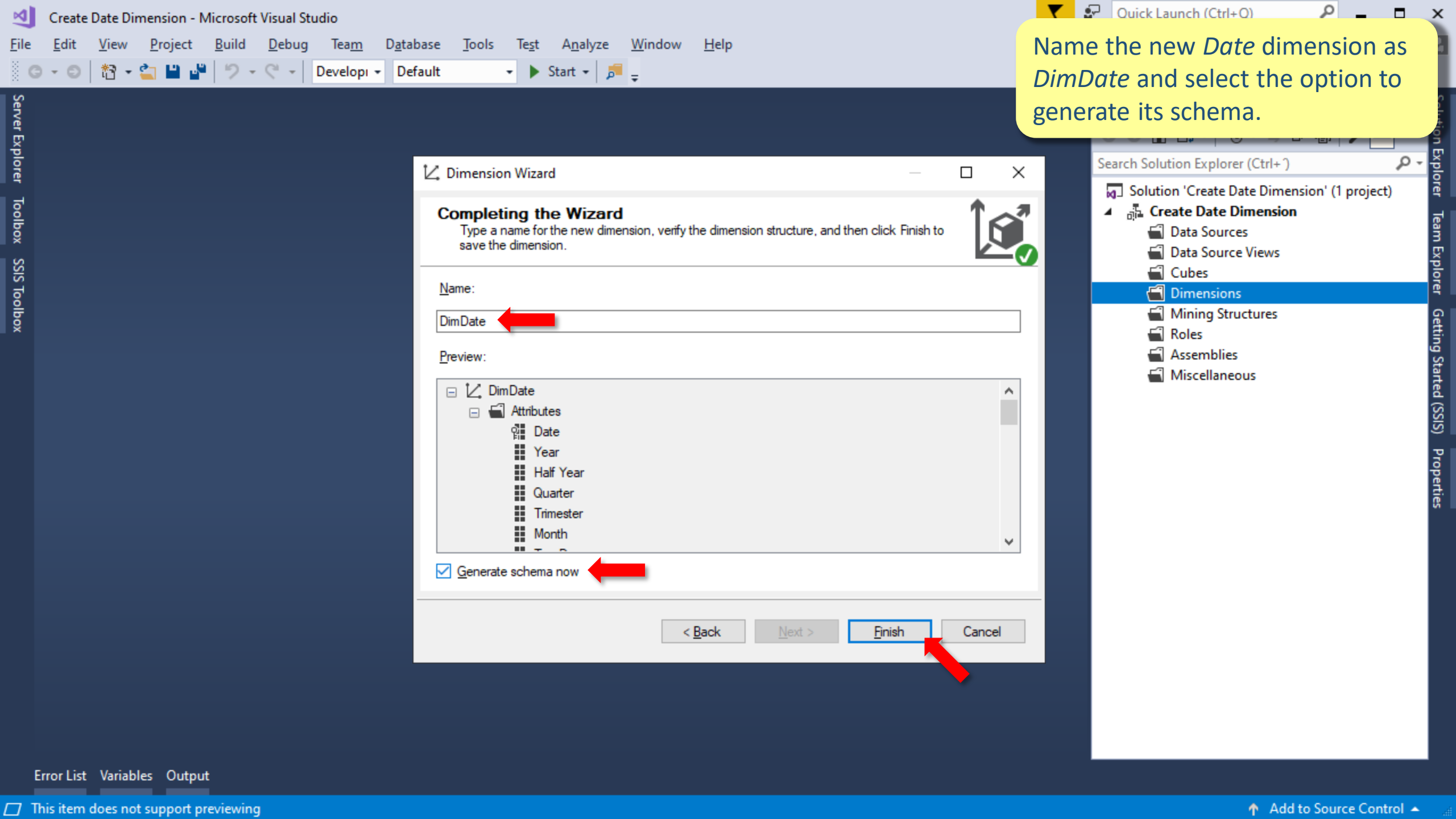
Getting Started (SSIS)
Properties
Error List
Variables
Output
This item does not support previewing
Add to Source Control



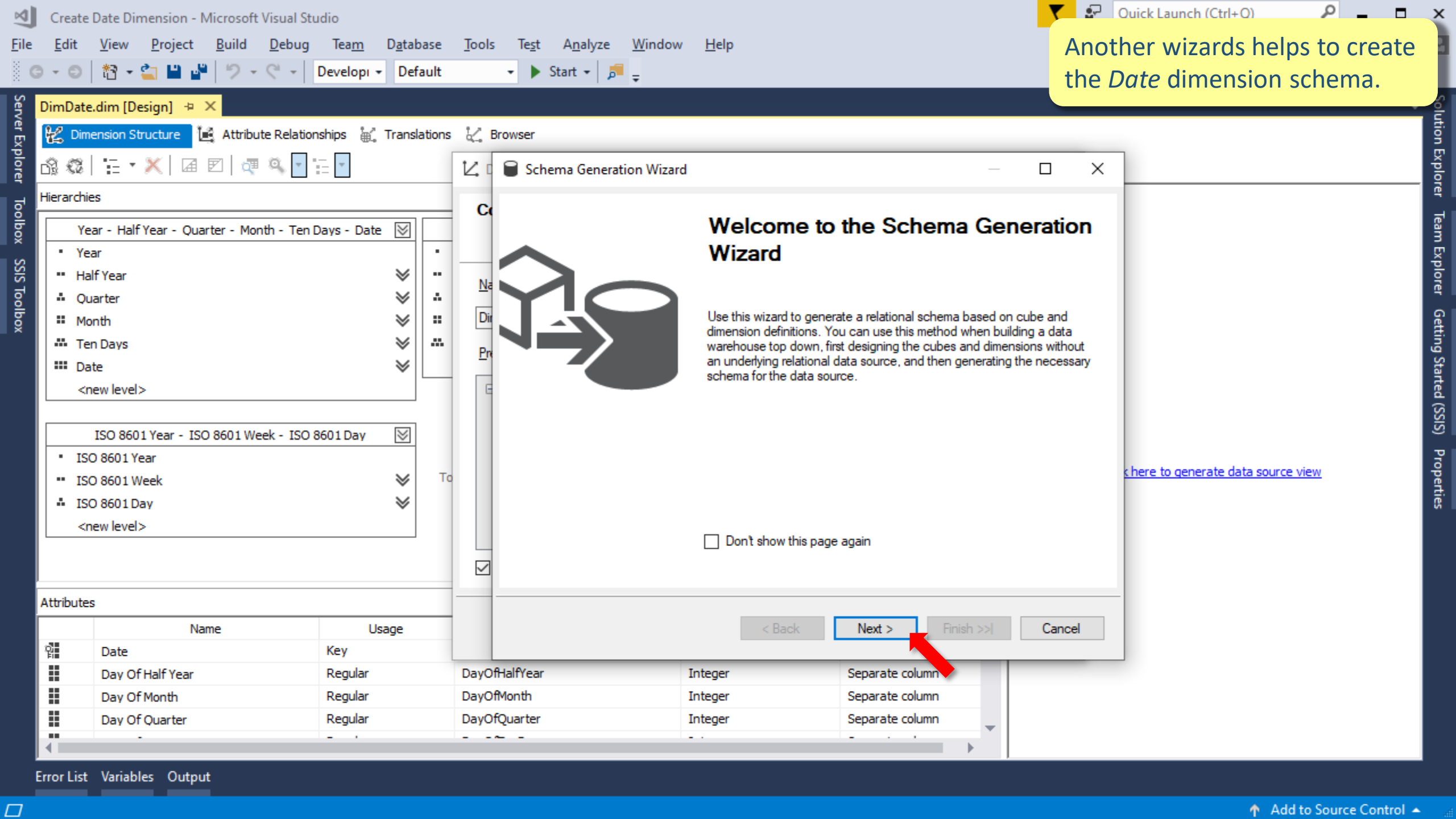
Select the start and end periods of the *Date* dimension, the day that represents the first day of the week and the time periods to be considered. Select all the time periods in order to create the most complete Date dimension. You are creating a *Date* dimension that covers the period from January 1st of 1900 to December 31st of 2040. Such a wide period covers the needs of the *DateOfBirth* attribute of the *Card* table used in the *Data Mart* project.

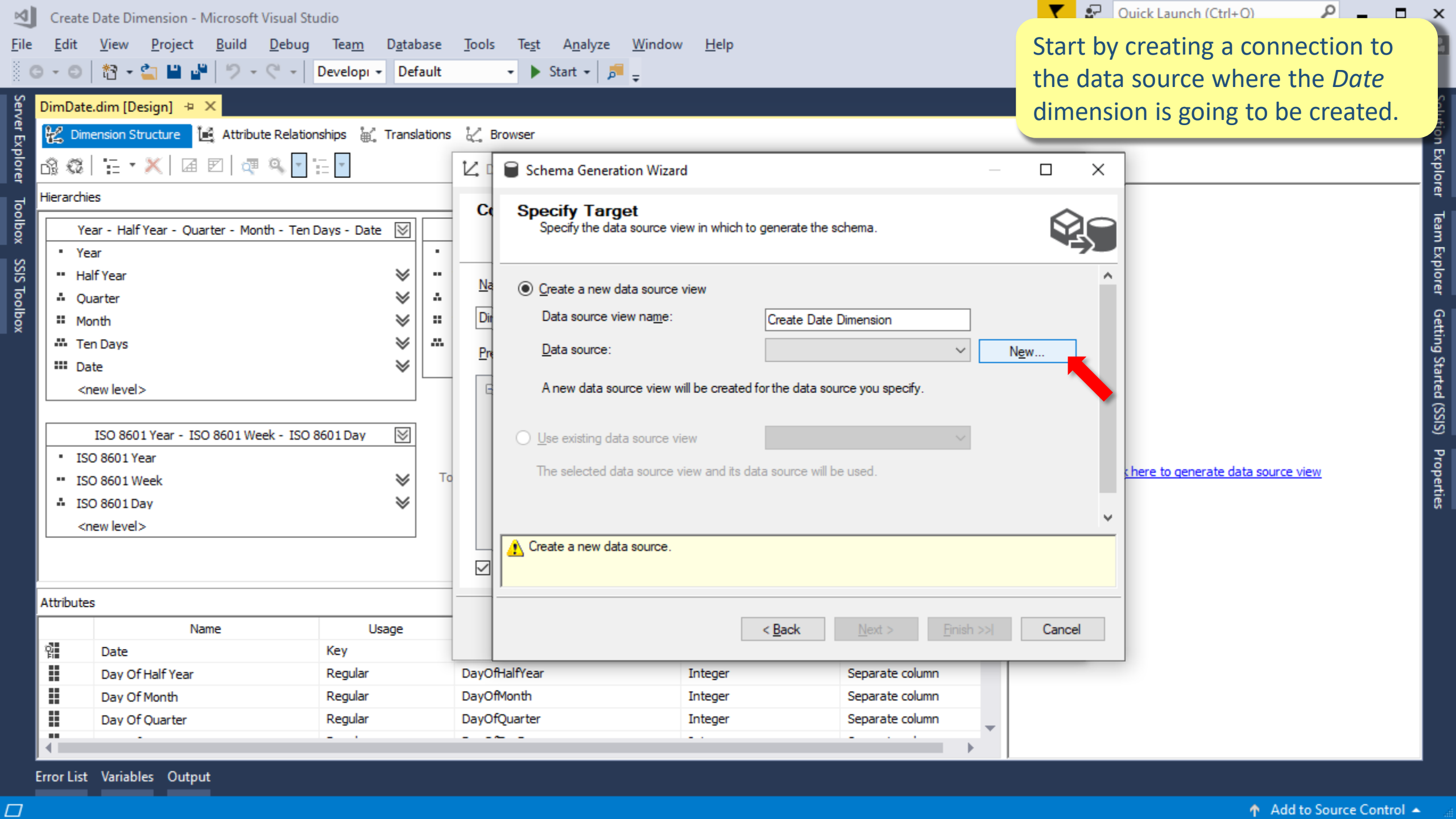

Create Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team Database Tools Test Analyze Window Help
Start
Server Explorer
Toolbox
SSIS Toolbox
Dimension Wizard
Select Calendars
Select the calendars for which you want to create hierarchies.
Regular calendar
Fiscal calendar
Start day and month:
1
January
Fiscal calendar naming convention:
Calendar year name + 1
Reporting (or marketing) calendar
Start week and month:
1
January
Week by month pattern:
Week 445
Manufacturing calendar
Start week and month:
1
January
Quarter with extra periods:
4
ISO 8601 calendar
< Back
Next >
Finish >>|
Cancel
Select regular calendar (fiscal, reporting and manufacturing calendars would also be possible and generate additional date attributes) and include extra ISO 8601 calendar attributes for the Date dimension.
Create Date Dimension
Data Sources
Data Source Views
Cubes
Dimensions
Mining Structures
Roles
Assemblies
Miscellaneous
Team Explorer
Getting Started (SSIS)
Properties
Error List
Variables
Output
This item does not support previewing
Add to Source Control

Name the new *Date* dimension as *DimDate* and select the option to generate its schema.

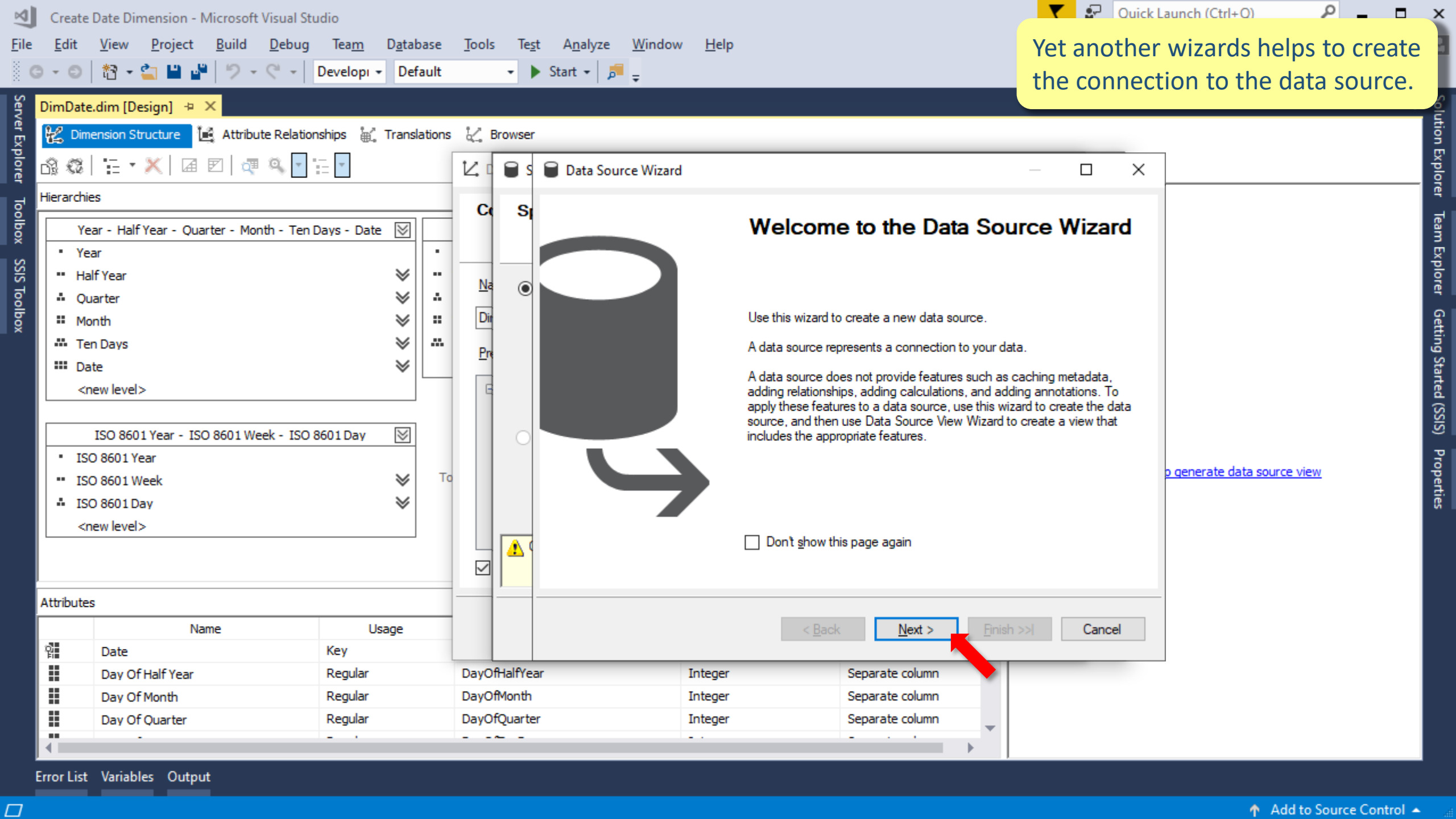


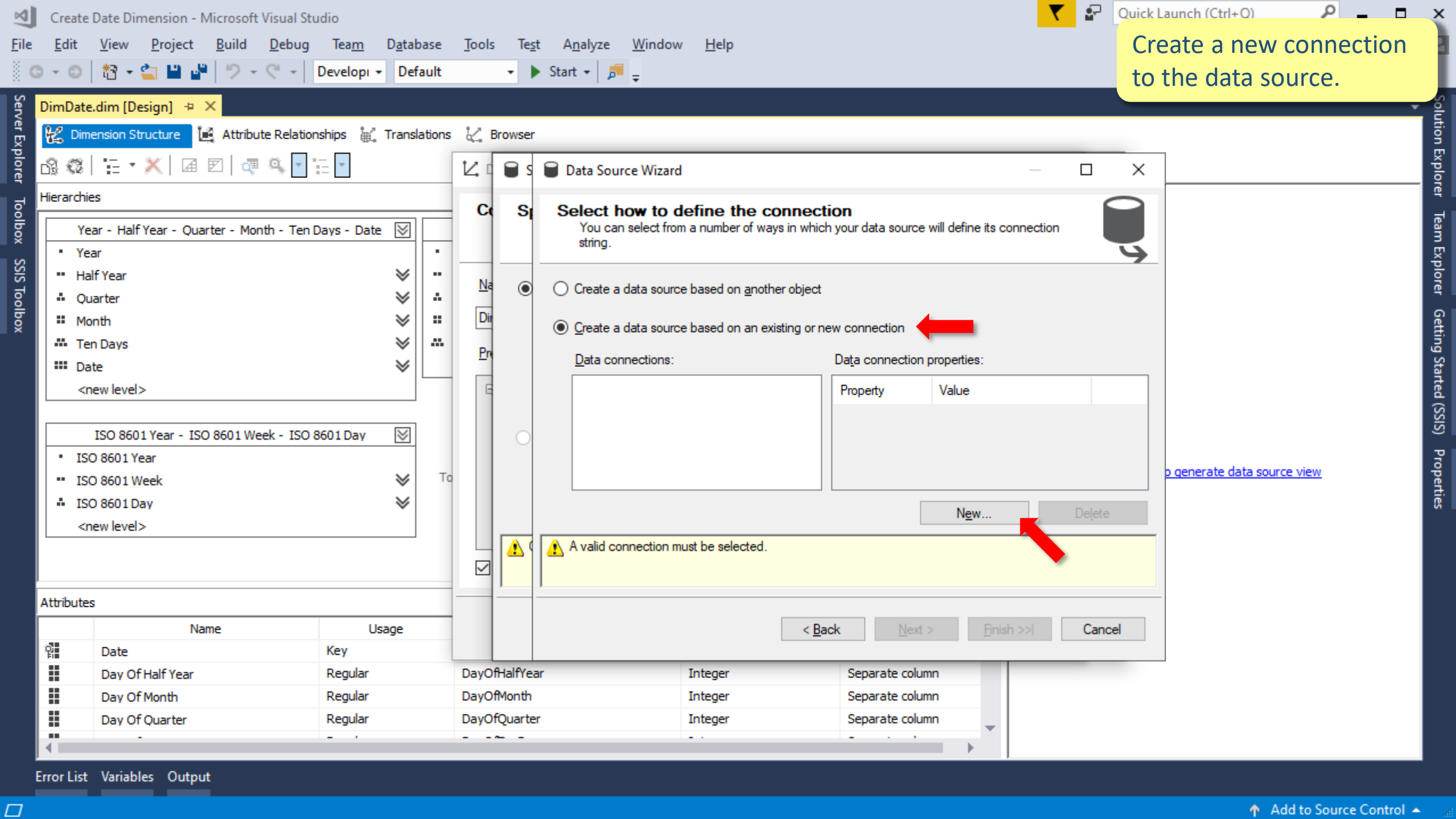
Another wizards helps to create the *Date* dimension schema.

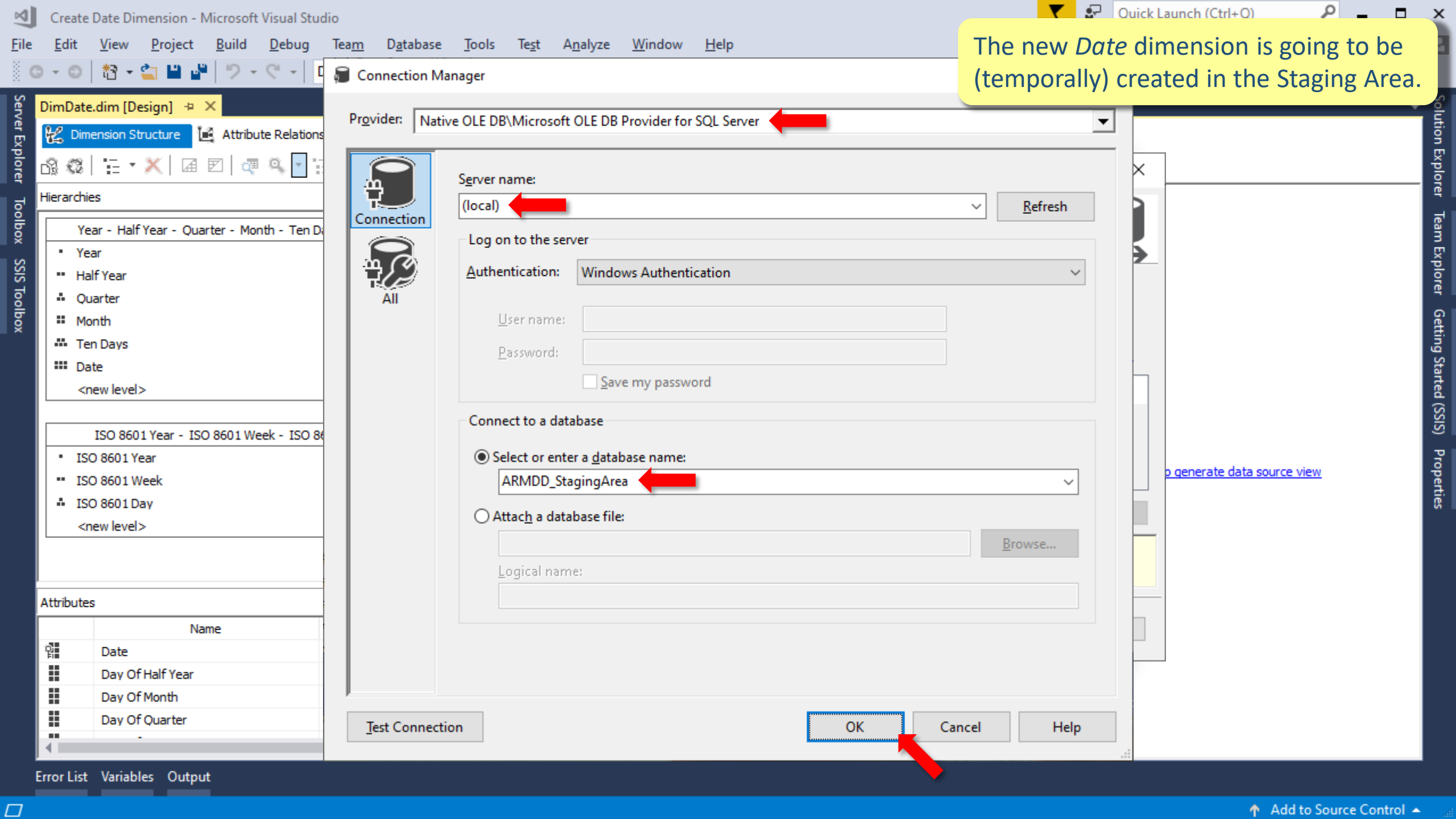


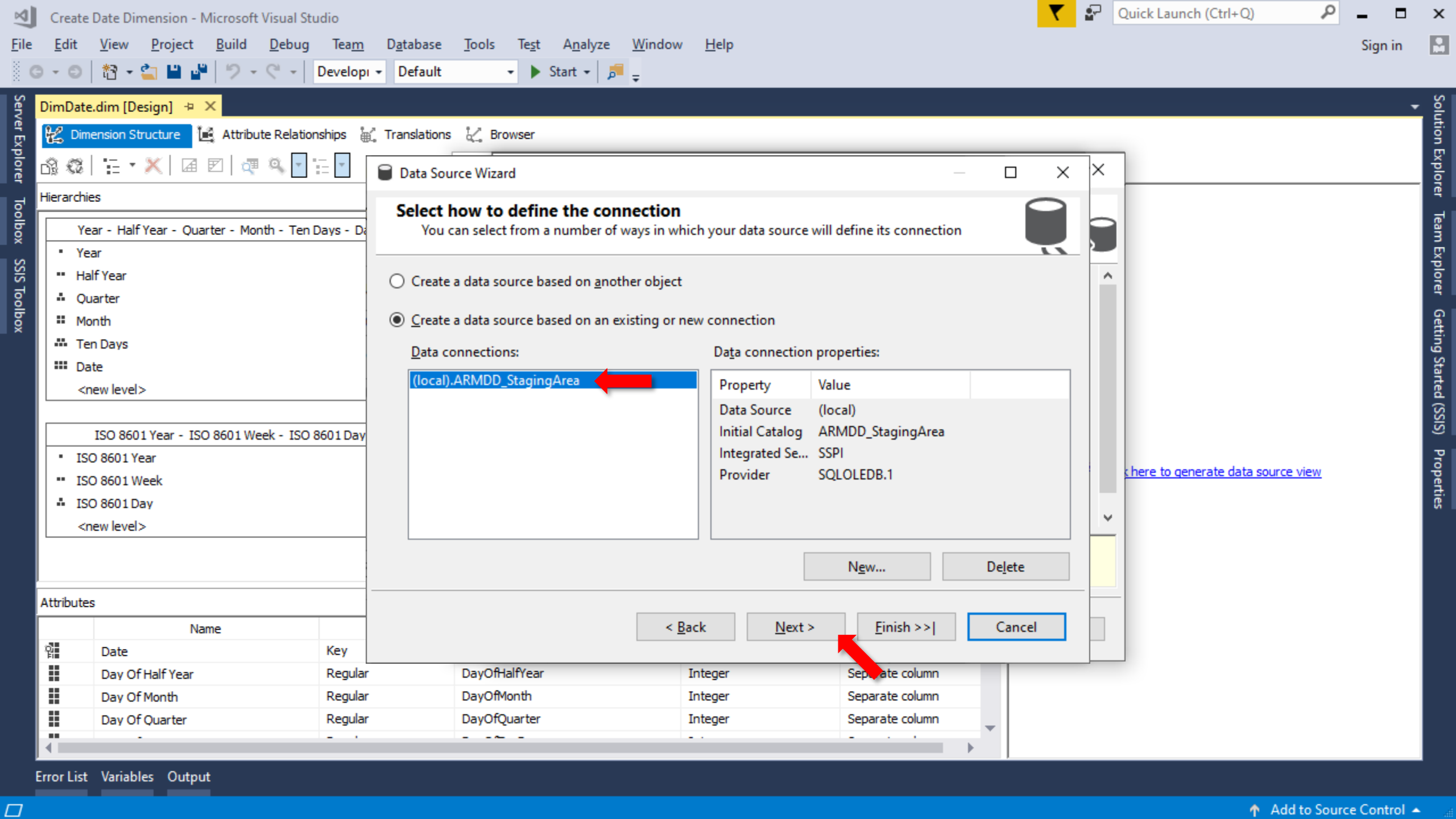

Create Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team Database Tools Test Analyze Window Help
Start by creating a connection to the data source where the *Date* dimension is going to be created.
DimDate.dim [Design]
Dimension Structure
Attribute Relationships
Translations
Browser
Hierarchies
Year - Half Year - Quarter - Month - Ten Days - Date
Year
Half Year
Quarter
Month
Ten Days
Date
<new level>
ISO 8601 Year - ISO 8601 Week - ISO 8601 Day
ISO 8601 Year
ISO 8601 Week
ISO 8601 Day
<new level>
Schema Generation Wizard
Specify Target
Specify the data source view in which to generate the schema.
Create a new data source view
Data source view name:
Create Date Dimension
Data source:
New...
A new data source view will be created for the data source you specify.
Use existing data source view
The selected data source view and its data source will be used.
Create a new data source.
< Back
Next >
Finish >>|
Cancel
Attributes
Name
Usage
Date
Key
Day Of Half Year
Regular
DayOfHalfYear
Integer
Separate column
Day Of Month
Regular
DayOfMonth
Integer
Separate column
Day Of Quarter
Regular
DayOfQuarter
Integer
Separate column
here to generate data source view
Error List
Variables
Output
Add to Source Control

Yet another wizards helps to create the connection to the data source.




Create Date Dimension - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Database Tools Test Analyze Window Help
Start
Create a new connection to the data source.
DimDate.dim [Design]
Dimension Structure
Attribute Relationships
Translations
Browser
Hierarchies
Year - Half Year - Quarter - Month - Ten Days - Date
Year
Half Year
Quarter
Month
Ten Days
Date
<new level>
ISO 8601 Year - ISO 8601 Week - ISO 8601 Day
ISO 8601 Year
ISO 8601 Week
ISO 8601 Day
<new level>
Attributes
Name
Usage
Date
Key
Day Of Half Year
Regular
DayOfHalfYear
Integer
Separate column
Day Of Month
Regular
DayOfMonth
Integer
Separate column
Day Of Quarter
Regular
DayOfQuarter
Integer
Separate column
Data Source Wizard
Select how to define the connection
You can select from a number of ways in which your data source will define its connection string.
Create a data source based on another object
Create a data source based on an existing or new connection
Data connections:
Data connection properties:
Property
Value
New...
Delete
A valid connection must be selected.
< Back
Next >
Finish >>|
Cancel
Error List
Variables
Output
Add to Source Control


Create Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team Database Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
The new *Date* dimension is going to be (temporally) created in the Staging Area.
Connection Manager
Provider: Native OLE DB\Microsoft OLE DB Provider for SQL Server
Connection
All
Server name: (local) Refresh
Log on to the server
Authentication: Windows Authentication
User name:
Password:
Save my password
Connect to a database
Select or enter a database name: ARMDD_StagingArea
Attach a database file:
Browse...
Logical name:
Test Connection OK Cancel Help
DimDate.dim [Design]
Dimension Structure Attribute Relations
Hierarchies
Year - Half Year - Quarter - Month - Ten D
Year
Half Year
Quarter
Month
Ten Days
Date
<new level>
ISO 8601 Year - ISO 8601 Week - ISO 86
ISO 8601 Year
ISO 8601 Week
ISO 8601 Day
<new level>
Attributes
Name
Date
Day Of Half Year
Day Of Month
Day Of Quarter
Error List Variables Output
Add to Source Control
Server Explorer Toolbox SSIS Toolbox
Solution Explorer Team Explorer Getting Started (SSIS) Properties


Create Date Dimension - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Database Tools Test Analyze Window Help
Sign in
Start
DimDate.dim [Design]
Dimension Structure
Attribute Relationships
Translations
Browser
Hierarchies
Year - Half Year - Quarter - Month - Ten Days - Da
Year
Half Year
Quarter
Month
Ten Days
Date
<new level>
ISO 8601 Year - ISO 8601 Week - ISO 8601 Day
ISO 8601 Year
ISO 8601 Week
ISO 8601 Day
<new level>
Attributes
Name
Date
Key
Day Of Half Year
Regular
DayOfHalfYear
Integer
Separate column
Day Of Month
Regular
DayOfMonth
Integer
Separate column
Day Of Quarter
Regular
DayOfQuarter
Integer
Separate column
Error List
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Add to Source Control
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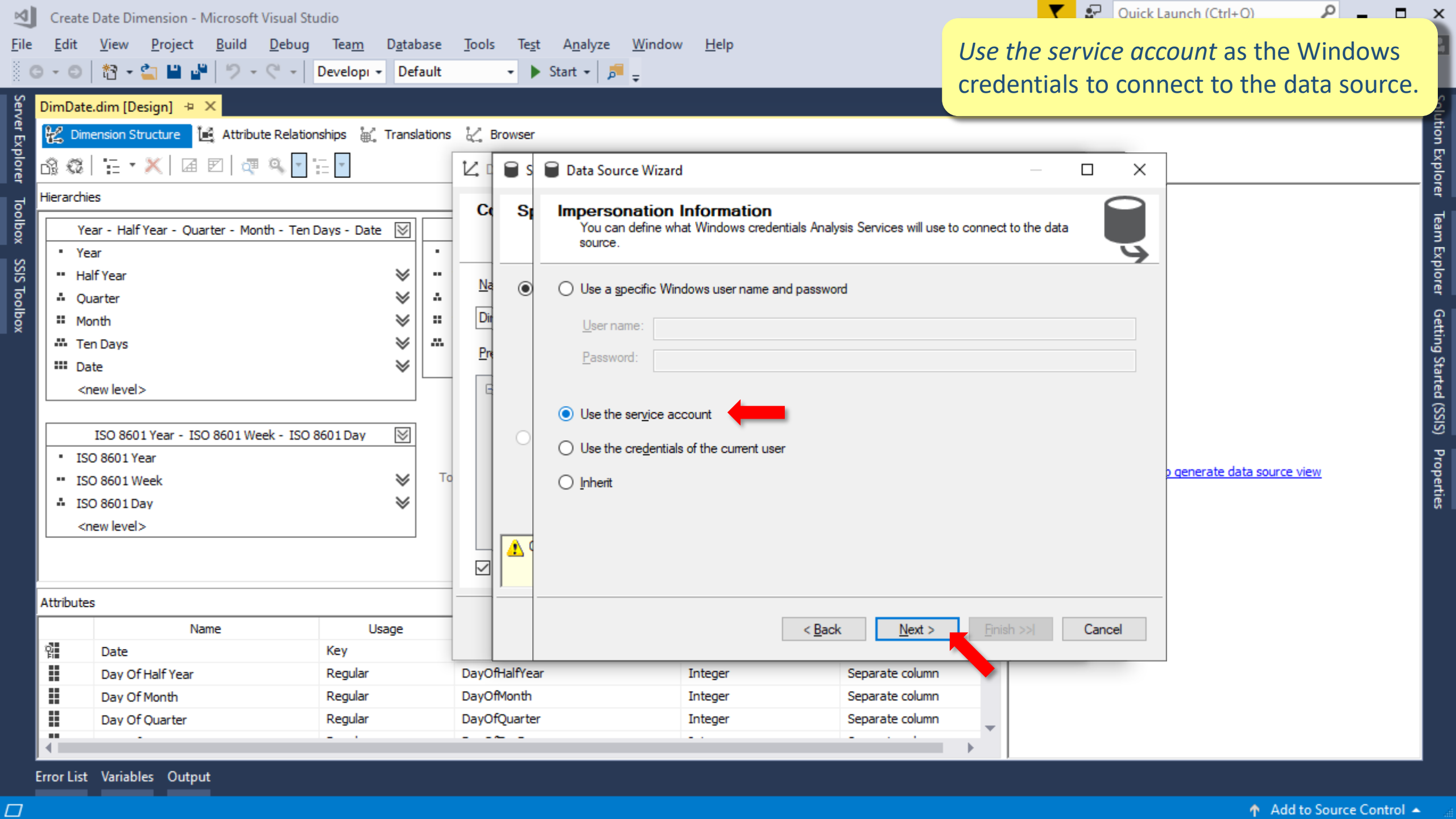
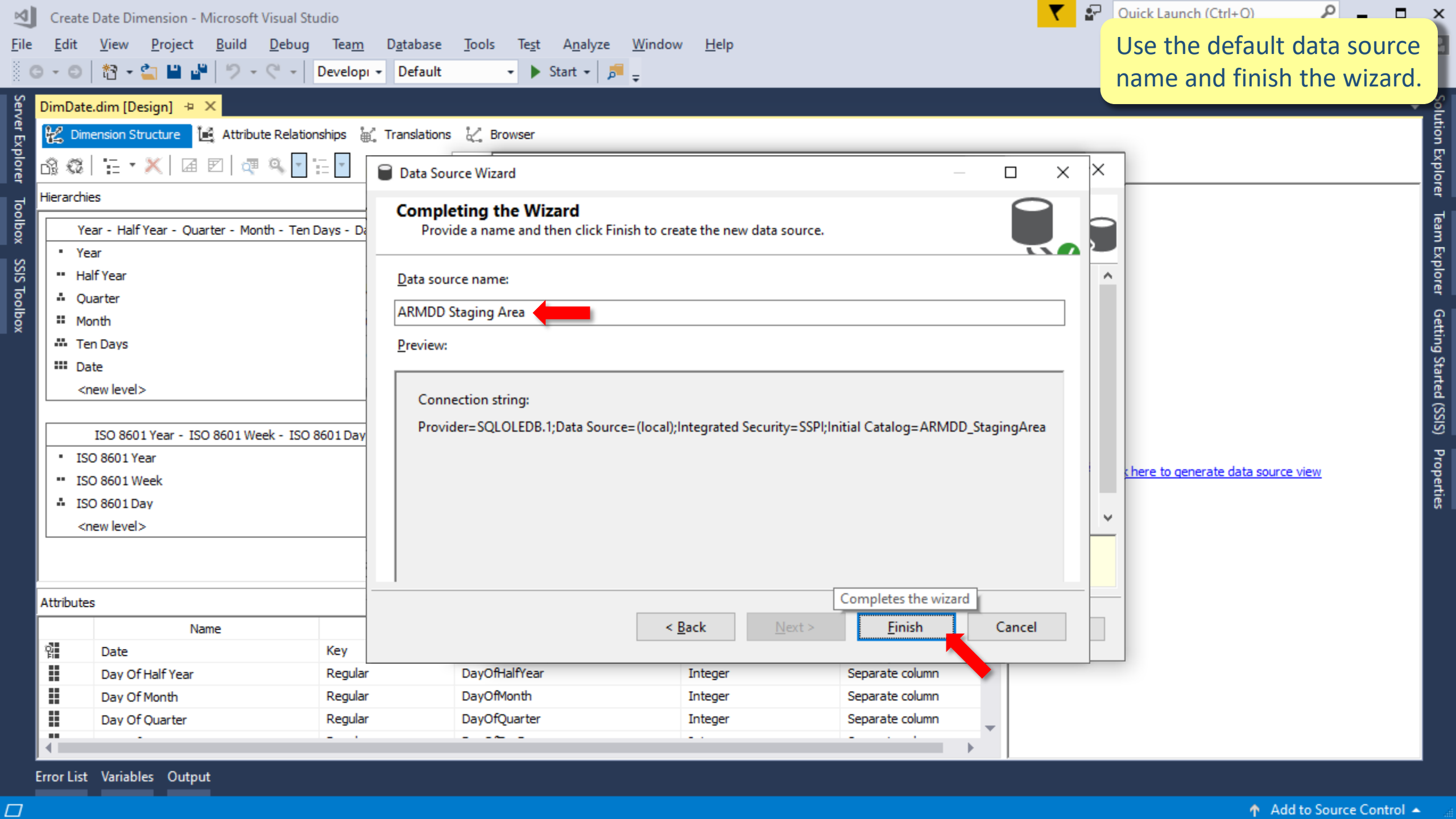
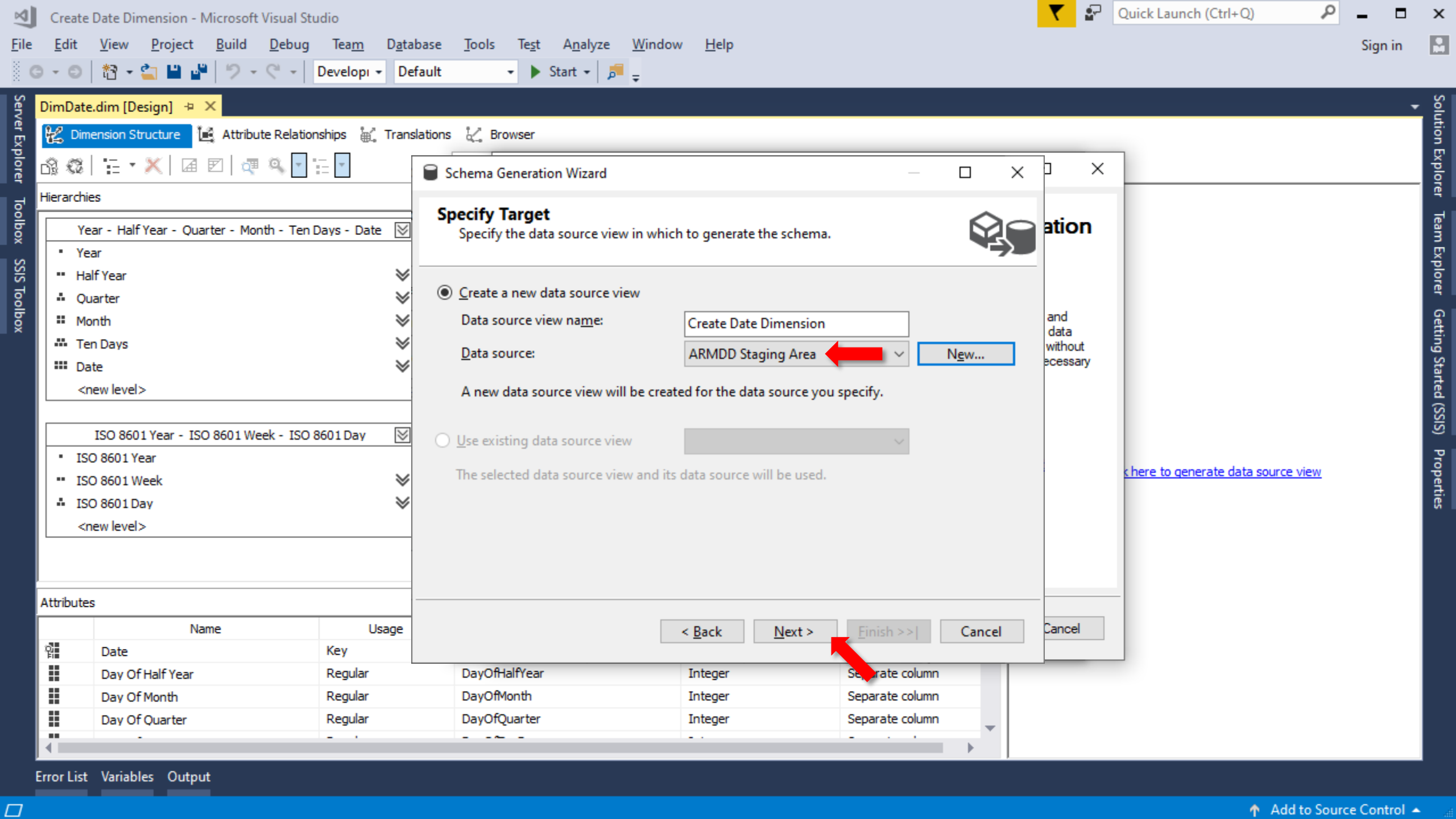
Properties
here to generate data source view
Data Source Wizard
Select how to define the connection
You can select from a number of ways in which your data source will define its connection
Create a data source based on another object
Create a data source based on an existing or new connection
Data connections:
(local).ARMDD_StagingArea
Data connection properties:
Property
Value
Data Source
(local)
Initial Catalog
ARMDD_StagingArea
Integrated Se...
SSPI
Provider
SQLOLEDB.1
New...
Delete
< Back
Next >
Finish >>|
Cancel


Create Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team Database Tools Test Analyze Window Help
DimDate.dim [Design]
Dimension Structure
Attribute Relationships
Translations
Browser
Hierarchies
Year - Half Year - Quarter - Month - Ten Days - Date
Year
Half Year
Quarter
Month
Ten Days
Date
<new level>
ISO 8601 Year - ISO 8601 Week - ISO 8601 Day
ISO 8601 Year
ISO 8601 Week
ISO 8601 Day
<new level>
Attributes
Name
Usage
Date
Key
Day Of Half Year
Regular
DayOfHalfYear
Integer
Separate column
Day Of Month
Regular
DayOfMonth
Integer
Separate column
Day Of Quarter
Regular
DayOfQuarter
Integer
Separate column
Error List
Variables
Output
Add to Source Control
Use the service account as the Windows credentials to connect to the data source.
Data Source Wizard
Impersonation Information
You can define what Windows credentials Analysis Services will use to connect to the data source.
Use a specific Windows user name and password
User name:
Password:
Use the service account
Use the credentials of the current user
Inherit
< Back
Next >
Finish >>|
Cancel


Create Date Dimension - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Database Tools Test Analyze Window Help
Use the default data source name and finish the wizard.
DimDate.dim [Design]
Dimension Structure
Attribute Relationships
Translations
Browser
Hierarchies
Year - Half Year - Quarter - Month - Ten Days - Da
Year
Half Year
Quarter
Month
Ten Days
Date
<new level>
ISO 8601 Year - ISO 8601 Week - ISO 8601 Day
ISO 8601 Year
ISO 8601 Week
ISO 8601 Day
<new level>
Attributes
Name
Date
Key
Day Of Half Year
Regular
DayOfHalfYear
Integer
Separate column
Day Of Month
Regular
DayOfMonth
Integer
Separate column
Day Of Quarter
Regular
DayOfQuarter
Integer
Separate column
Error List
Variables
Output
Add to Source Control
Data Source Wizard
Completing the Wizard
Provide a name and then click Finish to create the new data source.
Data source name:
ARMDD Staging Area
Preview:
Connection string:
Provider=SQLOLEDB.1;Data Source=(local);Integrated Security=SSPI;Initial Catalog=ARMDD_StagingArea
Completes the wizard
< Back
Next >
Finish
Cancel
here to generate data source view


Create Date Dimension - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Database Tools Test Analyze Window Help
Sign in
Start
DimDate.dim [Design]
Dimension Structure
Attribute Relationships
Translations
Browser
Hierarchies
Year - Half Year - Quarter - Month - Ten Days - Date
Year
Half Year
Quarter
Month
Ten Days
Date
<new level>
ISO 8601 Year - ISO 8601 Week - ISO 8601 Day
ISO 8601 Year
ISO 8601 Week
ISO 8601 Day
<new level>
Attributes
Name
Usage
Date
Key
Day Of Half Year
Regular
DayOfHalfYear
Integer
Separate column
Day Of Month
Regular
DayOfMonth
Integer
Separate column
Day Of Quarter
Regular
DayOfQuarter
Integer
Separate column
Schema Generation Wizard
Specify Target
Specify the data source view in which to generate the schema.
Create a new data source view
Data source view name:
Create Date Dimension
Data source:
ARMDD Staging Area
New...
A new data source view will be created for the data source you specify.
Use existing data source view
The selected data source view and its data source will be used.
< Back
Next >
Finish >>|
Cancel
here to generate data source view
Cancel
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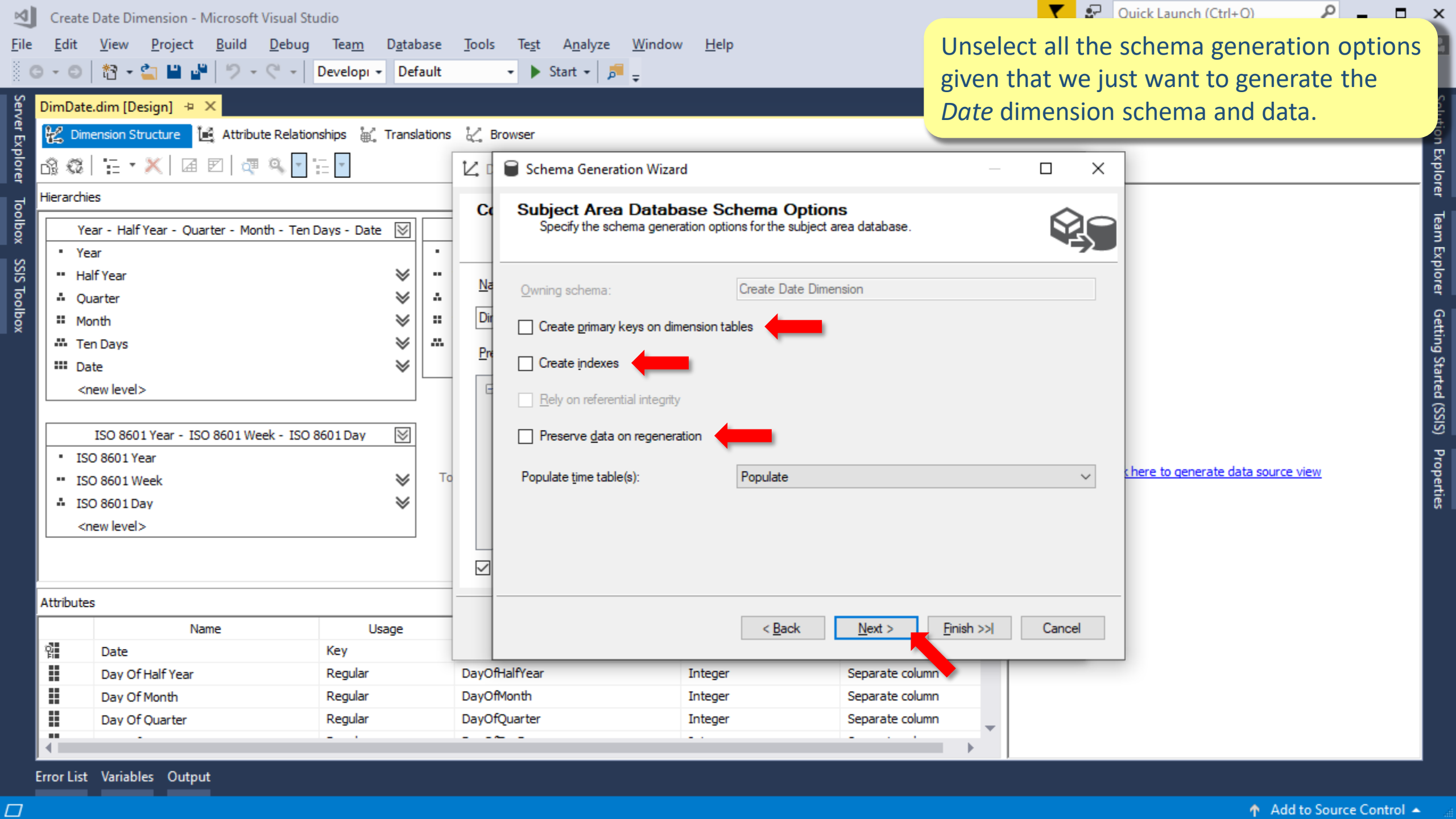
Create Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team Database Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Unselect all the schema generation options given that we just want to generate the *Date* dimension schema and data.
DimDate.dim [Design]
Dimension Structure
Attribute Relationships
Translations
Browser
Hierarchies
Year - Half Year - Quarter - Month - Ten Days - Date
Year
Half Year
Quarter
Month
Ten Days
Date
<new level>
ISO 8601 Year - ISO 8601 Week - ISO 8601 Day
ISO 8601 Year
ISO 8601 Week
ISO 8601 Day
<new level>
Schema Generation Wizard
Subject Area Database Schema Options
Specify the schema generation options for the subject area database.
Owning schema:
Create Date Dimension
Create primary keys on dimension tables
Create indexes
Rely on referential integrity
Preserve data on regeneration
Populate time table(s):
Populate
< Back
Next >
Finish >>|
Cancel
Attributes
Name
Usage
Date
Key
Day Of Half Year
Regular
DayOfHalfYear
Integer
Separate column
Day Of Month
Regular
DayOfMonth
Integer
Separate column
Day Of Quarter
Regular
DayOfQuarter
Integer
Separate column
here to generate data source view
Error List
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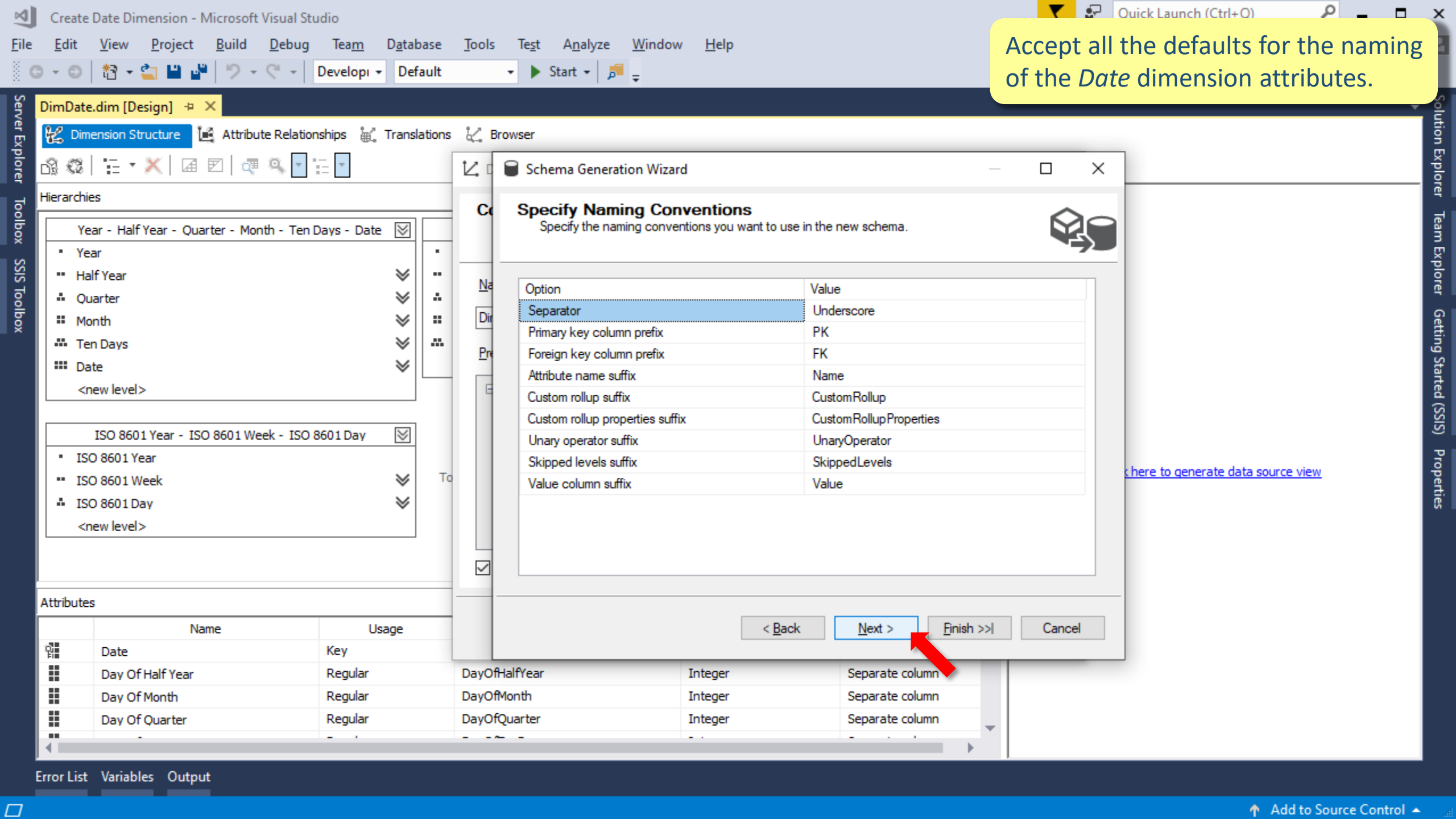
Create Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team Database Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Accept all the defaults for the naming of the *Date* dimension attributes.
DimDate.dim [Design]
Dimension Structure
Attribute Relationships
Translations
Browser
Hierarchies
Year - Half Year - Quarter - Month - Ten Days - Date
Year
Half Year
Quarter
Month
Ten Days
Date
<new level>
ISO 8601 Year - ISO 8601 Week - ISO 8601 Day
ISO 8601 Year
ISO 8601 Week
ISO 8601 Day
<new level>
Schema Generation Wizard
Specify Naming Conventions
Specify the naming conventions you want to use in the new schema.
Option
Value
Separator
Underscore
Primary key column prefix
PK
Foreign key column prefix
FK
Attribute name suffix
Name
Custom rollup suffix
CustomRollup
Custom rollup properties suffix
CustomRollupProperties
Unary operator suffix
UnaryOperator
Skipped levels suffix
SkippedLevels
Value column suffix
Value
< Back
Next >
Finish >>|
Cancel
Attributes
Name
Usage
Date
Key
Day Of Half Year
Regular
DayOfHalfYear
Integer
Separate column
Day Of Month
Regular
DayOfMonth
Integer
Separate column
Day Of Quarter
Regular
DayOfQuarter
Integer
Separate column
here to generate data source view
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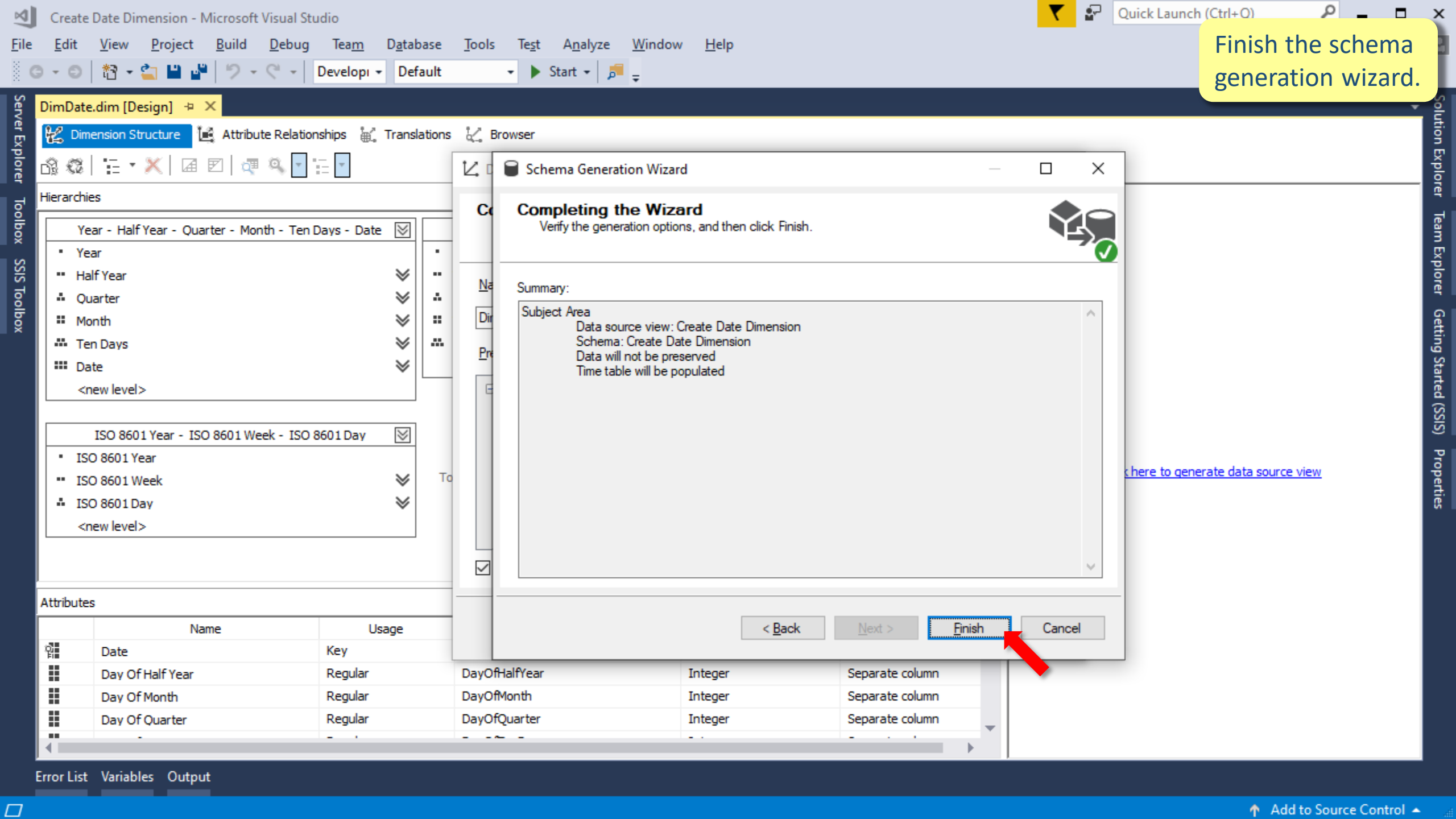
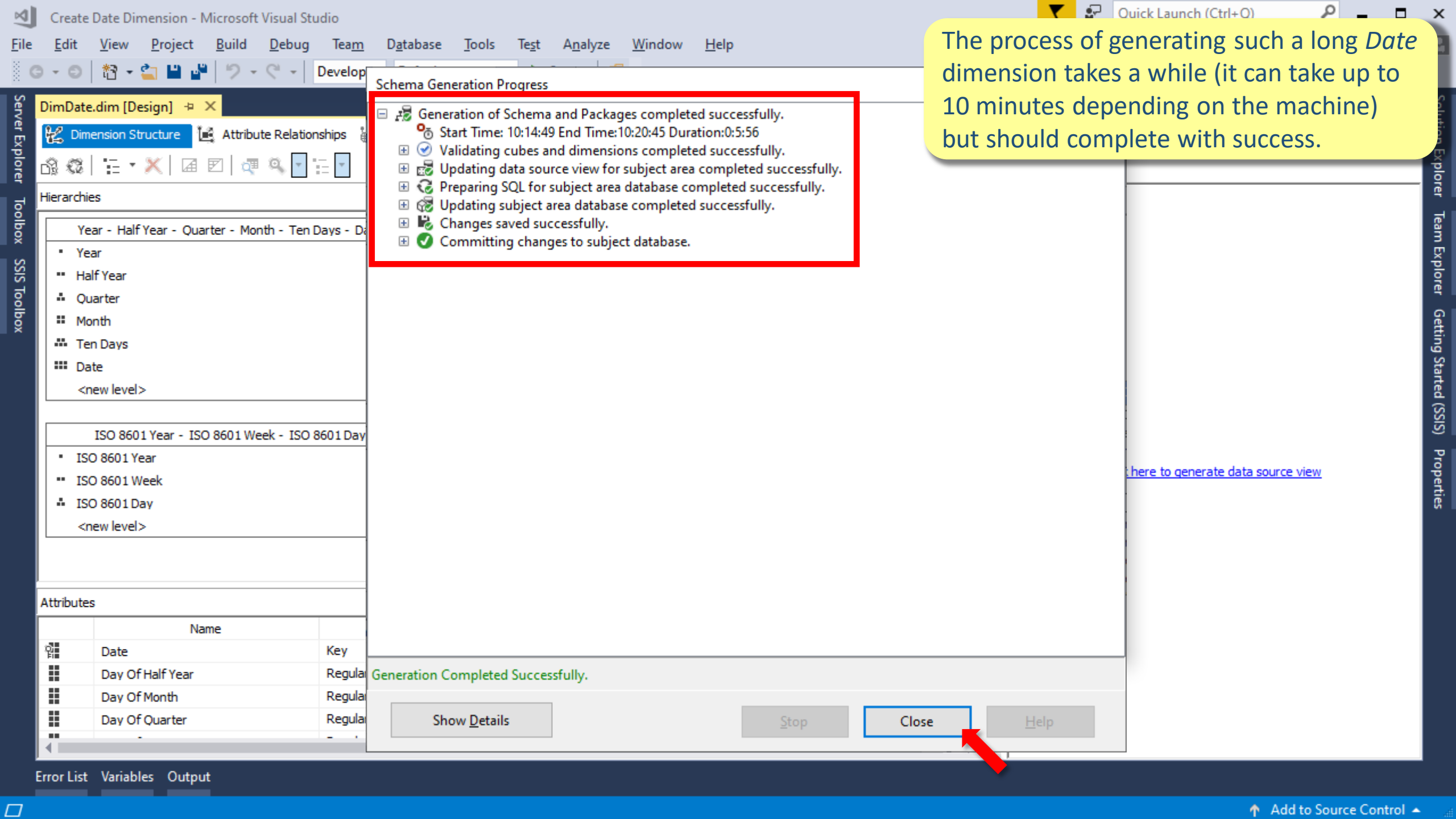
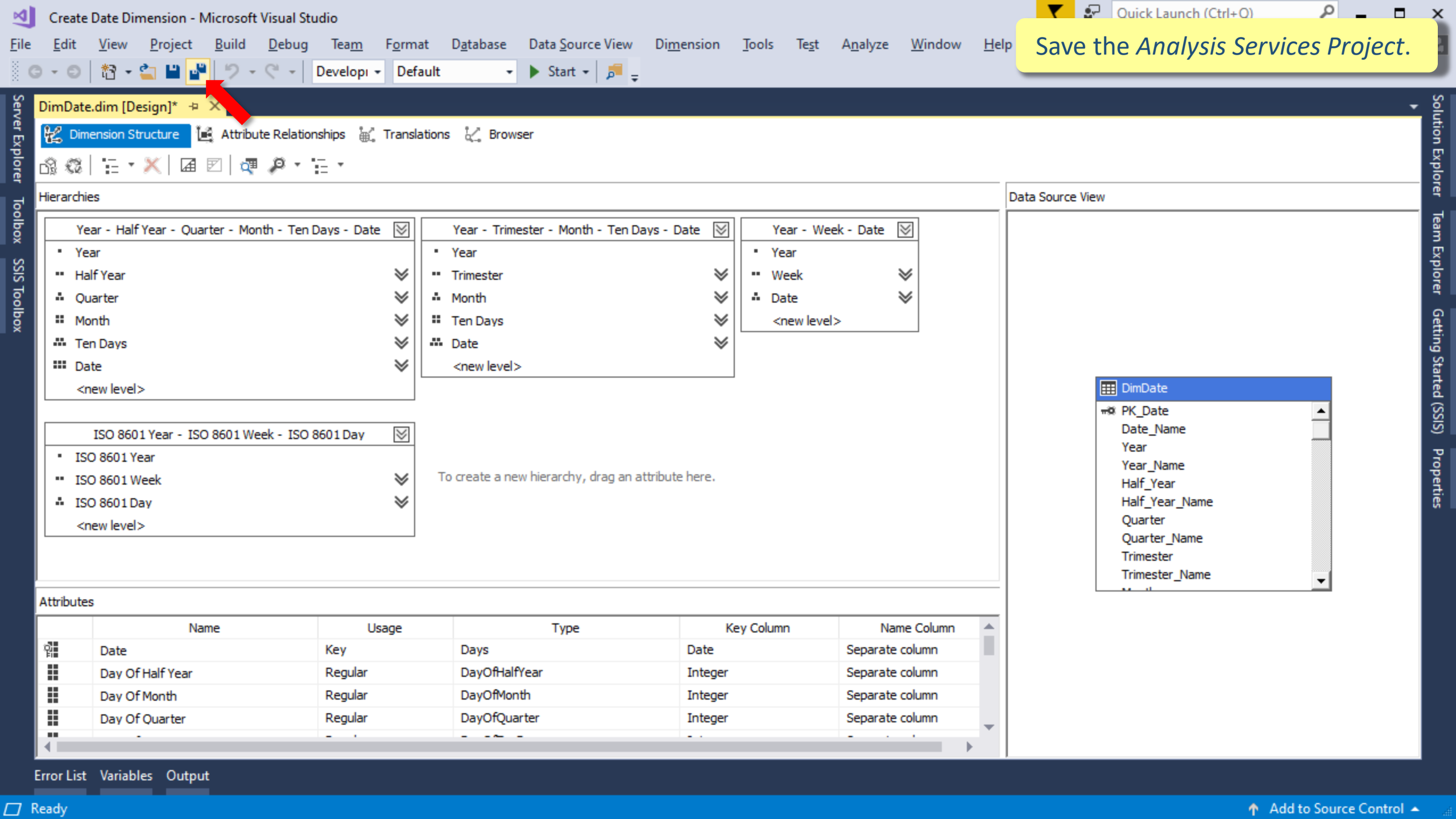
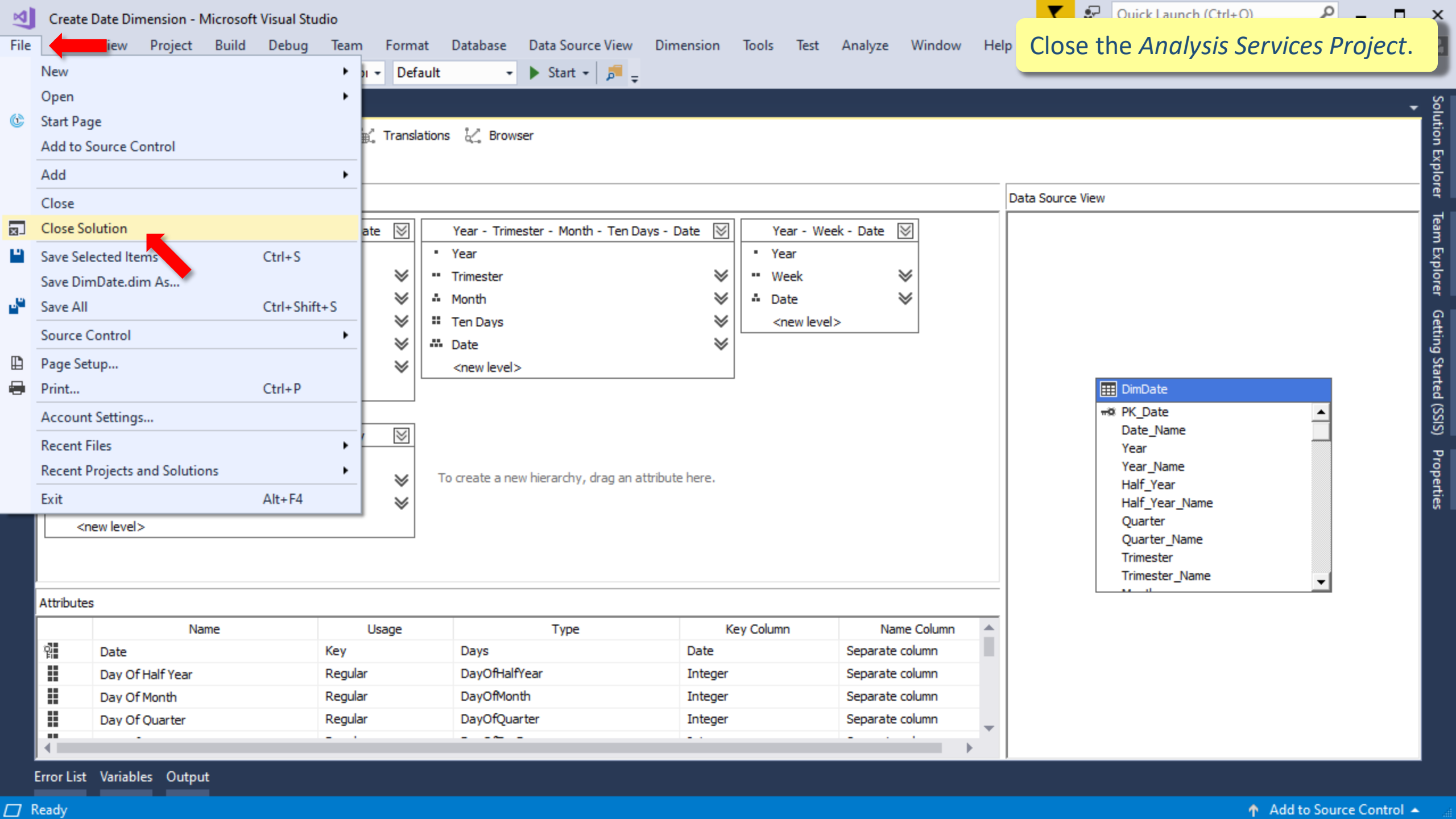
Getting Started (SSIS)
Properties

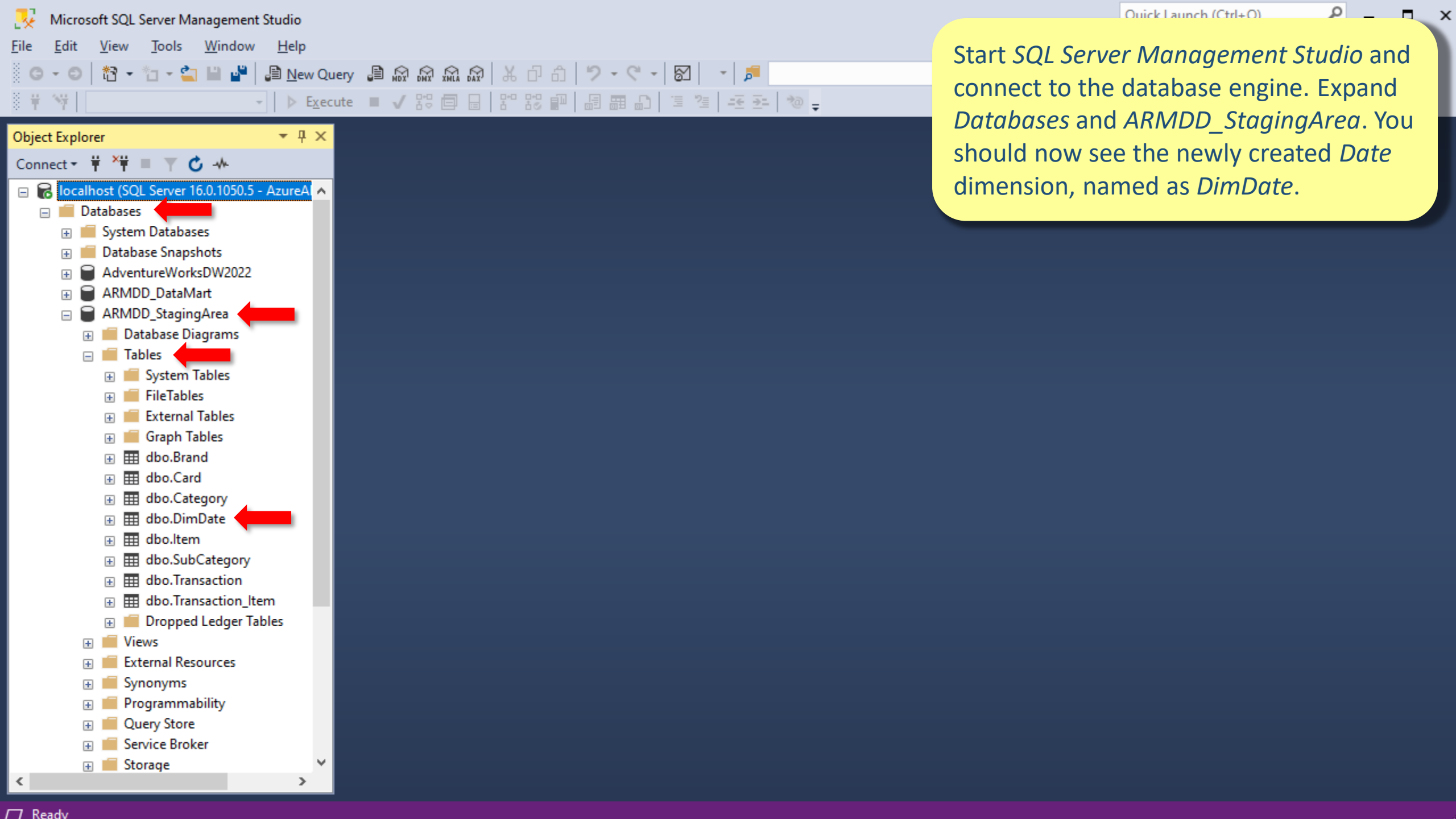

Create Date Dimension - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Database Tools Test Analyze Window Help
Start
Finish the schema generation wizard.
DimDate.dim [Design]
Dimension Structure
Attribute Relationships
Translations
Browser
Hierarchies
Year - Half Year - Quarter - Month - Ten Days - Date
Year
Half Year
Quarter
Month
Ten Days
Date
<new level>
ISO 8601 Year - ISO 8601 Week - ISO 8601 Day
ISO 8601 Year
ISO 8601 Week
ISO 8601 Day
<new level>
Attributes
Name
Usage
Date
Key
Day Of Half Year
Regular
DayOfHalfYear
Integer
Separate column
Day Of Month
Regular
DayOfMonth
Integer
Separate column
Day Of Quarter
Regular
DayOfQuarter
Integer
Separate column
Schema Generation Wizard
Completing the Wizard
Verify the generation options, and then click Finish.
Summary:
Subject Area
Data source view: Create Date Dimension
Schema: Create Date Dimension
Data will not be preserved
Time table will be populated
< Back
Next >
Finish
Cancel
here to generate data source view
Error List
Variables
Output
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties



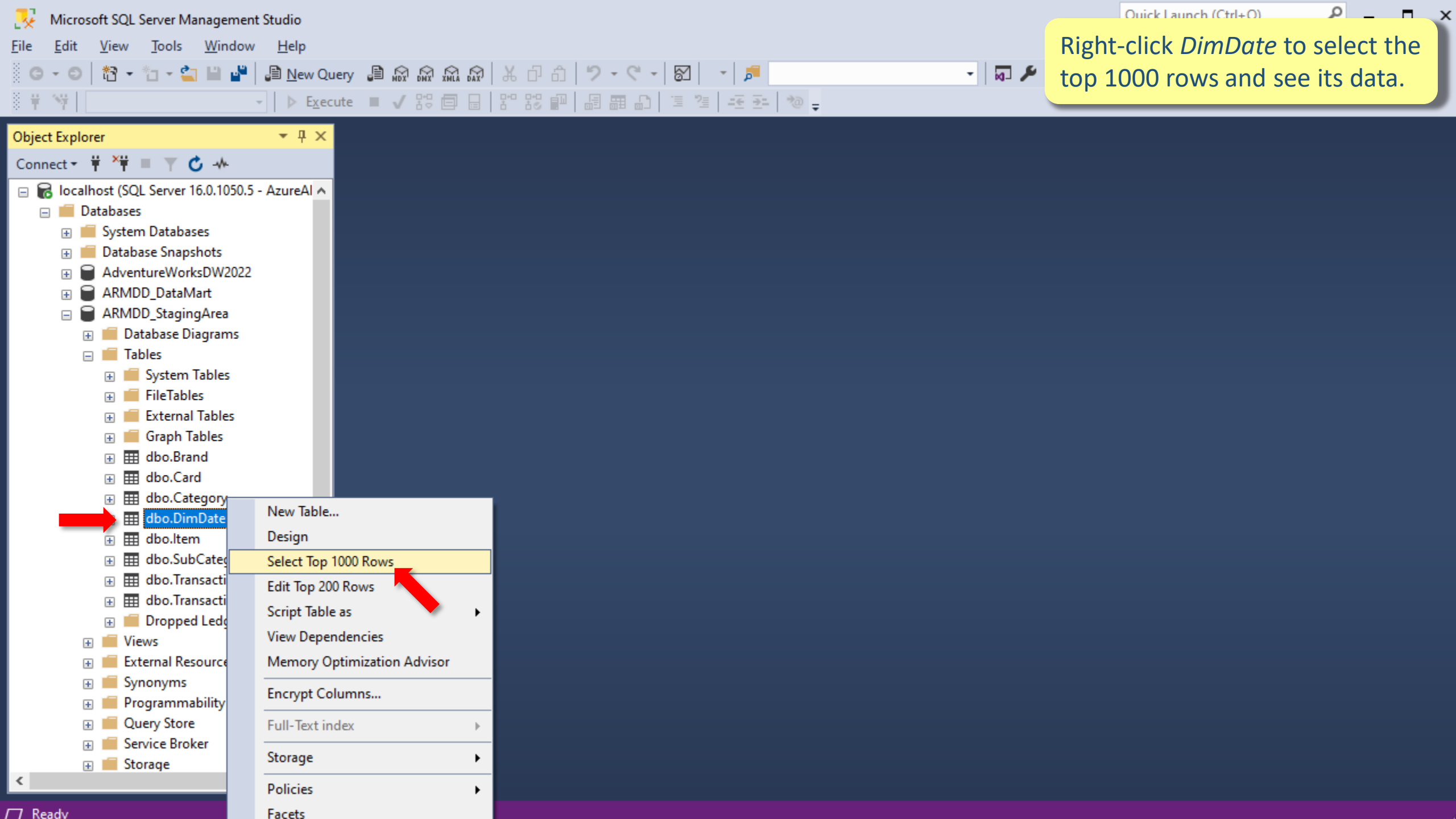
The process of generating such a long *Date* dimension takes a while (it can take up to 10 minutes depending on the machine) but should complete with success.

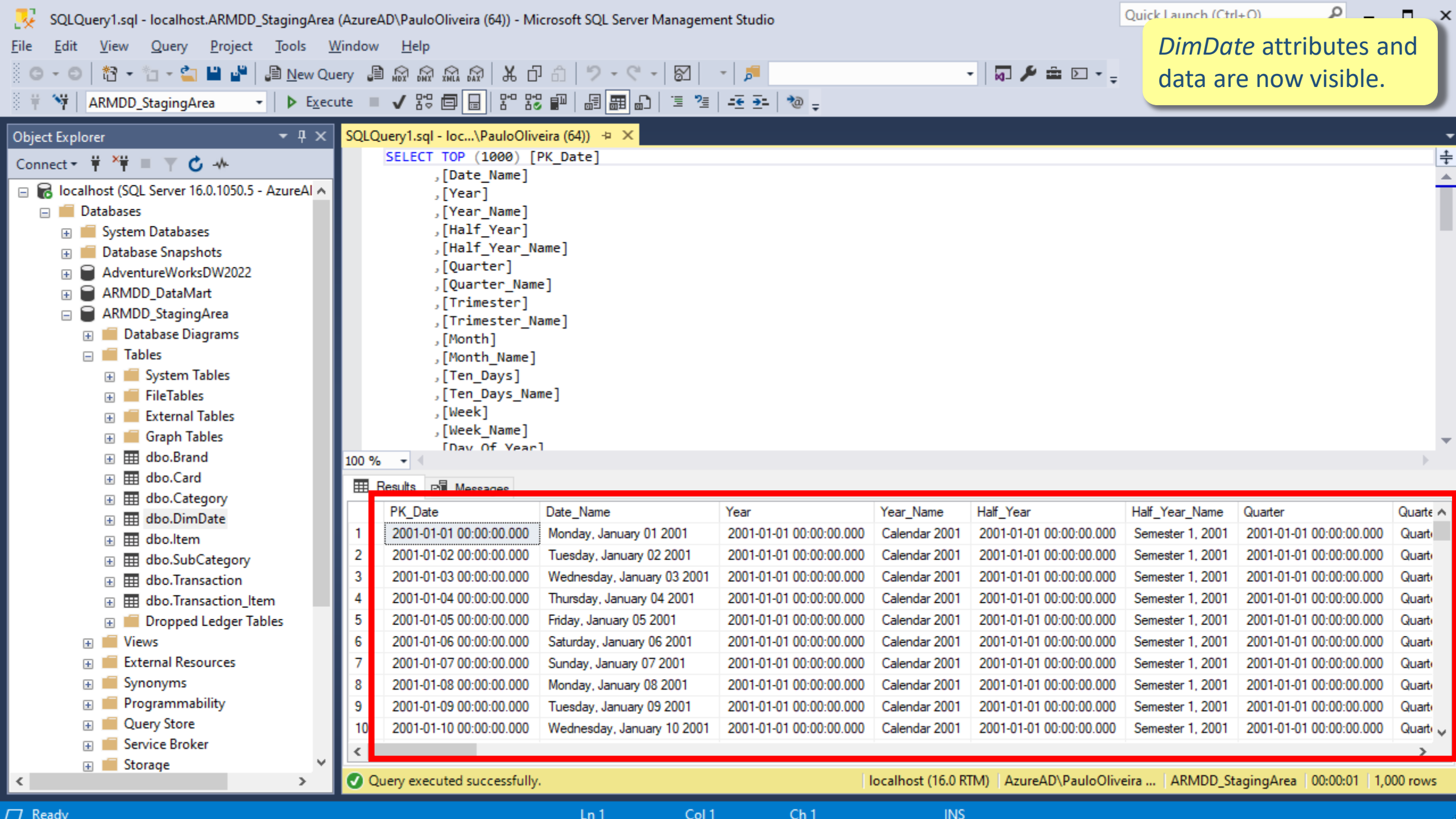

Create Date Dimension - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Format Database Data Source View Dimension Tools Test Analyze Window Help
Save the *Analysis Services Project*.
Start
DimDate.dim [Design]*
Dimension Structure
Attribute Relationships
Translations
Browser
Hierarchies
Year - Half Year - Quarter - Month - Ten Days - Date
Year
Half Year
Quarter
Month
Ten Days
Date
<new level>
Year - Trimester - Month - Ten Days - Date
Year
Trimester
Month
Ten Days
Date
<new level>
Year - Week - Date
Year
Week
Date
<new level>
ISO 8601 Year - ISO 8601 Week - ISO 8601 Day
ISO 8601 Year
ISO 8601 Week
ISO 8601 Day
<new level>
To create a new hierarchy, drag an attribute here.
Data Source View
DimDate
PK_Date
Date_Name
Year
Year_Name
Half_Year
Half_Year_Name
Quarter
Quarter_Name
Trimester
Trimester_Name
Attributes
Name Usage Type Key Column Name Column
Date Key Days Date Separate column
Day Of Half Year Regular DayOfHalfYear Integer Separate column
Day Of Month Regular DayOfMonth Integer Separate column
Day Of Quarter Regular DayOfQuarter Integer Separate column
Error List Variables Output
Ready
Add to Source Control
Server Explorer Toolbox SSIS Toolbox
Solution Explorer Team Explorer Getting Started (SSIS) Properties


Create Date Dimension - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File
Project
Build
Debug
Team
Format
Database
Data Source View
Dimension
Tools
Test
Analyze
Window
Help
Close the *Analysis Services Project*.
New
Open
Start Page
Add to Source Control
Add
Close
Close Solution
Save Selected Items Ctrl+S
Save DimDate.dim As...
Save All Ctrl+Shift+S
Source Control
Page Setup...
Print... Ctrl+P
Account Settings...
Recent Files
Recent Projects and Solutions
Exit Alt+F4
Default
Start
Translations
Browser
Year - Trimester - Month - Ten Days - Date
Year
Trimester
Month
Ten Days
Date
<new level>
Year - Week - Date
Year
Week
Date
<new level>
<new level>
To create a new hierarchy, drag an attribute here.
Data Source View
DimDate
PK_Date
Date_Name
Year
Year_Name
Half_Year
Half_Year_Name
Quarter
Quarter_Name
Trimester
Trimester_Name
Attributes
Name
Usage
Type
Key Column
Name Column
Date
Key
Days
Date
Separate column
Day Of Half Year
Regular
DayOfHalfYear
Integer
Separate column
Day Of Month
Regular
DayOfMonth
Integer
Separate column
Day Of Quarter
Regular
DayOfQuarter
Integer
Separate column
Error List
Variables
Output
Ready
Add to Source Control
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties



Start *SQL Server Management Studio* and connect to the database engine. Expand *Databases* and *ARMDD_StagingArea*. You should now see the newly created *Date* dimension, named as *DimDate*.


Microsoft SQL Server Management Studio
File Edit View Tools Window Help
New Query
Execute
Right-click *DimDate* to select the top 1000 rows and see its data.
Object Explorer
Connect
localhost (SQL Server 16.0.1050.5 - AzureAI
Databases
System Databases
Database Snapshots
AdventureWorksDW2022
ARMDD_DataMart
ARMDD_StagingArea
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.Brand
dbo.Card
dbo.Category
dbo.DimDate
dbo.Item
dbo.SubCateg
dbo.Transacti
dbo.Transacti
Dropped Ledg
Views
External Resource
Synonyms
Programmability
Query Store
Service Broker
Storage
New Table...
Design
Select Top 1000 Rows
Edit Top 200 Rows
Script Table as
View Dependencies
Memory Optimization Advisor
Encrypt Columns...
Full-Text index
Storage
Policies
Facets
Ready


SQLQuery1.sql - localhost.ARMDD_StagingArea (AzureAD\PauloOliveira (64)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query
ARMDD_StagingArea
Execute
DimDate attributes and data are now visible.
Object Explorer
Connect
localhost (SQL Server 16.0.1050.5 - AzureAl
Databases
System Databases
Database Snapshots
AdventureWorksDW2022
ARMDD_DataMart
ARMDD_StagingArea
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.Brand
dbo.Card
dbo.Category
dbo.DimDate
dbo.Item
dbo.SubCategory
dbo.Transaction
dbo.Transaction_Item
Dropped Ledger Tables
Views
External Resources
Synonyms
Programmability
Query Store
Service Broker
Storage
SQLQuery1.sql - loc...\PauloOliveira (64))
SELECT TOP (1000) [PK_Date]
,[Date_Name]
,[Year]
,[Year_Name]
,[Half_Year]
,[Half_Year_Name]
,[Quarter]
,[Quarter_Name]
,[Trimester]
,[Trimester_Name]
,[Month]
,[Month_Name]
,[Ten_Days]
,[Ten_Days_Name]
,[Week]
,[Week_Name]
,[Day_Of_Year]
100 %
Results
Messages
PK_Date | Date_Name | Year | Year_Name | Half_Year | Half_Year_Name | Quarter | Quarte
1 | 2001-01-01 00:00:00.000 | Monday, January 01 2001 | 2001-01-01 00:00:00.000 | Calendar 2001 | 2001-01-01 00:00:00.000 | Semester 1, 2001 | 2001-01-01 00:00:00.000 | Quart
2 | 2001-01-02 00:00:00.000 | Tuesday, January 02 2001 | 2001-01-01 00:00:00.000 | Calendar 2001 | 2001-01-01 00:00:00.000 | Semester 1, 2001 | 2001-01-01 00:00:00.000 | Quart
3 | 2001-01-03 00:00:00.000 | Wednesday, January 03 2001 | 2001-01-01 00:00:00.000 | Calendar 2001 | 2001-01-01 00:00:00.000 | Semester 1, 2001 | 2001-01-01 00:00:00.000 | Quart
4 | 2001-01-04 00:00:00.000 | Thursday, January 04 2001 | 2001-01-01 00:00:00.000 | Calendar 2001 | 2001-01-01 00:00:00.000 | Semester 1, 2001 | 2001-01-01 00:00:00.000 | Quart
5 | 2001-01-05 00:00:00.000 | Friday, January 05 2001 | 2001-01-01 00:00:00.000 | Calendar 2001 | 2001-01-01 00:00:00.000 | Semester 1, 2001 | 2001-01-01 00:00:00.000 | Quart
6 | 2001-01-06 00:00:00.000 | Saturday, January 06 2001 | 2001-01-01 00:00:00.000 | Calendar 2001 | 2001-01-01 00:00:00.000 | Semester 1, 2001 | 2001-01-01 00:00:00.000 | Quart
7 | 2001-01-07 00:00:00.000 | Sunday, January 07 2001 | 2001-01-01 00:00:00.000 | Calendar 2001 | 2001-01-01 00:00:00.000 | Semester 1, 2001 | 2001-01-01 00:00:00.000 | Quart
8 | 2001-01-08 00:00:00.000 | Monday, January 08 2001 | 2001-01-01 00:00:00.000 | Calendar 2001 | 2001-01-01 00:00:00.000 | Semester 1, 2001 | 2001-01-01 00:00:00.000 | Quart
9 | 2001-01-09 00:00:00.000 | Tuesday, January 09 2001 | 2001-01-01 00:00:00.000 | Calendar 2001 | 2001-01-01 00:00:00.000 | Semester 1, 2001 | 2001-01-01 00:00:00.000 | Quart
10 | 2001-01-10 00:00:00.000 | Wednesday, January 10 2001 | 2001-01-01 00:00:00.000 | Calendar 2001 | 2001-01-01 00:00:00.000 | Semester 1, 2001 | 2001-01-01 00:00:00.000 | Quart
Query executed successfully.
localhost (16.0 RTM) | AzureAD\PauloOliveira ... | ARMDD_StagingArea | 00:00:01 | 1,000 rows
Ready
Ln 1 Col 1 Ch 1 INS

SQLQuery1.sql - localhost.ARMDD_StagingArea (AzureAD\PauloOliveira (64)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query | Execute | ARMDD_StagingArea

You can horizontally scroll to see all the DimDate's attributes and their data.

Object Explorer

Connect

- localhost (SQL Server 16.0.1050.5 - AzureAl
  - Databases
    - System Databases
    - Database Snapshots
    - AdventureWorksDW2022
    - ARMDD_DataMart
    - ARMDD_StagingArea
      - Database Diagrams
      - Tables
        - System Tables
        - FileTables
        - External Tables
        - Graph Tables
        - dbo.Brand
        - dbo.Card
        - dbo.Category
        - dbo.DimDate
        - dbo.Item
        - dbo.SubCategory
        - dbo.Transaction
        - dbo.Transaction_Item
        - Dropped Ledger Tables
      - Views
      - External Resources
      - Synonyms
      - Programmability
      - Query Store
      - Service Broker
      - Storage

SQLQuery1.sql - loc...\PauloOliveira (64))

```
SELECT TOP (1000) [PK_Date]
      ,[Date_Name]
      ,[Year]
      ,[Year_Name]
      ,[Half_Year]
      ,[Half_Year_Name]
      ,[Quarter]
      ,[Quarter_Name]
      ,[Trimester]
      ,[Trimester_Name]
      ,[Month]
      ,[Month_Name]
      ,[Ten_Days]
      ,[Ten_Days_Name]
      ,[Week]
      ,[Week_Name]
      ,[Day_Of_Year]
```

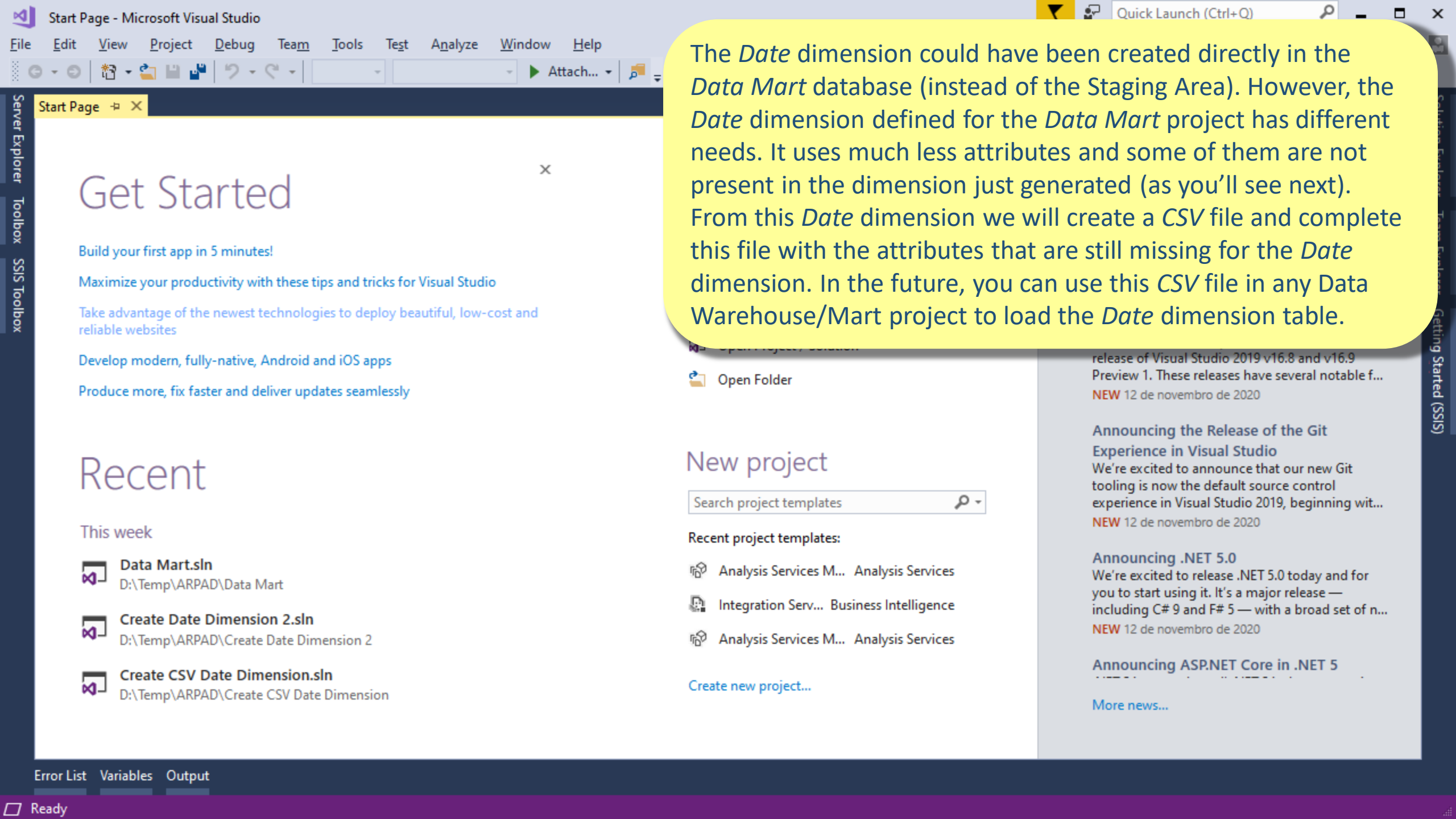
100 %

Results | Messages

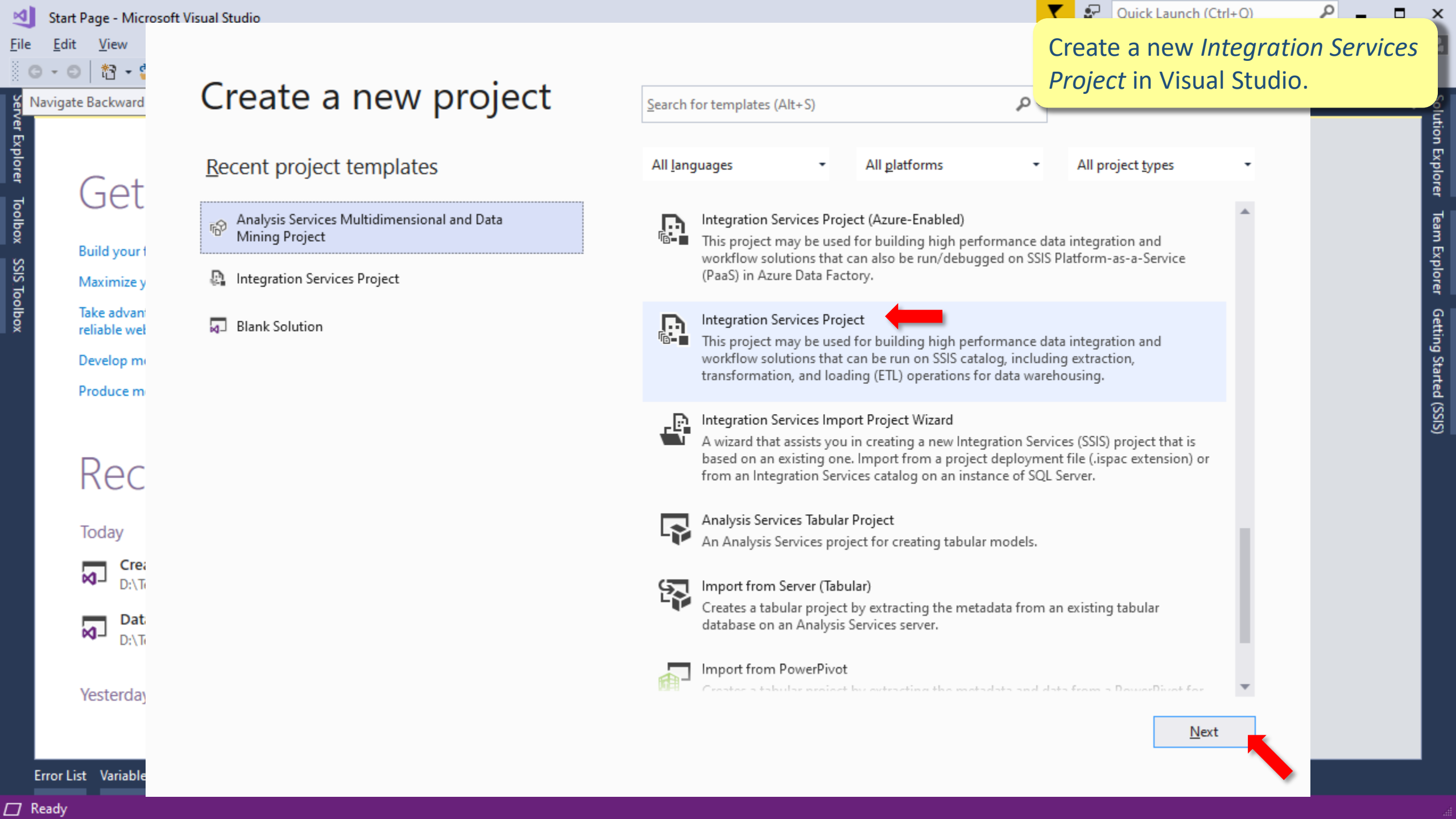
	)_8601_Day_Of_Year	ISO_8601_Day_Of_Year_Name	ISO_8601_Day_Of_Week	ISO_8601_Day_Of_Week_Name	ISO_8601_Week_Of_Year	ISO_8601_Week_Of_Year_Name
1		Day 1	1	Day 1	1	Week 1
2		Day 2	2	Day 2	1	Week 1
3		Day 3	3	Day 3	1	Week 1
4		Day 4	4	Day 4	1	Week 1
5		Day 5	5	Day 5	1	Week 1
6		Day 6	6	Day 6	1	Week 1
7		Day 7	7	Day 7	1	Week 1
8		Day 8	1	Day 1	2	Week 2
9		Day 9	2	Day 2	2	Week 2
10		Day 10	3	Day 3	2	Week 2

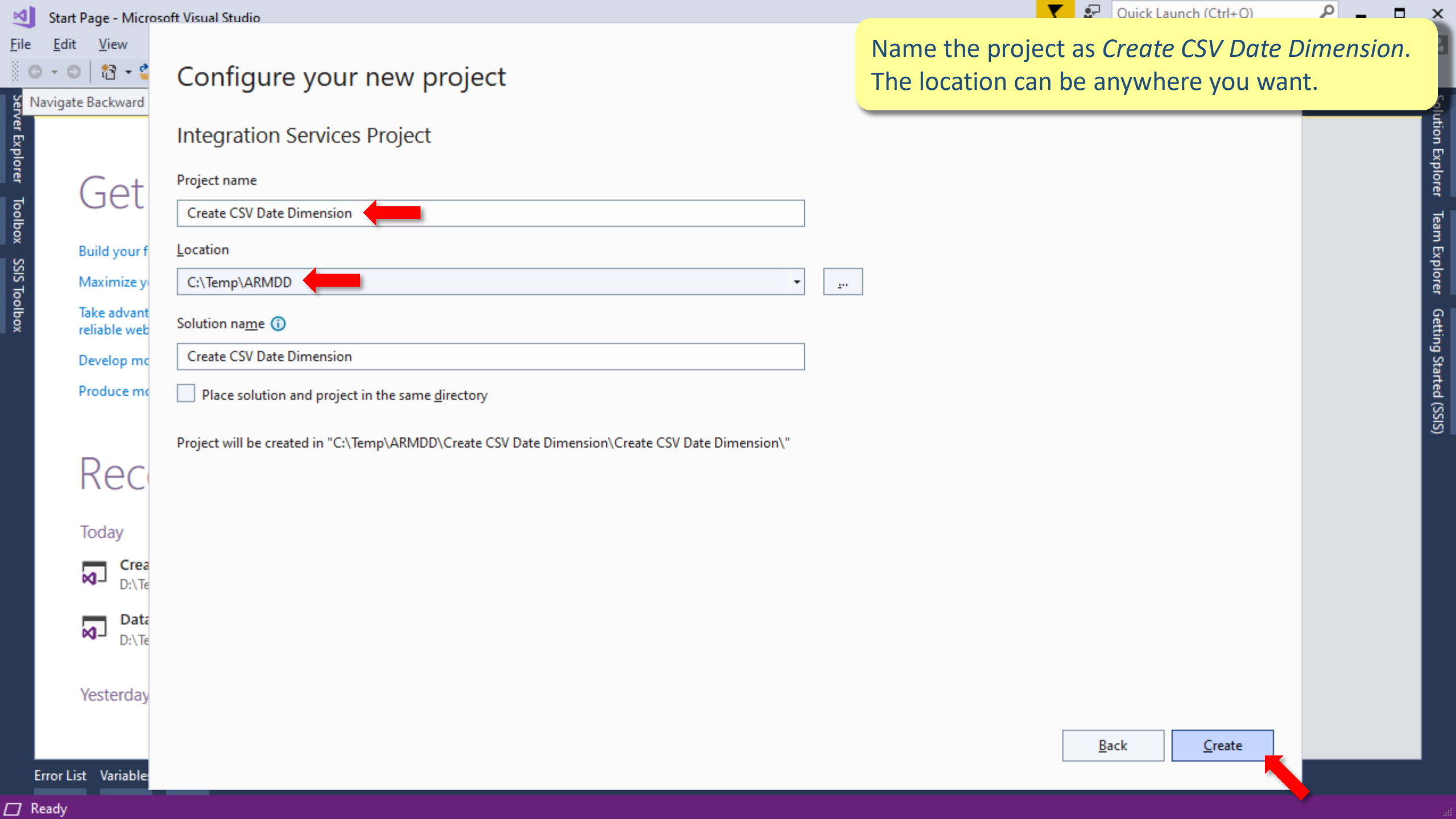
Query executed successfully. | localhost (16.0 RTM) | AzureAD\PauloOliveira ... | ARMDD_StagingArea | 00:00:01 | 1,000 ro

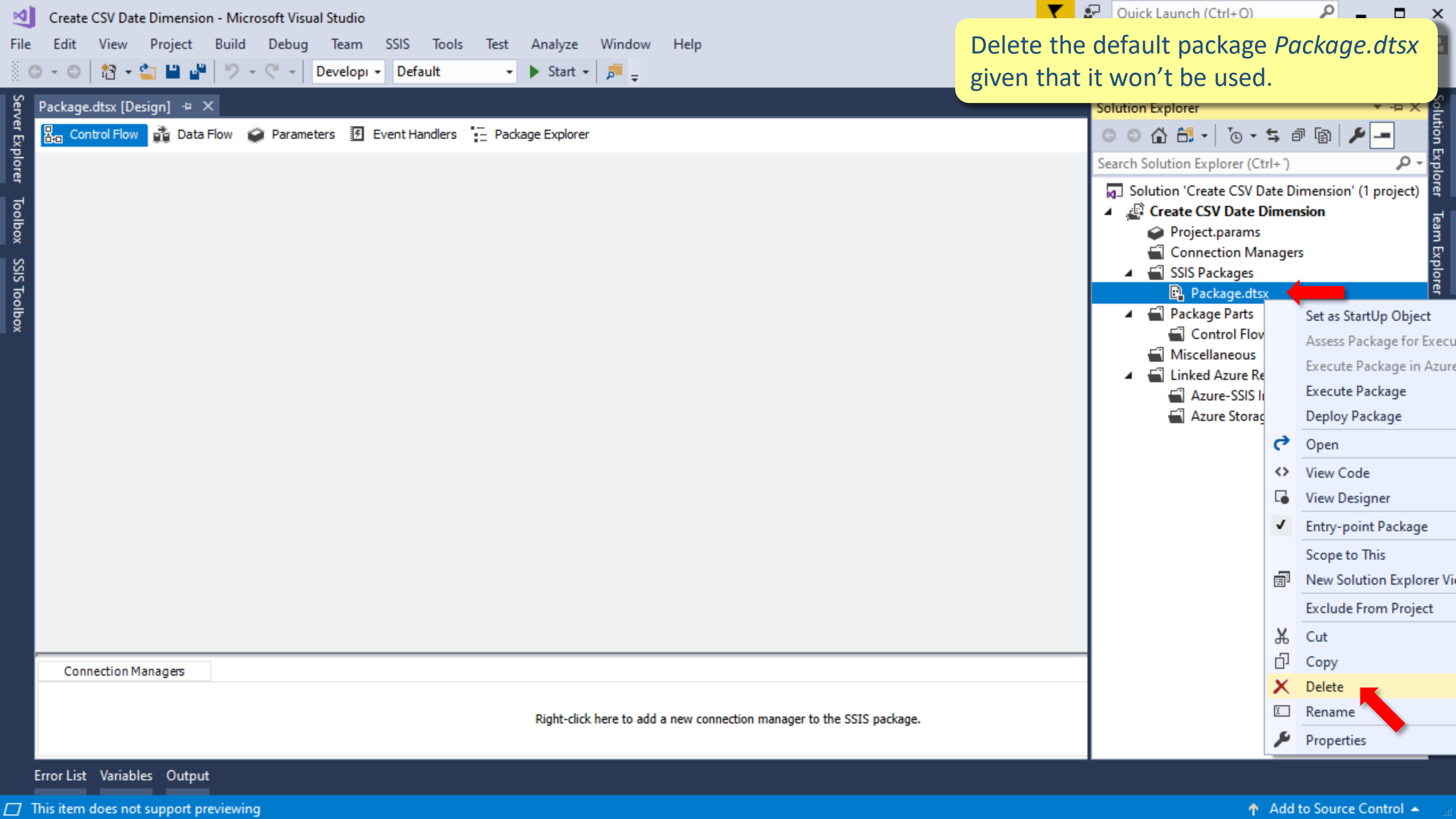
Ready Ln 1 Col 1 Ch 1 INS

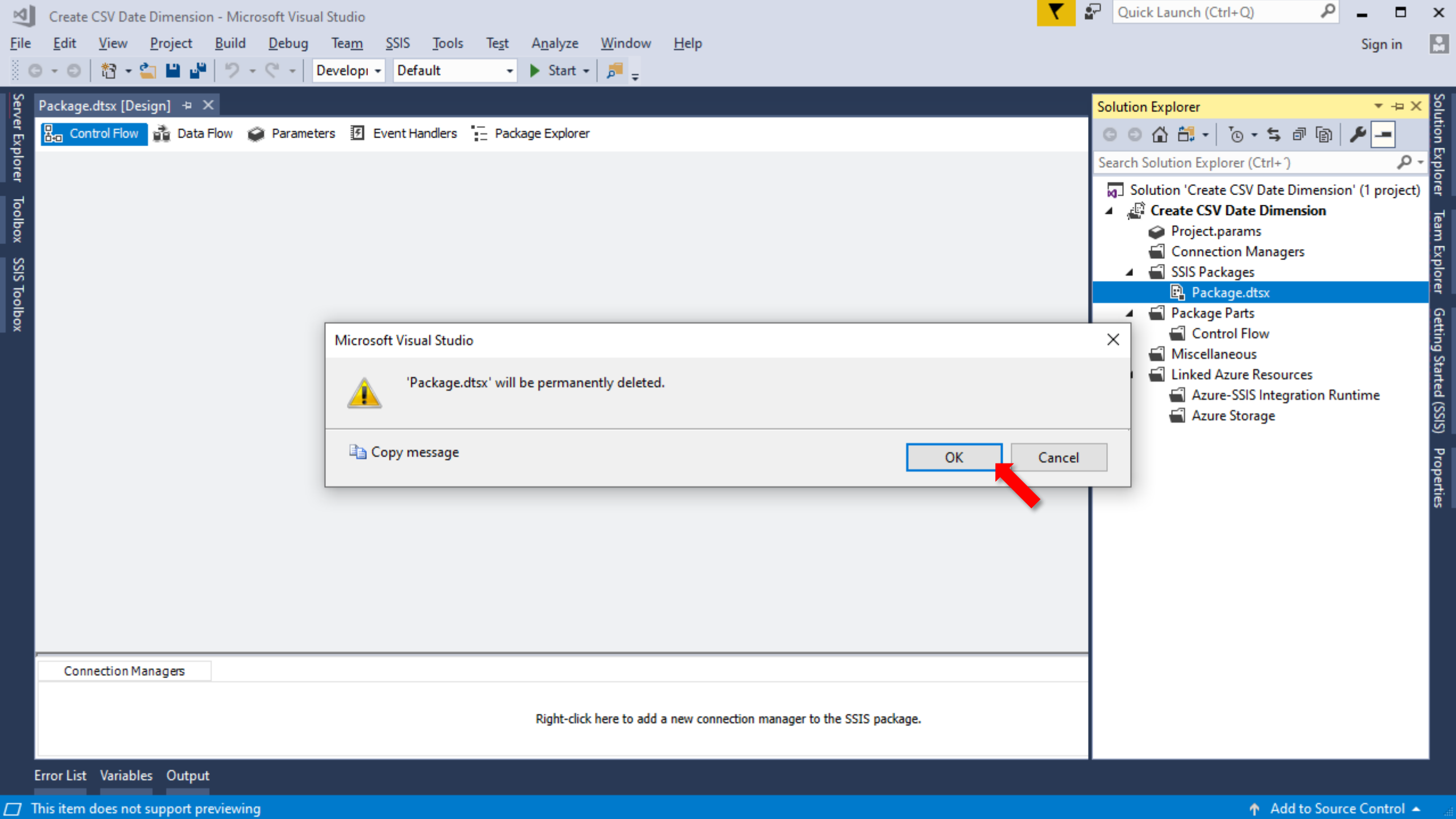


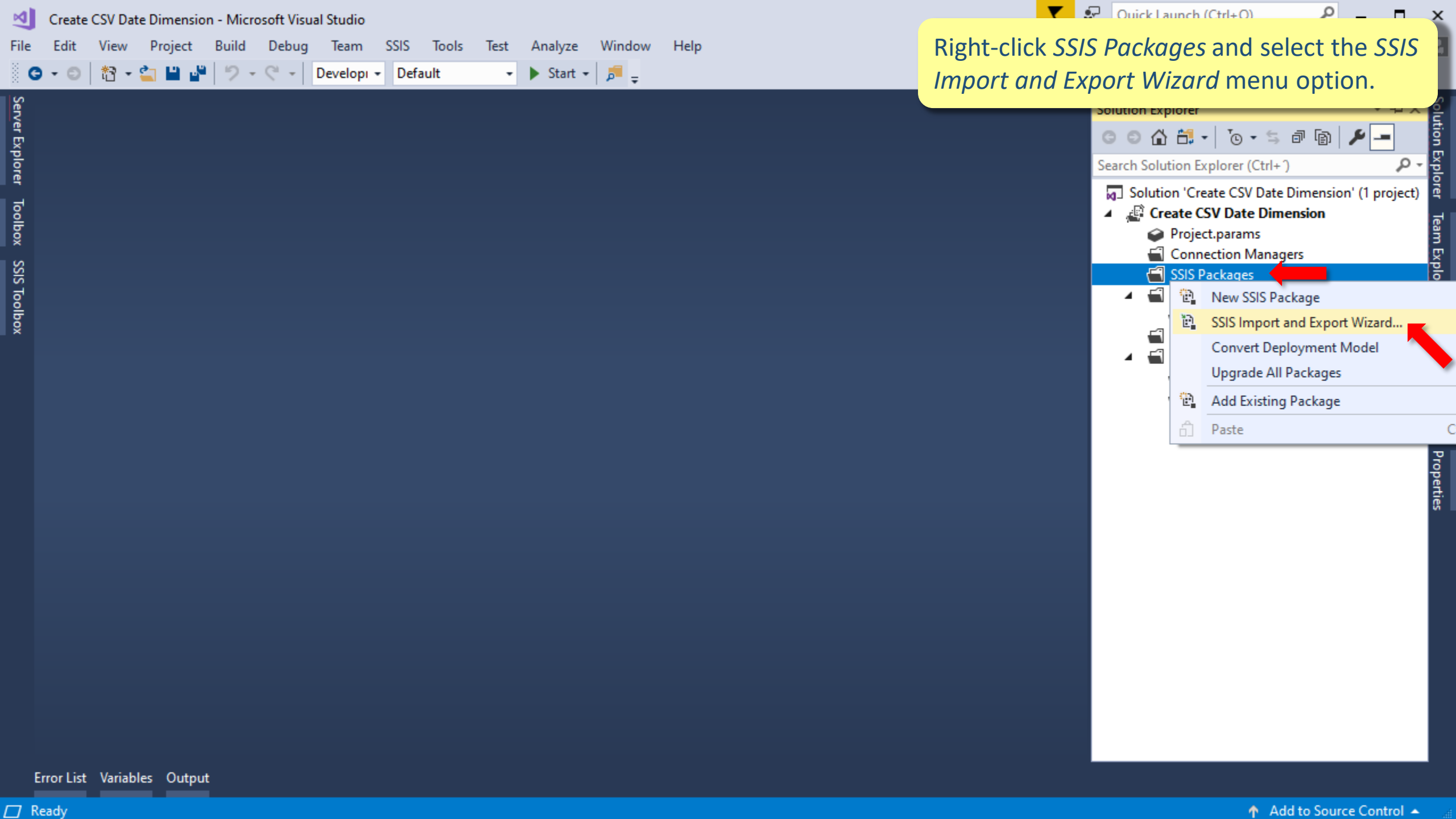
The *Date* dimension could have been created directly in the *Data Mart* database (instead of the Staging Area). However, the *Date* dimension defined for the *Data Mart* project has different needs. It uses much less attributes and some of them are not present in the dimension just generated (as you'll see next). From this *Date* dimension we will create a *CSV* file and complete this file with the attributes that are still missing for the *Date* dimension. In the future, you can use this *CSV* file in any Data Warehouse/Mart project to load the *Date* dimension table.


Start Page - Microsoft Visual Studio
File Edit View
Quick Launch (Ctrl+Q)
Navigate Backward
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Create a new project
Search for templates (Alt+S)
Recent project templates
Analysis Services Multidimensional and Data Mining Project
Integration Services Project
Blank Solution
All languages
All platforms
All project types
Integration Services Project (Azure-Enabled)
This project may be used for building high performance data integration and workflow solutions that can also be run/debugged on SSIS Platform-as-a-Service (PaaS) in Azure Data Factory.
Integration Services Project
This project may be used for building high performance data integration and workflow solutions that can be run on SSIS catalog, including extraction, transformation, and loading (ETL) operations for data warehousing.
Integration Services Import Project Wizard
A wizard that assists you in creating a new Integration Services (SSIS) project that is based on an existing one. Import from a project deployment file (.ispac extension) or from an Integration Services catalog on an instance of SQL Server.
Analysis Services Tabular Project
An Analysis Services project for creating tabular models.
Import from Server (Tabular)
Creates a tabular project by extracting the metadata from an existing tabular database on an Analysis Services server.
Import from PowerPivot
Next
Create a new Integration Services Project in Visual Studio.
Error List
Variable
Ready


Start Page - Microsoft Visual Studio
File Edit View
Quick Launch (Ctrl+Q)
Navigate Backward
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Configure your new project
Integration Services Project
Project name
Create CSV Date Dimension
Location
C:\Temp\ARMDD
...
Solution name
Create CSV Date Dimension
Place solution and project in the same directory
Project will be created in "C:\Temp\ARMDD\Create CSV Date Dimension\Create CSV Date Dimension\"
Back
Create
Name the project as *Create CSV Date Dimension*. The location can be anywhere you want.
Get
Build your f
Maximize y
Take advant
reliable web
Develop mo
Produce mo
Rec
Today
Crea
D:\Te
Data
D:\Te
Yesterday
Error List
Variables
Ready


Create CSV Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Delete the default package *Package.dtsx* given that it won't be used.
Package.dtsx [Design]
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'Create CSV Date Dimension' (1 project)
Create CSV Date Dimension
Project.params
Connection Managers
SSIS Packages
Package.dtsx
Package Parts
Miscellaneous
Linked Azure Re
Azure-SSIS I
Azure Storag
Set as StartUp Object
Assess Package for Execu
Execute Package in Azure
Execute Package
Deploy Package
Open
View Code
View Designer
Entry-point Package
Scope to This
New Solution Explorer Vi
Exclude From Project
Cut
Copy
Delete
Rename
Properties
Connection Managers
Right-click here to add a new connection manager to the SSIS package.
Error List
Variables
Output
This item does not support previewing
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Team Explorer


Create CSV Date Dimension - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Sign in
Start
Package.dtsx [Design]
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'Create CSV Date Dimension' (1 project)
Create CSV Date Dimension
Project.params
Connection Managers
SSIS Packages
Package.dtsx
Package Parts
Control Flow
Miscellaneous
Linked Azure Resources
Azure-SSIS Integration Runtime
Azure Storage
Microsoft Visual Studio
'Package.dtsx' will be permanently deleted.
Copy message
OK
Cancel
Connection Managers
Right-click here to add a new connection manager to the SSIS package.
Error List
Variables
Output
This item does not support previewing
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties


Create CSV Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Start
Server Explorer
Toolbox
SSIS Toolbox
Right-click *SSIS Packages* and select the *SSIS Import and Export Wizard* menu option.
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'Create CSV Date Dimension' (1 project)
Create CSV Date Dimension
Project.params
Connection Managers
SSIS Packages
New SSIS Package
SSIS Import and Export Wizard...
Convert Deployment Model
Upgrade All Packages
Add Existing Package
Paste
Team Explorer
Properties
Error List
Variables
Output
Ready
Add to Source Control

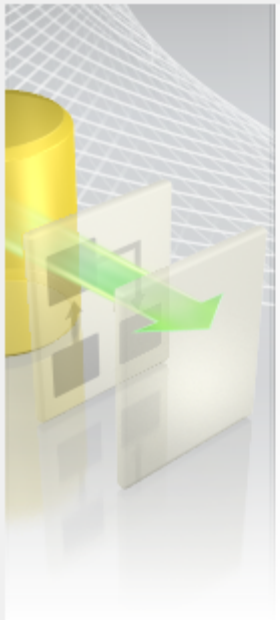
Create CSV Date Dimension - Microsoft Visual Studio

File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help

Quick Launch (Ctrl+Q)

A wizards helps to create a *SQL Server Import and Export* package.

SQL Server Import and Export Wizard



Welcome to SQL Server Import and Export Wizard

This wizard helps you to create simple packages that import and export data between many popular data formats including databases, spreadsheets, and text files. The wizard can also create the destination database and the tables into which the data is inserted.

To move or copy databases and their objects from one server instance to another, cancel this wizard and use the Copy Database Wizard instead. The Copy Database Wizard is available in SQL Server Management Studio.

☐ Do not show this starting page again.

Help | < Back | Next > | Finish >>| | Cancel

Solution Explorer

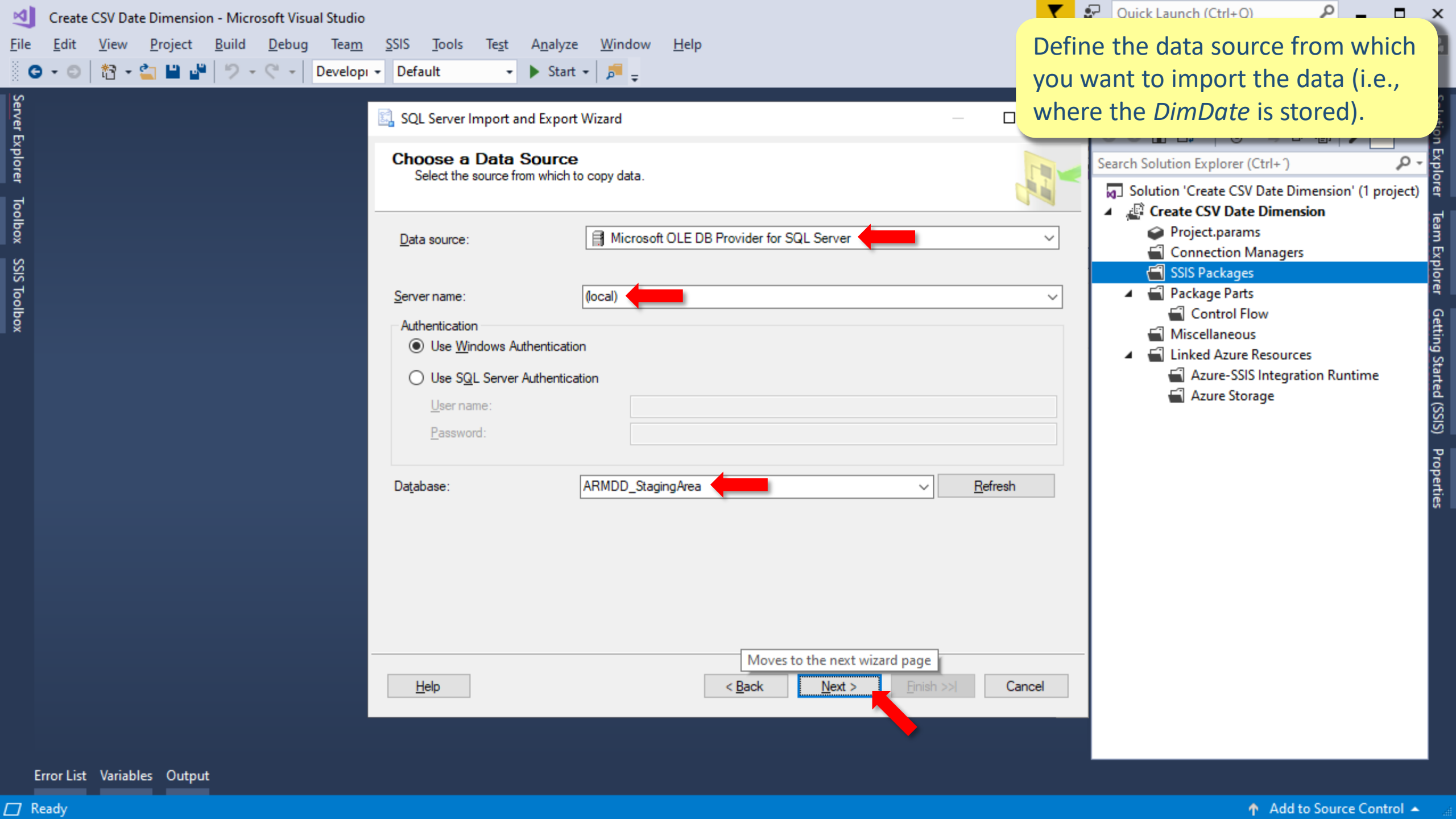
Search Solution Explorer (Ctrl+;)

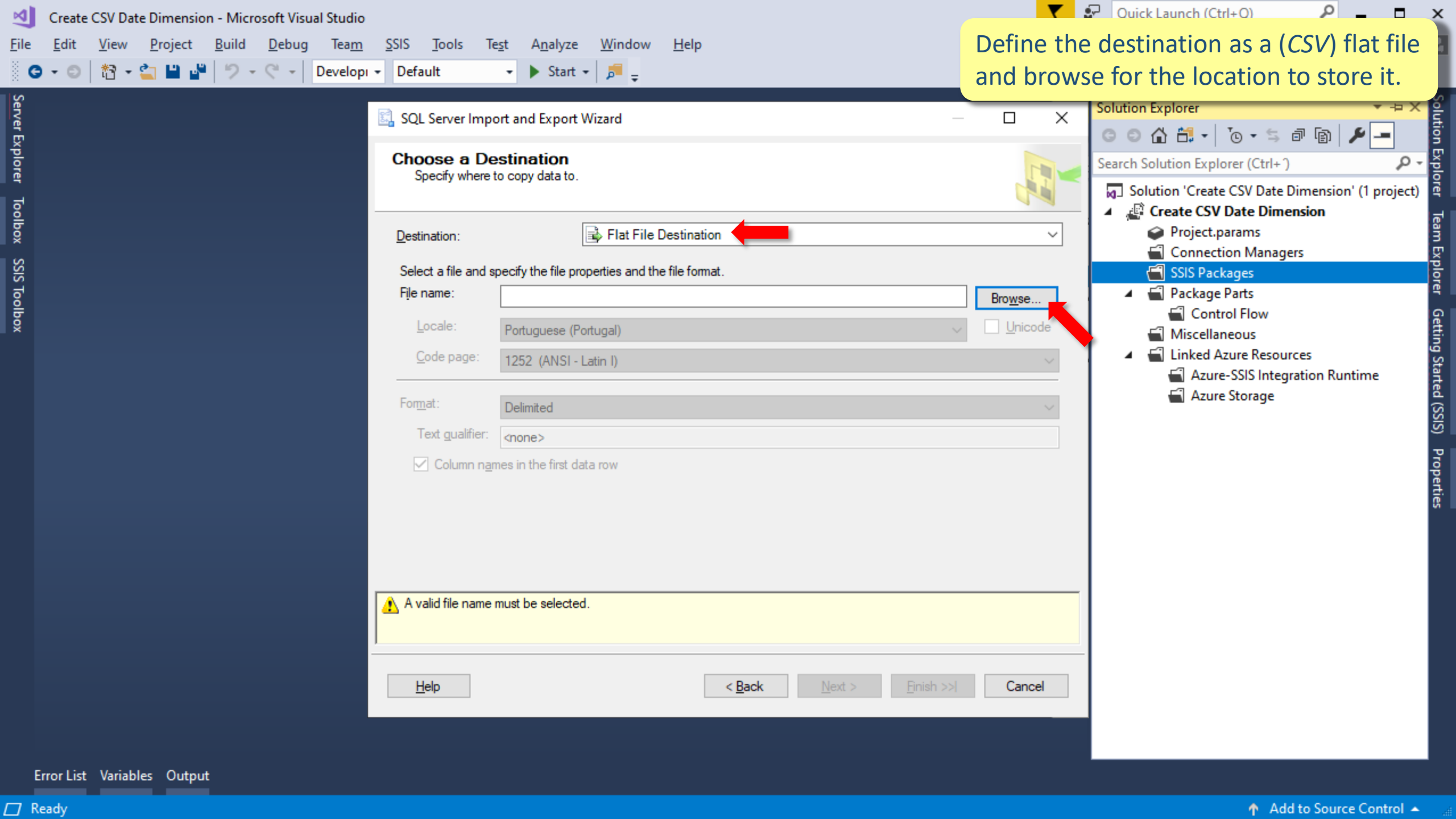
- Solution 'Create CSV Date Dimension' (1 project)
  - **Create CSV Date Dimension**
    - Project.params
    - Connection Managers
    - SSIS Packages
    - Package Parts
      - Control Flow
    - Miscellaneous
    - Linked Azure Resources
      - Azure-SSIS Integration Runtime
      - Azure Storage

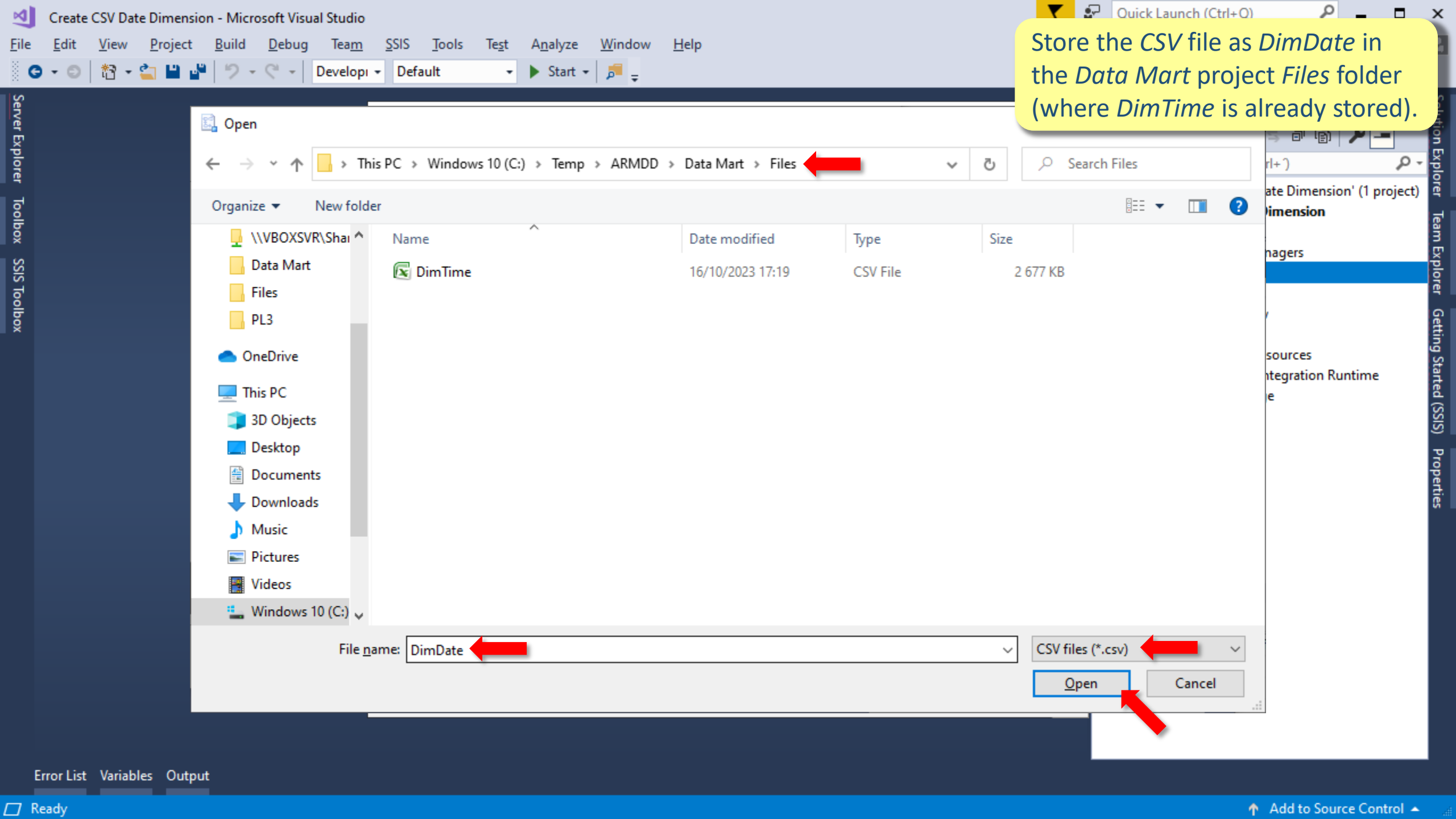
Server Explorer | Toolbox | SSIS Toolbox | Team Explorer | Getting Started (SSIS) | Properties

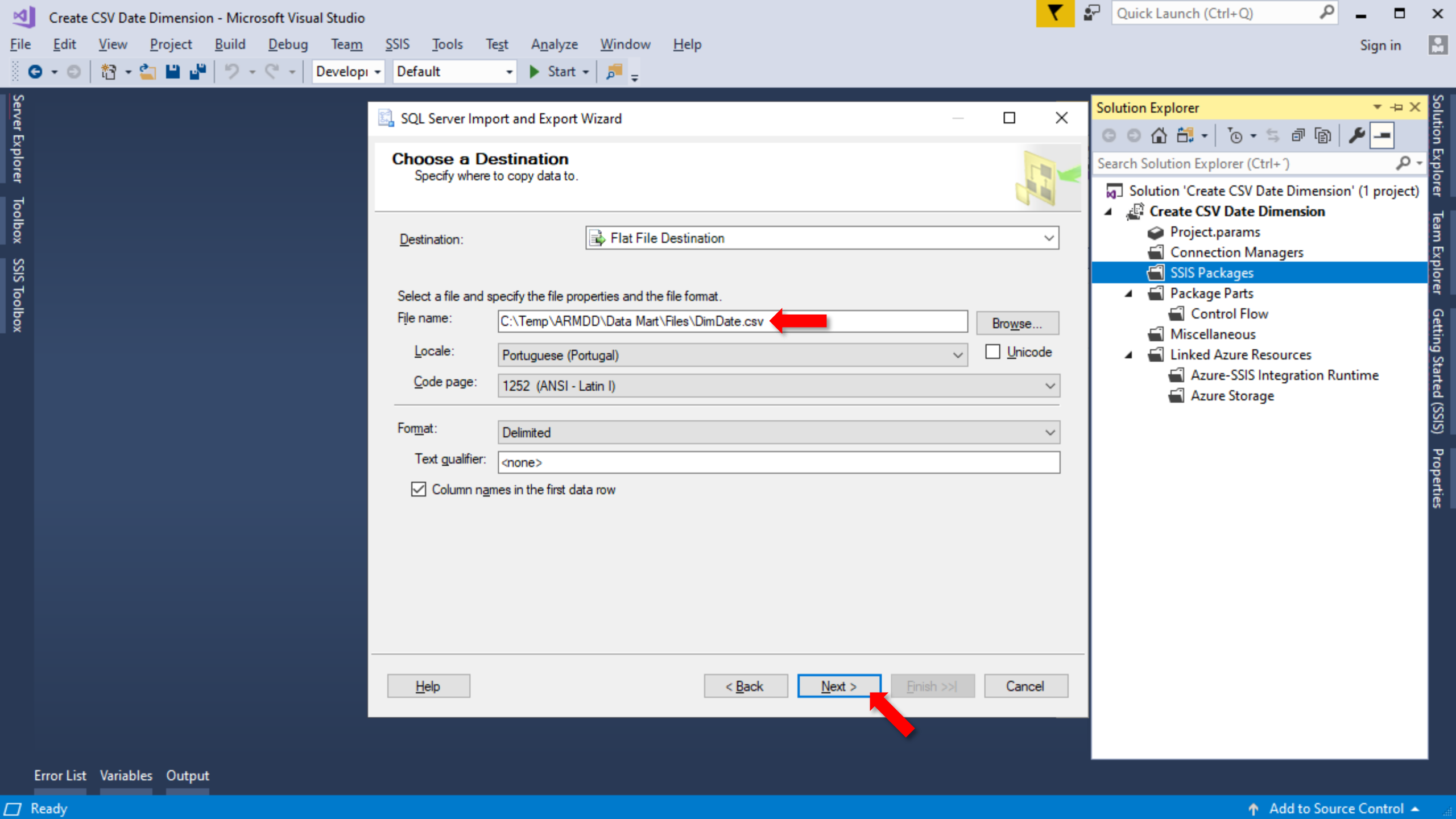
Error List | Variables | Output

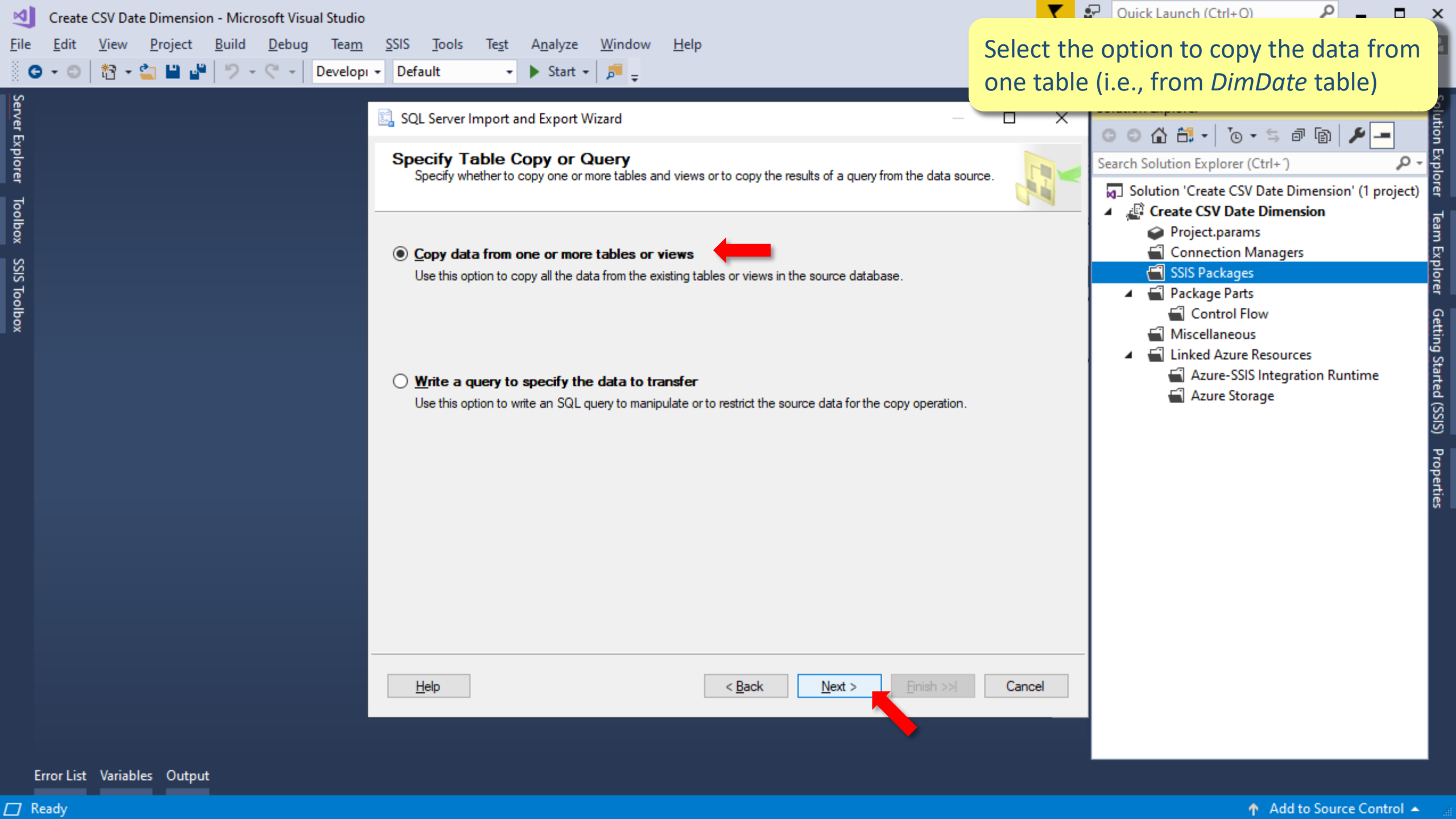
Ready | Add to Source Control

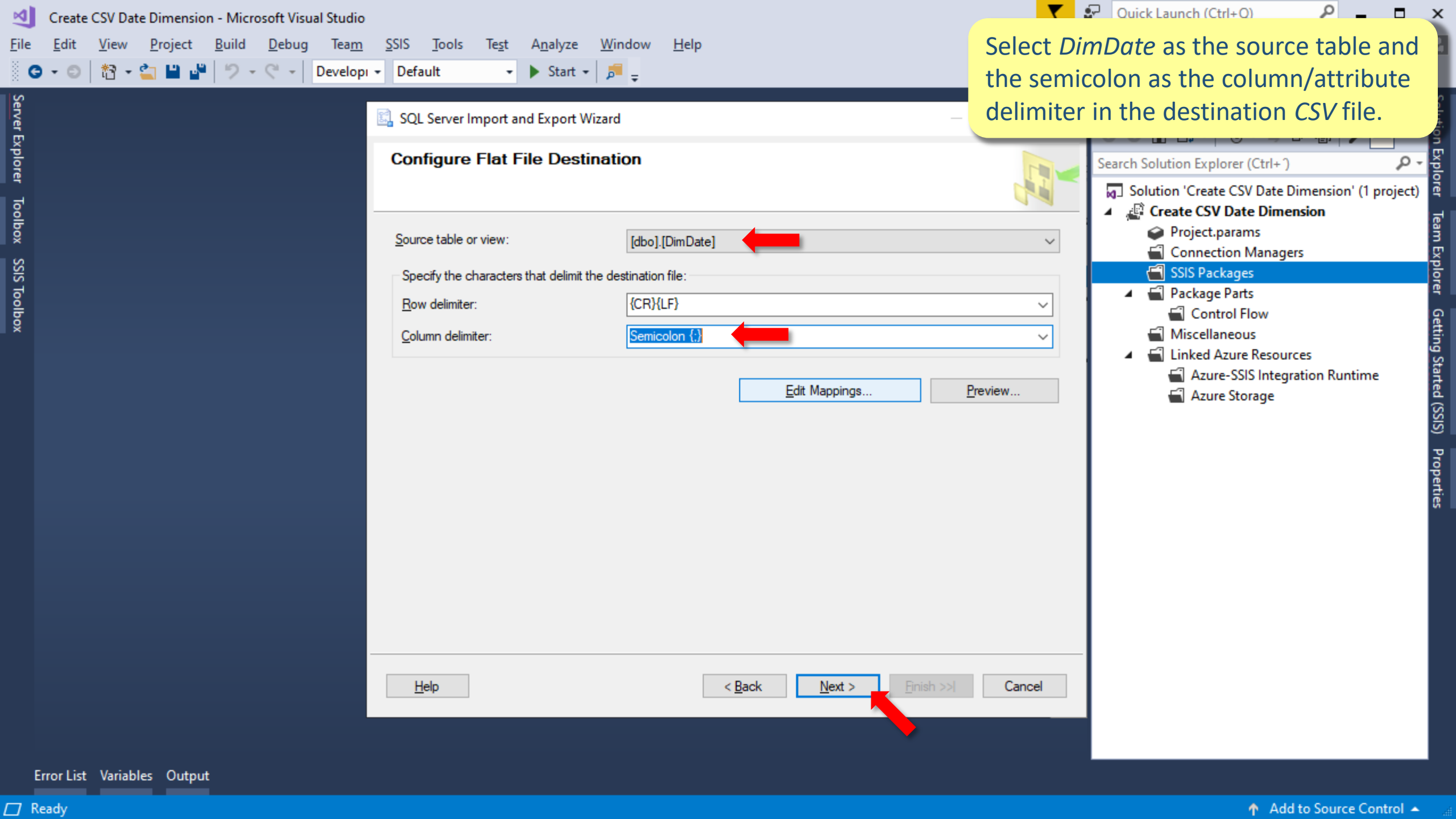

Create CSV Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Define the data source from which you want to import the data (i.e., where the *DimDate* is stored).
SQL Server Import and Export Wizard
Choose a Data Source
Select the source from which to copy data.
Data source:
Microsoft OLE DB Provider for SQL Server
Server name:
(local)
Authentication
Use Windows Authentication
Use SQL Server Authentication
User name:
Password:
Database:
ARMDD_StagingArea
Refresh
Moves to the next wizard page
Help
< Back
Next >
Finish >>|
Cancel
Search Solution Explorer (Ctrl+;)
Solution 'Create CSV Date Dimension' (1 project)
Create CSV Date Dimension
Project.params
Connection Managers
SSIS Packages
Package Parts
Control Flow
Miscellaneous
Linked Azure Resources
Azure-SSIS Integration Runtime
Azure Storage
Server Explorer
Toolbox
SSIS Toolbox
Team Explorer
Getting Started (SSIS)
Properties
Error List
Variables
Output
Ready
Add to Source Control

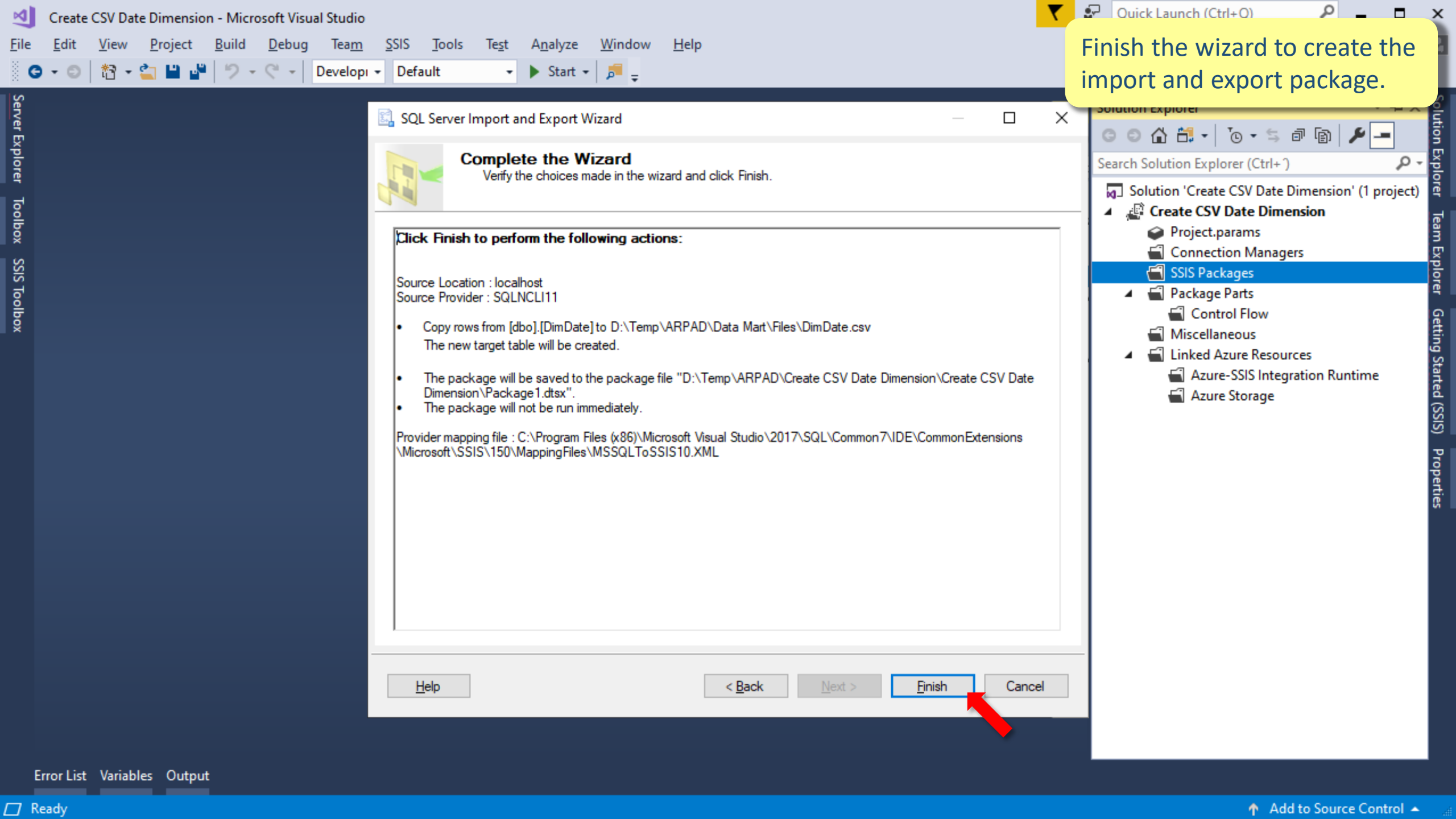

Create CSV Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Define the destination as a (*CSV*) flat file and browse for the location to store it.
SQL Server Import and Export Wizard
Choose a Destination
Specify where to copy data to.
Destination:
Flat File Destination
Select a file and specify the file properties and the file format.
File name:
Browse...
Locale:
Portuguese (Portugal)
Unicode
Code page:
1252 (ANSI - Latin I)
Format:
Delimited
Text qualifier:
<none>
Column names in the first data row
A valid file name must be selected.
Help
< Back
Next >
Finish >>|
Cancel
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'Create CSV Date Dimension' (1 project)
Create CSV Date Dimension
Project.params
Connection Managers
SSIS Packages
Package Parts
Control Flow
Miscellaneous
Linked Azure Resources
Azure-SSIS Integration Runtime
Azure Storage
Server Explorer
Toolbox
SSIS Toolbox
Team Explorer
Getting Started (SSIS)
Properties
Error List
Variables
Output
Ready
Add to Source Control

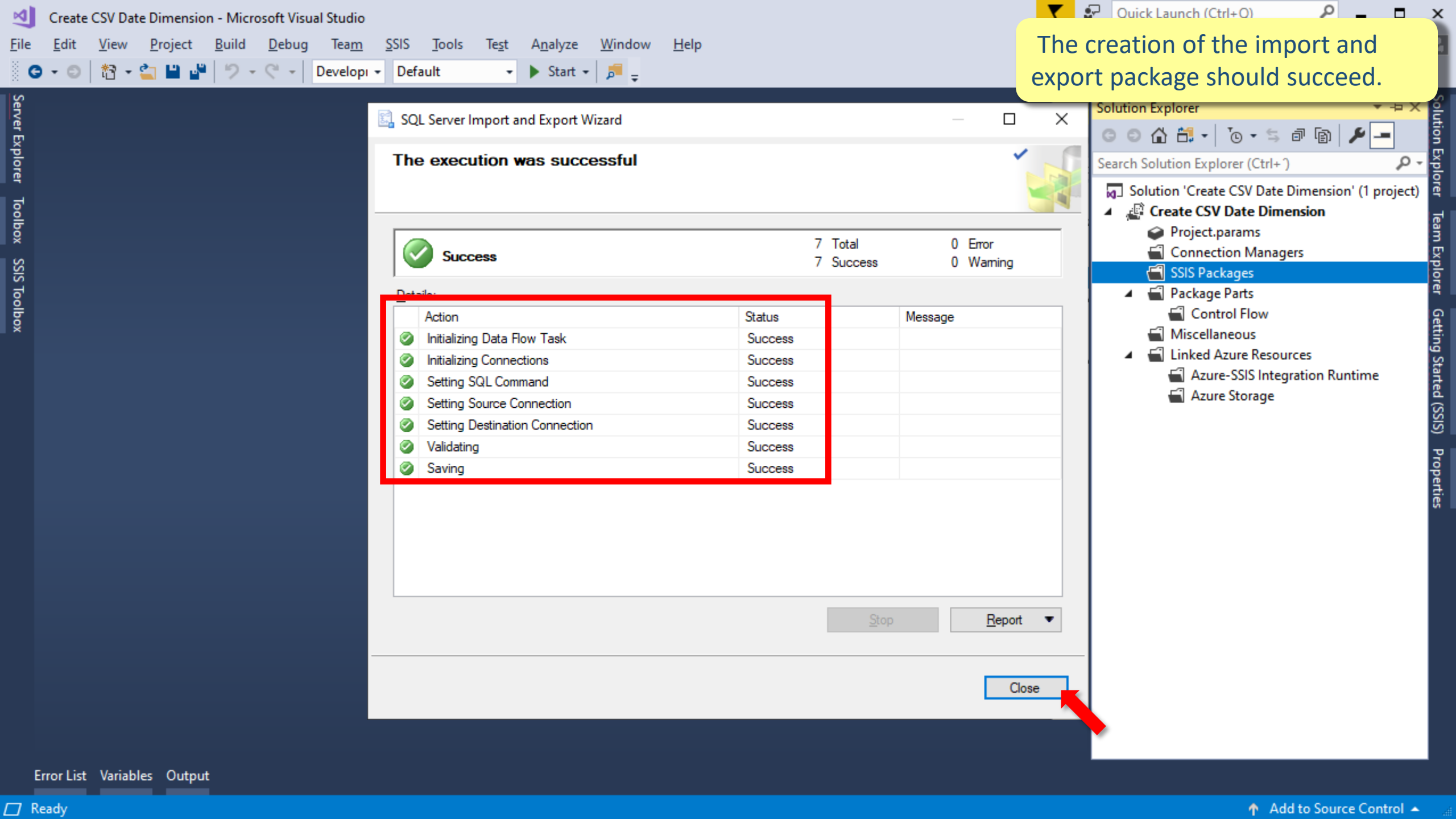

Create CSV Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Store the *CSV* file as *DimDate* in the *Data Mart* project *Files* folder (where *DimTime* is already stored).
Open
This PC › Windows 10 (C:) › Temp › ARMDD › Data Mart › Files
Search Files
Organize
New folder
Name
Date modified
Type
Size
DimTime
16/10/2023 17:19
CSV File
2 677 KB
\\VBOXSVR\Shar
Data Mart
Files
PL3
OneDrive
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Windows 10 (C:)
File name:
DimDate
CSV files (*.csv)
Open
Cancel
Error List
Variables
Output
Ready
Add to Source Control

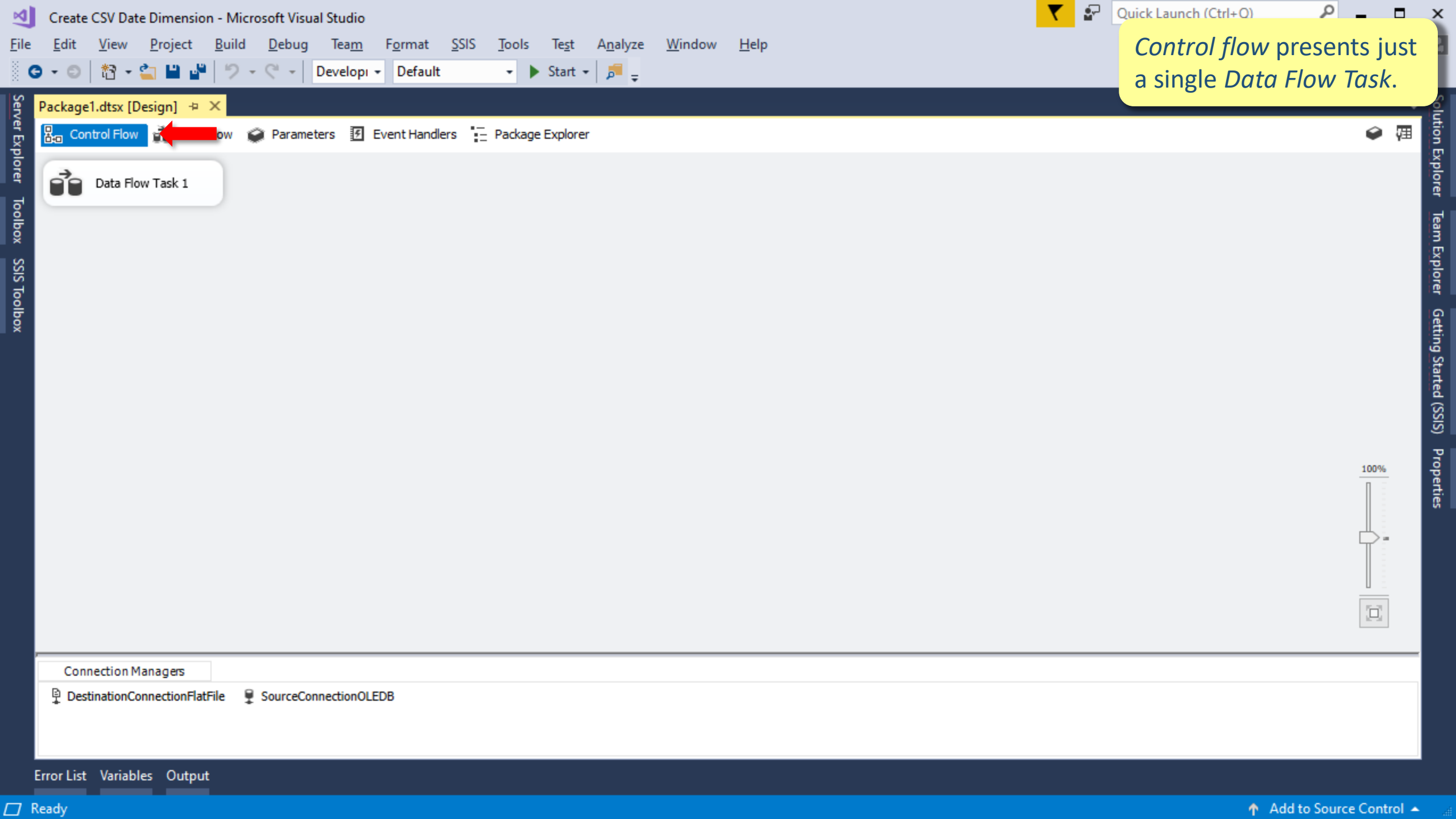

Create CSV Date Dimension - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Sign in
Default
Start
Server Explorer
Toolbox
SSIS Toolbox
SQL Server Import and Export Wizard
Choose a Destination
Specify where to copy data to.
Destination:
Flat File Destination
Select a file and specify the file properties and the file format.
File name:
C:\Temp\ARMDD\Data Mart\Files\DimDate.csv
Browse...
Locale:
Portuguese (Portugal)
Unicode
Code page:
1252 (ANSI - Latin I)
Format:
Delimited
Text qualifier:
<none>
Column names in the first data row
Help
< Back
Next >
Finish >>|
Cancel
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'Create CSV Date Dimension' (1 project)
Create CSV Date Dimension
Project.params
Connection Managers
SSIS Packages
Package Parts
Control Flow
Miscellaneous
Linked Azure Resources
Azure-SSIS Integration Runtime
Azure Storage
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties
Error List
Variables
Output
Ready
Add to Source Control


Create CSV Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Start
Select the option to copy the data from one table (i.e., from *DimDate* table)
SQL Server Import and Export Wizard
Specify Table Copy or Query
Specify whether to copy one or more tables and views or to copy the results of a query from the data source.
Copy data from one or more tables or views
Use this option to copy all the data from the existing tables or views in the source database.
Write a query to specify the data to transfer
Use this option to write an SQL query to manipulate or to restrict the source data for the copy operation.
Help
< Back
Next >
Finish >>|
Cancel
Search Solution Explorer (Ctrl+;)
Solution 'Create CSV Date Dimension' (1 project)
Create CSV Date Dimension
Project.params
Connection Managers
SSIS Packages
Package Parts
Control Flow
Miscellaneous
Linked Azure Resources
Azure-SSIS Integration Runtime
Azure Storage
Server Explorer
Toolbox
SSIS Toolbox
Team Explorer
Getting Started (SSIS)
Properties
Error List
Variables
Output
Ready
Add to Source Control

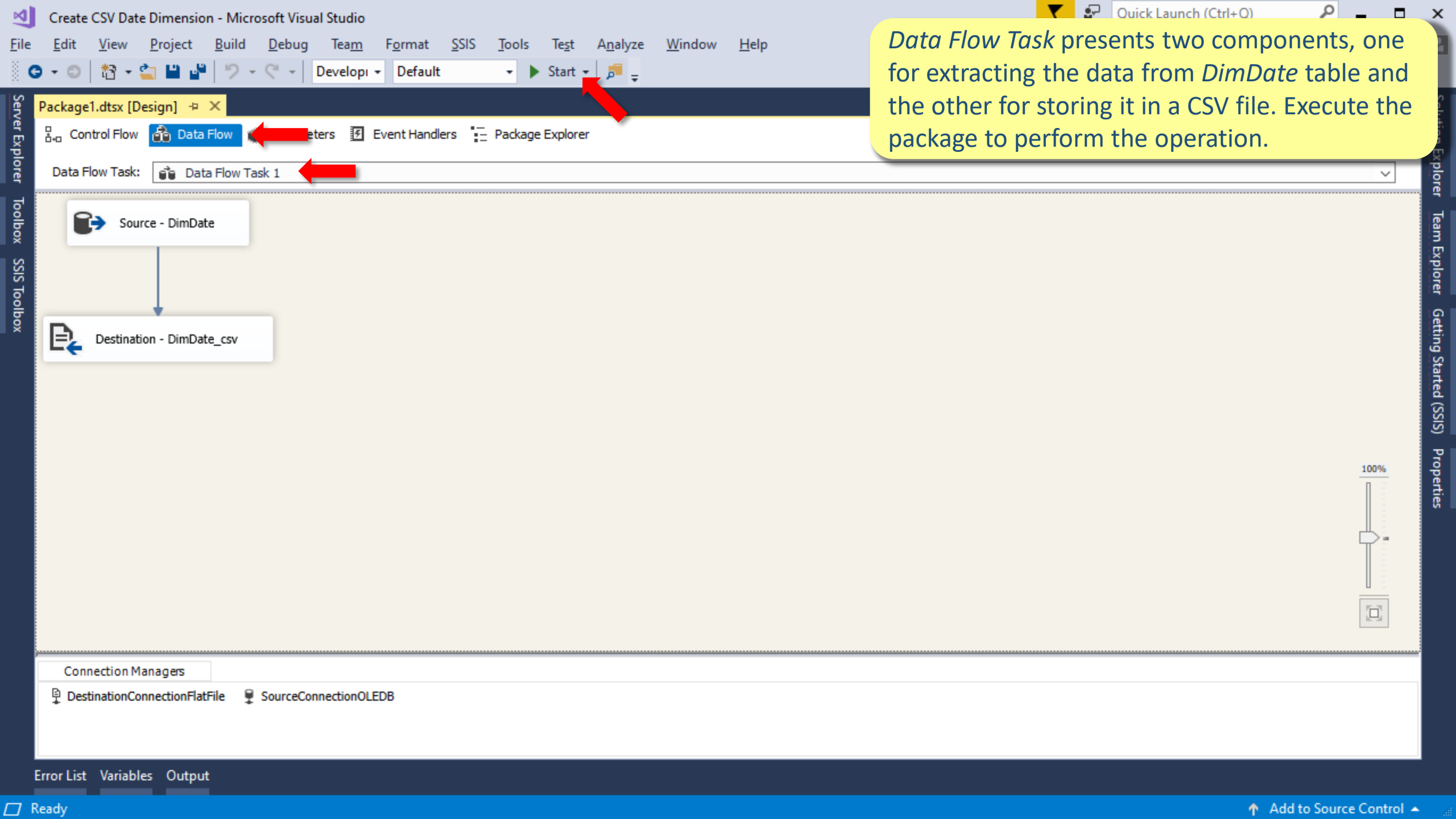

Create CSV Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Start
Select *DimDate* as the source table and the semicolon as the column/attribute delimiter in the destination *CSV* file.
SQL Server Import and Export Wizard
Configure Flat File Destination
Source table or view:
[dbo].[DimDate]
Specify the characters that delimit the destination file:
Row delimiter:
{CR}{LF}
Column delimiter:
Semicolon {;}
Edit Mappings...
Preview...
Help
< Back
Next >
Finish >>|
Cancel
Search Solution Explorer (Ctrl+;)
Solution 'Create CSV Date Dimension' (1 project)
Create CSV Date Dimension
Project.params
Connection Managers
SSIS Packages
Package Parts
Control Flow
Miscellaneous
Linked Azure Resources
Azure-SSIS Integration Runtime
Azure Storage
Server Explorer
Toolbox
SSIS Toolbox
Team Explorer
Getting Started (SSIS)
Properties
Error List
Variables
Output
Ready
Add to Source Control


Create CSV Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Finish the wizard to create the import and export package.
SQL Server Import and Export Wizard
Complete the Wizard
Verify the choices made in the wizard and click Finish.
Click Finish to perform the following actions:
Source Location : localhost
Source Provider : SQLNCLI11
Copy rows from [dbo].[DimDate] to D:\Temp\ARPAD\Data Mart\Files\DimDate.csv
The new target table will be created.
The package will be saved to the package file "D:\Temp\ARPAD\Create CSV Date Dimension\Create CSV Date Dimension\Package1.dtsx".
The package will not be run immediately.
Provider mapping file : C:\Program Files (x86)\Microsoft Visual Studio\2017\SQL\Common7\IDE\CommonExtensions\Microsoft\SSIS\150\MappingFiles\MSSQLToSSIS10.XML
Help
< Back
Next >
Finish
Cancel
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'Create CSV Date Dimension' (1 project)
Create CSV Date Dimension
Project.params
Connection Managers
SSIS Packages
Package Parts
Control Flow
Miscellaneous
Linked Azure Resources
Azure-SSIS Integration Runtime
Azure Storage
Server Explorer
Toolbox
SSIS Toolbox
Team Explorer
Getting Started (SSIS)
Properties
Error List
Variables
Output
Ready
Add to Source Control

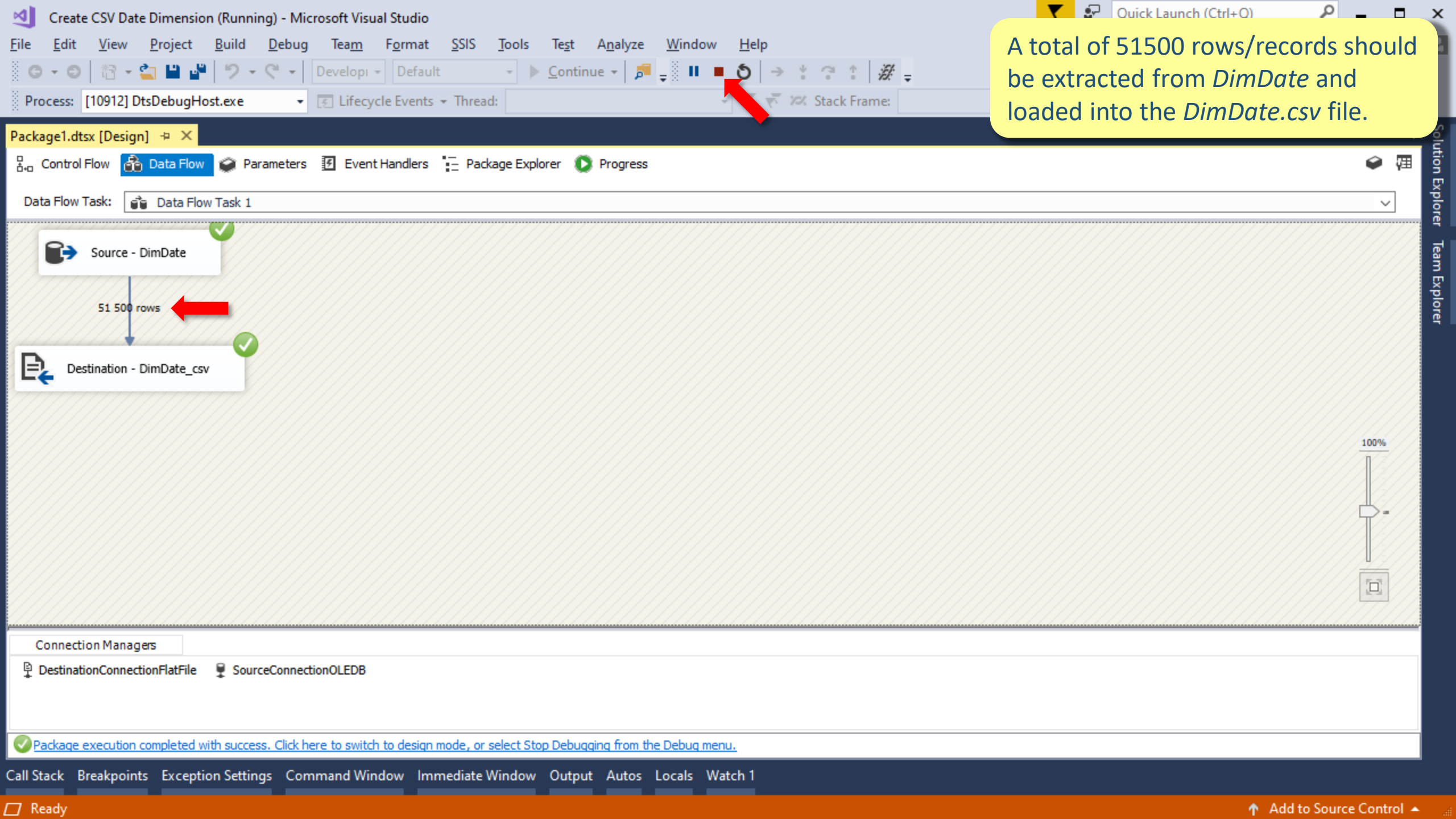

Create CSV Date Dimension - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
The creation of the import and export package should succeed.
SQL Server Import and Export Wizard
The execution was successful
Success
7 Total
7 Success
0 Error
0 Warning
Action
Status
Message
Initializing Data Flow Task
Initializing Connections
Setting SQL Command
Setting Source Connection
Setting Destination Connection
Validating
Saving
Success
Stop
Report
Close
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'Create CSV Date Dimension' (1 project)
Create CSV Date Dimension
Project.params
Connection Managers
SSIS Packages
Package Parts
Control Flow
Miscellaneous
Linked Azure Resources
Azure-SSIS Integration Runtime
Azure Storage
Server Explorer
Toolbox
SSIS Toolbox
Team Explorer
Getting Started (SSIS)
Properties
Error List
Variables
Output
Ready
Add to Source Control

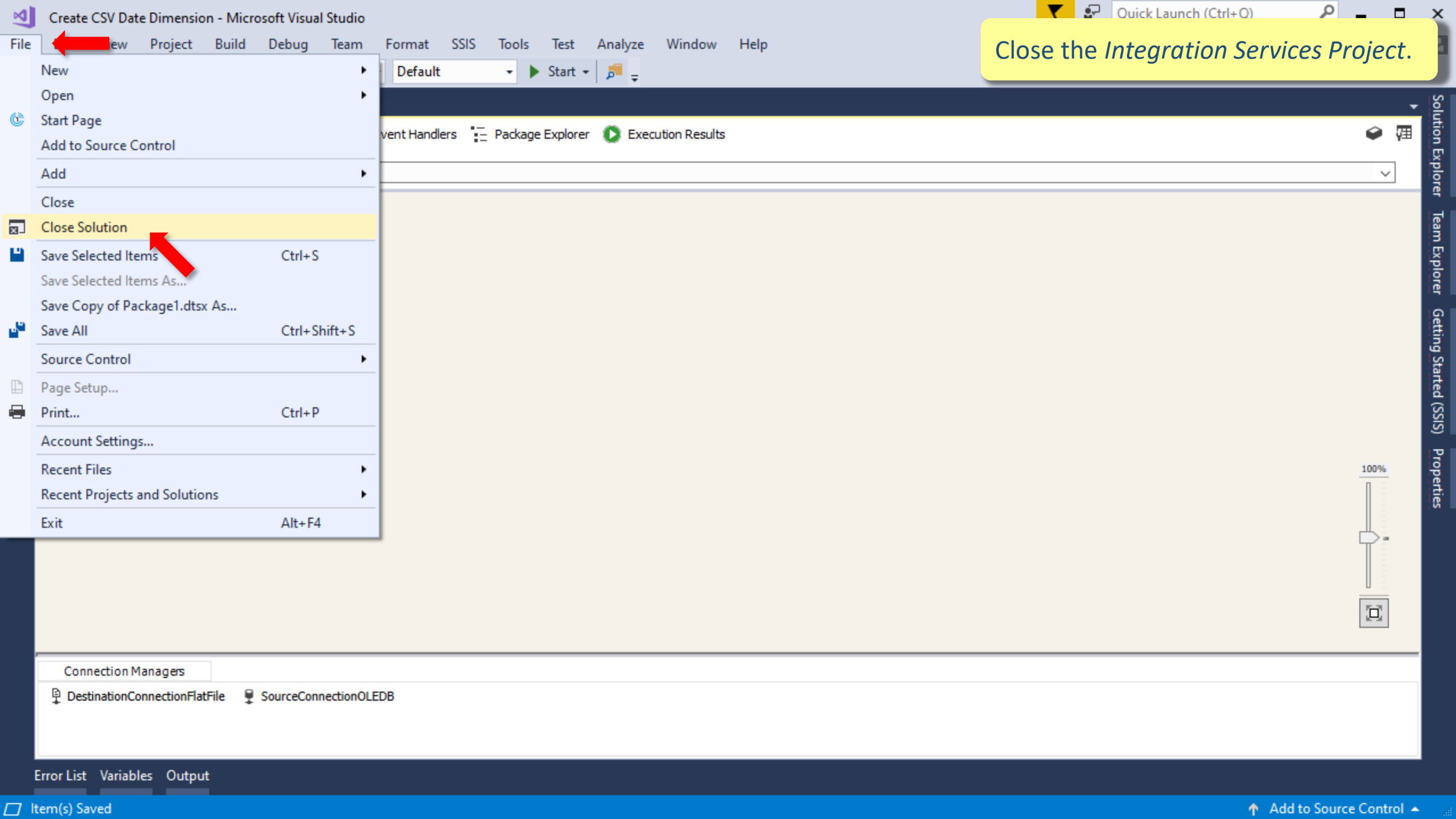


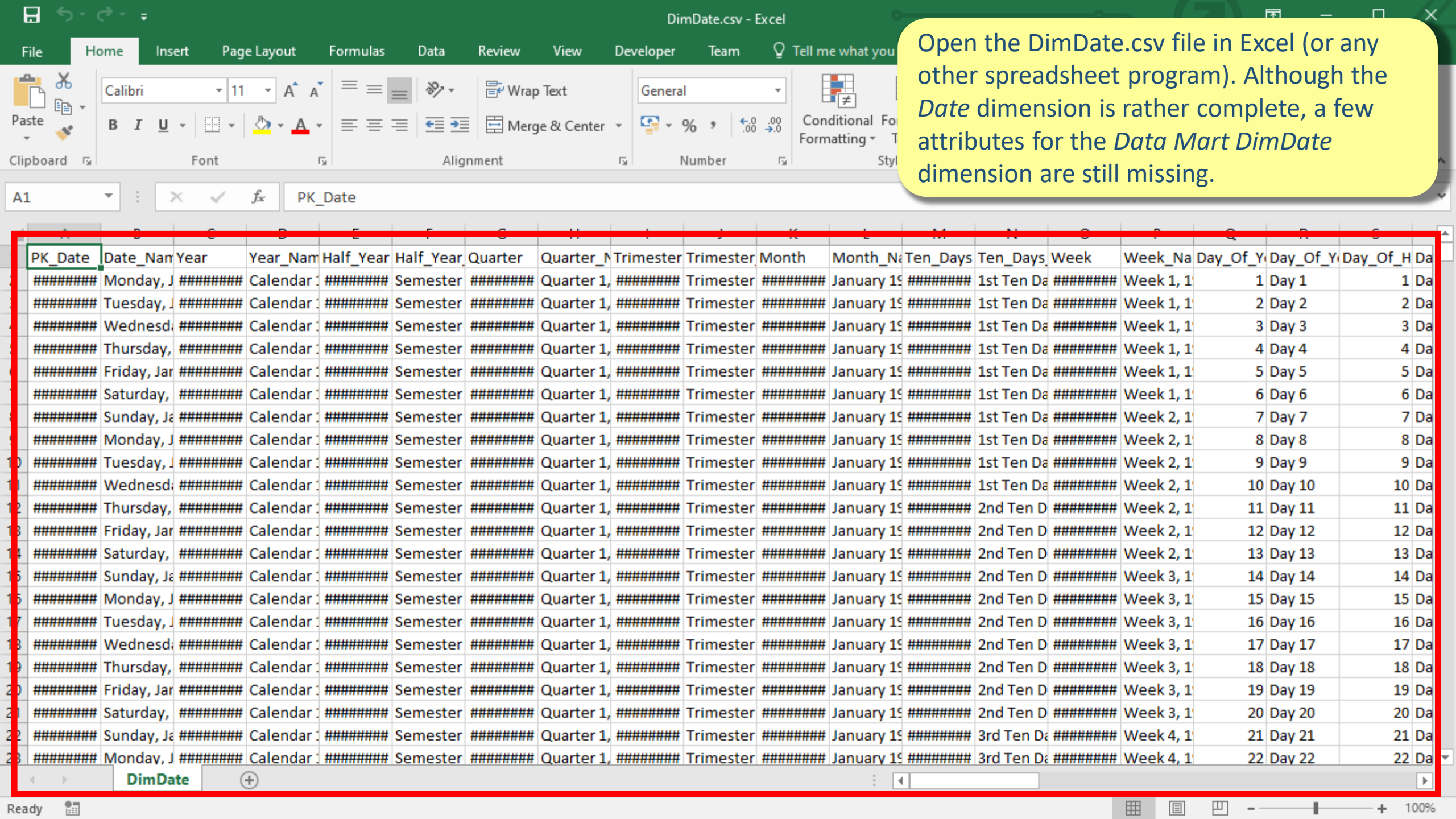
Control flow presents just a single *Data Flow Task*.

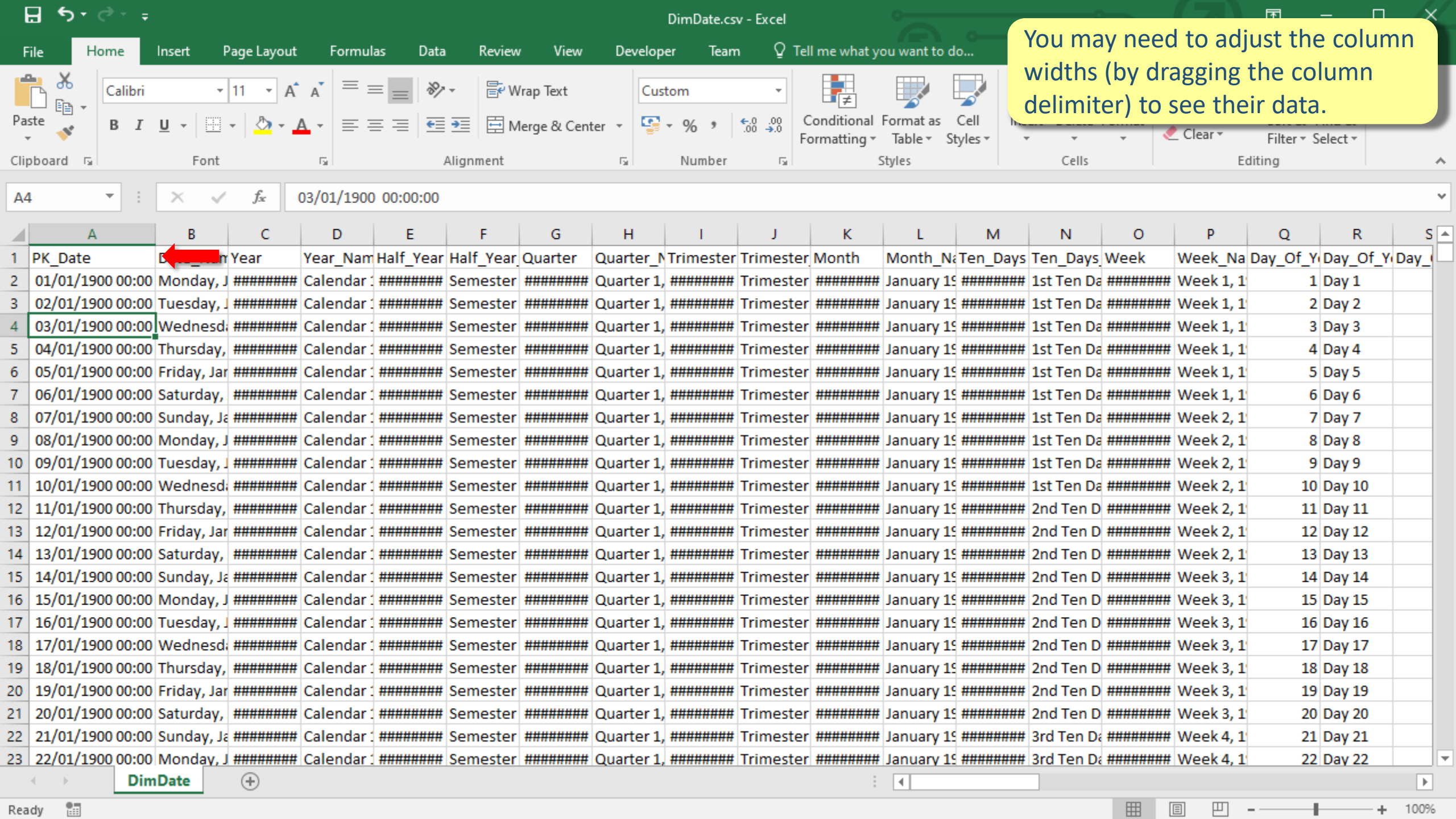


Data Flow Task presents two components, one for extracting the data from *DimDate* table and the other for storing it in a CSV file. Execute the package to perform the operation.

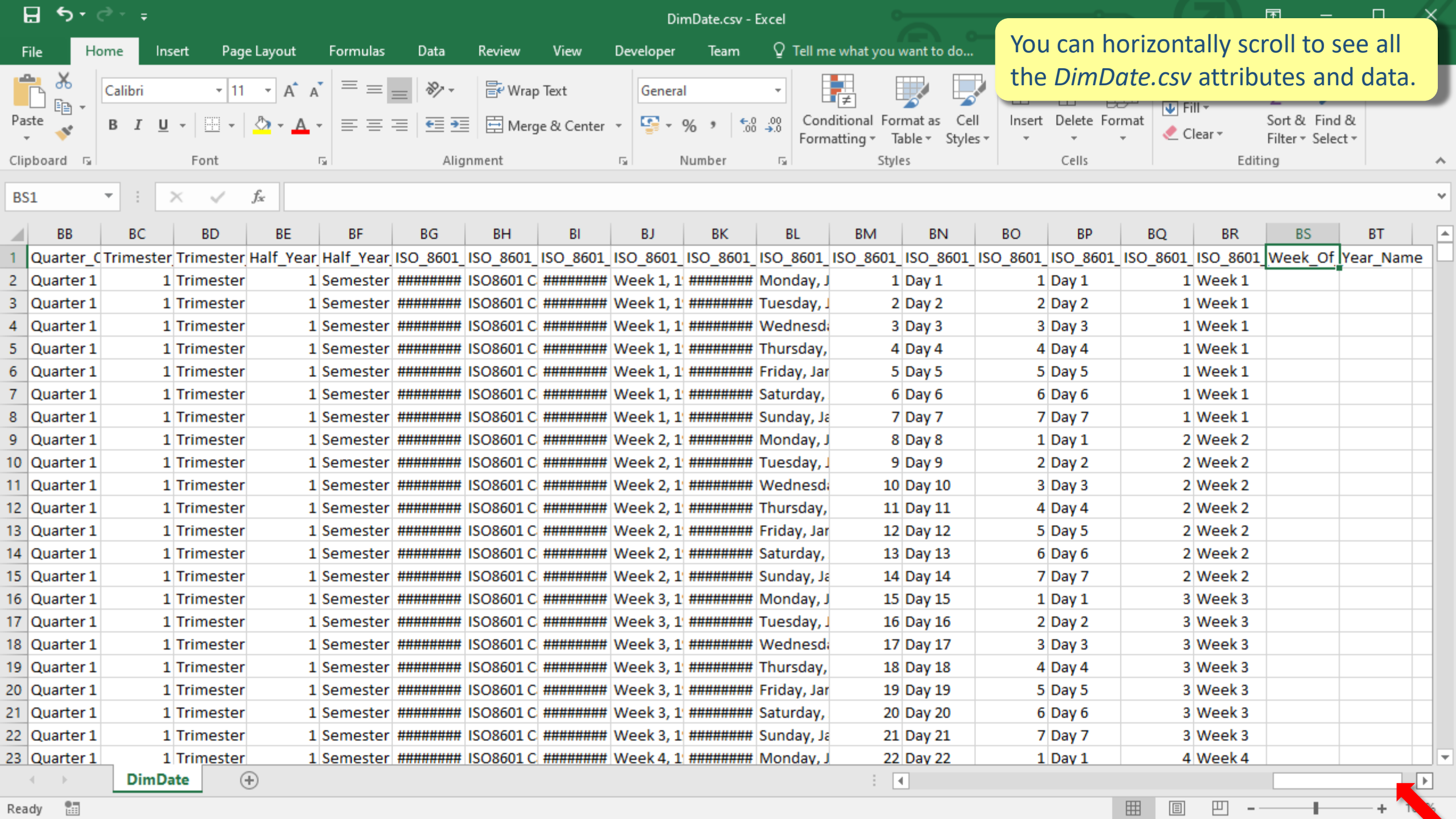

Create CSV Date Dimension (Running) - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Continue
Process: [10912] DtsDebugHost.exe
Lifecycle Events
Thread:
Stack Frame:
A total of 51500 rows/records should be extracted from DimDate and loaded into the DimDate.csv file.
Package1.dtsx [Design]
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Progress
Data Flow Task:
Data Flow Task 1
Source - DimDate
51 500 rows
Destination - DimDate_csv
100%
Connection Managers
DestinationConnectionFlatFile
SourceConnectionOLEDB
Package execution completed with success. Click here to switch to design mode, or select Stop Debugging from the Debug menu.
Call Stack
Breakpoints
Exception Settings
Command Window
Immediate Window
Output
Autos
Locals
Watch 1
Ready
Add to Source Control
Solution Explorer
Team Explorer


Create CSV Date Dimension - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File
Project
Build
Debug
Team
Format
SSIS
Tools
Test
Analyze
Window
Help
Default
Start
New
Open
Start Page
Add to Source Control
Add
Close
Close Solution
Save Selected Items Ctrl+S
Save Selected Items As...
Save Copy of Package1.dtsx As...
Save All Ctrl+Shift+S
Source Control
Page Setup...
Print... Ctrl+P
Account Settings...
Recent Files
Recent Projects and Solutions
Exit Alt+F4
Close the Integration Services Project.
vent Handlers
Package Explorer
Execution Results
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties
100%
Connection Managers
DestinationConnectionFlatFile
SourceConnectionOLEDB
Error List
Variables
Output
Item(s) Saved
Add to Source Control

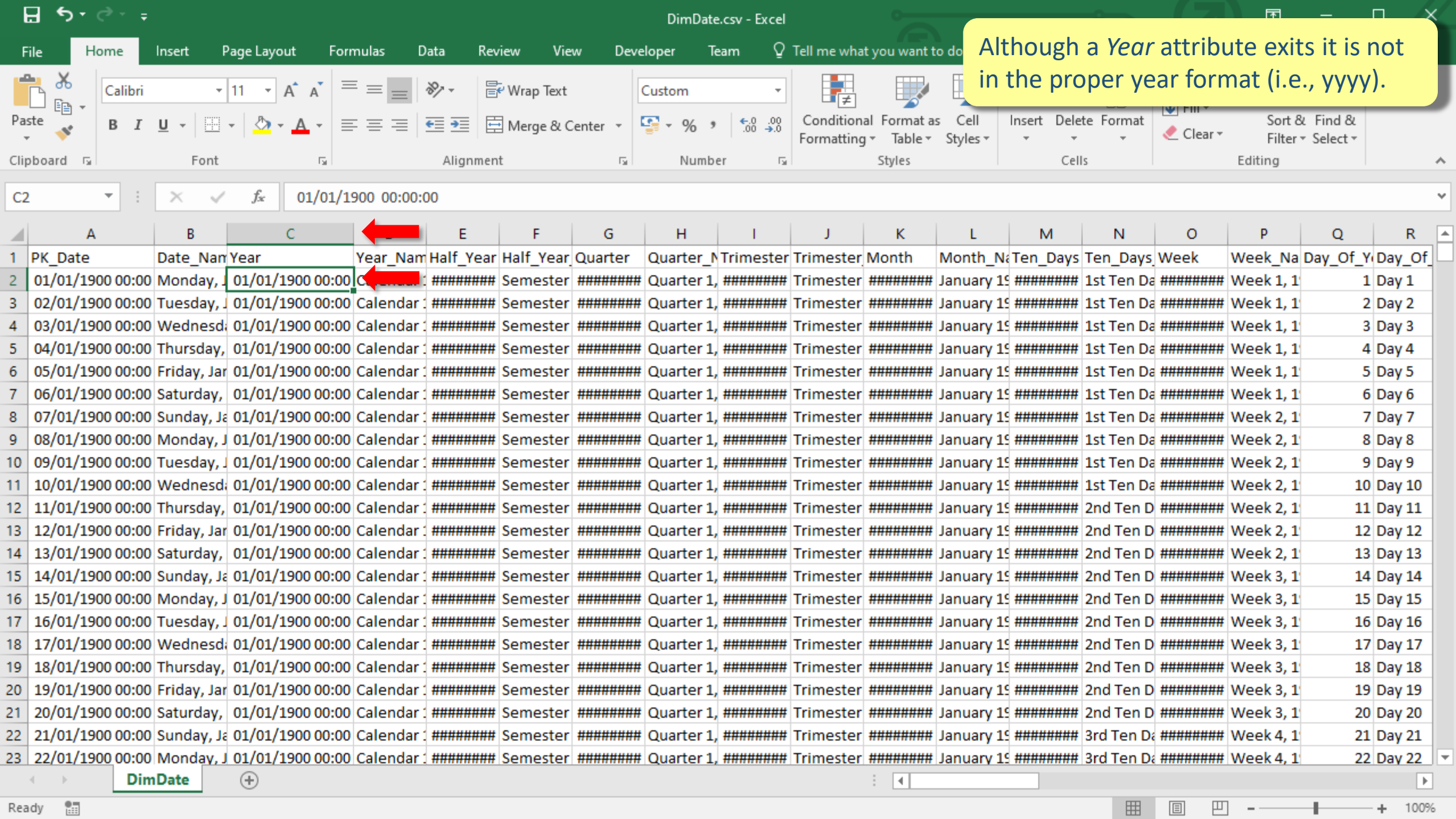

DimDate.csv - Excel
File
Home
Insert
Page Layout
Formulas
Data
Review
View
Developer
Team
Tell me what you
Paste
Calibri
11
Wrap Text
General
Merge & Center
Conditional Formatting
Clipboard
Font
Alignment
Number
A1
PK_Date
Open the DimDate.csv file in Excel (or any other spreadsheet program). Although the *Date* dimension is rather complete, a few attributes for the *Data Mart DimDate* dimension are still missing.
PK_Date
Date_Nam
Year
Year_Nam
Half_Year
Half_Year_
Quarter
Quarter_N
Trimester
Trimester_
Month
Month_Na
Ten_Days
Ten_Days_
Week
Week_Na
Day_Of_Y
Day_Of_Y
Day_Of_H
DimDate
Ready
100%

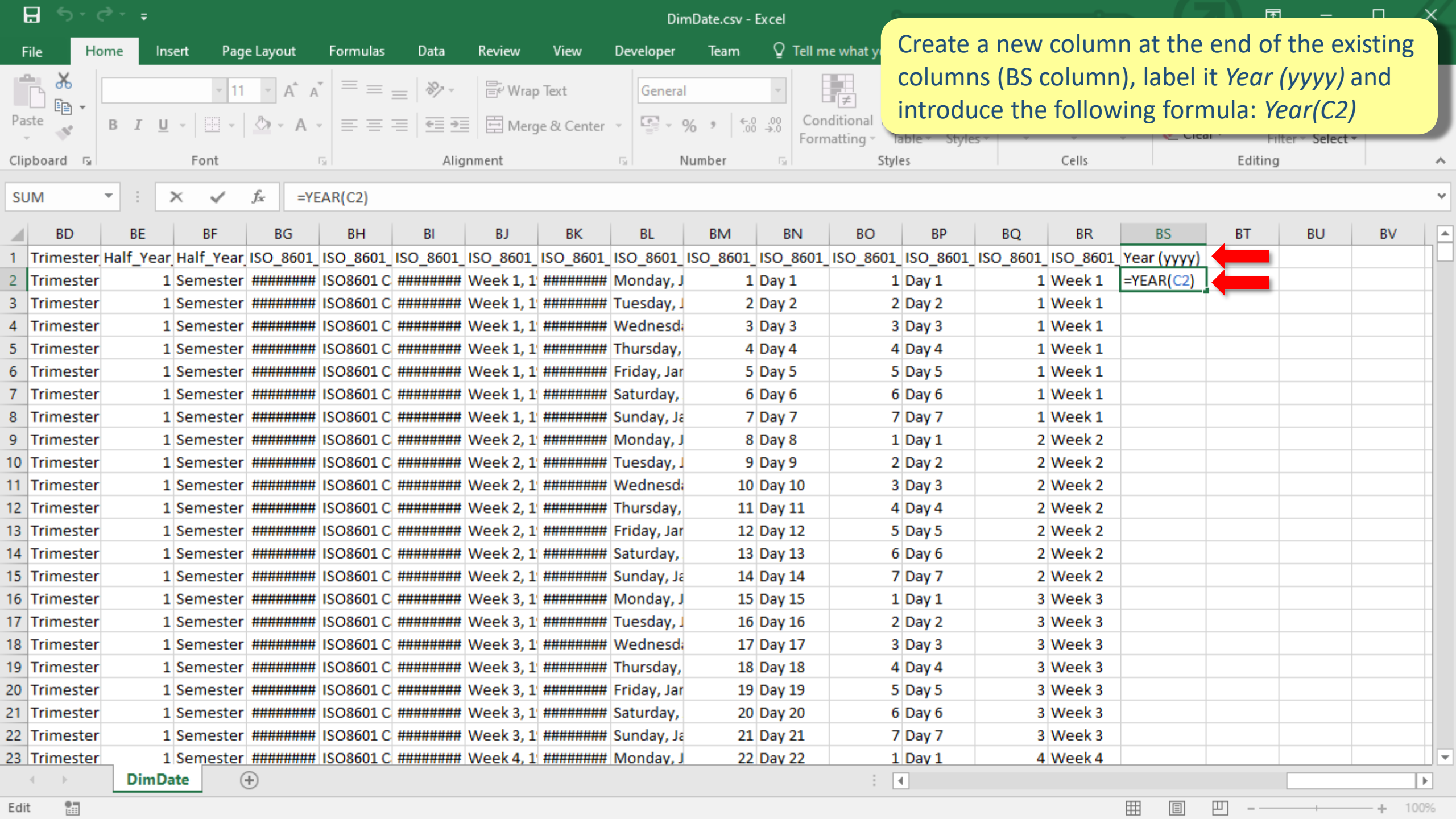


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	PK_Date	D	Year	Year_Nam	Half_Year	Half_Year_	Quarter	Quarter_N	Trimester	Trimester_	Month	Month_Na	Ten_Days	Ten_Days_	Week	Week_Na	Day_Of_Y	Day_Of_Y	Day_(
2	01/01/1900 00:00	Monday, J	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	1st Ten Da	########	Week 1, 1'	1	Day 1	
3	02/01/1900 00:00	Tuesday, J	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	1st Ten Da	########	Week 1, 1'	2	Day 2	
4	03/01/1900 00:00	Wednesda	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	1st Ten Da	########	Week 1, 1'	3	Day 3	
5	04/01/1900 00:00	Thursday,	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	1st Ten Da	########	Week 1, 1'	4	Day 4	
6	05/01/1900 00:00	Friday, Jar	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	1st Ten Da	########	Week 1, 1'	5	Day 5	
7	06/01/1900 00:00	Saturday,	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	1st Ten Da	########	Week 1, 1'	6	Day 6	
8	07/01/1900 00:00	Sunday, Ja	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	1st Ten Da	########	Week 2, 1'	7	Day 7	
9	08/01/1900 00:00	Monday, J	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	1st Ten Da	########	Week 2, 1'	8	Day 8	
10	09/01/1900 00:00	Tuesday, J	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	1st Ten Da	########	Week 2, 1'	9	Day 9	
11	10/01/1900 00:00	Wednesda	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	1st Ten Da	########	Week 2, 1'	10	Day 10	
12	11/01/1900 00:00	Thursday,	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	2nd Ten D	########	Week 2, 1'	11	Day 11	
13	12/01/1900 00:00	Friday, Jar	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	2nd Ten D	########	Week 2, 1'	12	Day 12	
14	13/01/1900 00:00	Saturday,	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	2nd Ten D	########	Week 2, 1'	13	Day 13	
15	14/01/1900 00:00	Sunday, Ja	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	2nd Ten D	########	Week 3, 1'	14	Day 14	
16	15/01/1900 00:00	Monday, J	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	2nd Ten D	########	Week 3, 1'	15	Day 15	
17	16/01/1900 00:00	Tuesday, J	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	2nd Ten D	########	Week 3, 1'	16	Day 16	
18	17/01/1900 00:00	Wednesda	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	2nd Ten D	########	Week 3, 1'	17	Day 17	
19	18/01/1900 00:00	Thursday,	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	2nd Ten D	########	Week 3, 1'	18	Day 18	
20	19/01/1900 00:00	Friday, Jar	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	2nd Ten D	########	Week 3, 1'	19	Day 19	
21	20/01/1900 00:00	Saturday,	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	2nd Ten D	########	Week 3, 1'	20	Day 20	
22	21/01/1900 00:00	Sunday, Ja	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	3rd Ten Da	########	Week 4, 1'	21	Day 21	
23	22/01/1900 00:00	Monday, J	########	Calendar '	########	Semester	########	Quarter 1,	########	Trimester	########	January 19	########	3rd Ten Da	########	Week 4, 1'	22	Day 22	

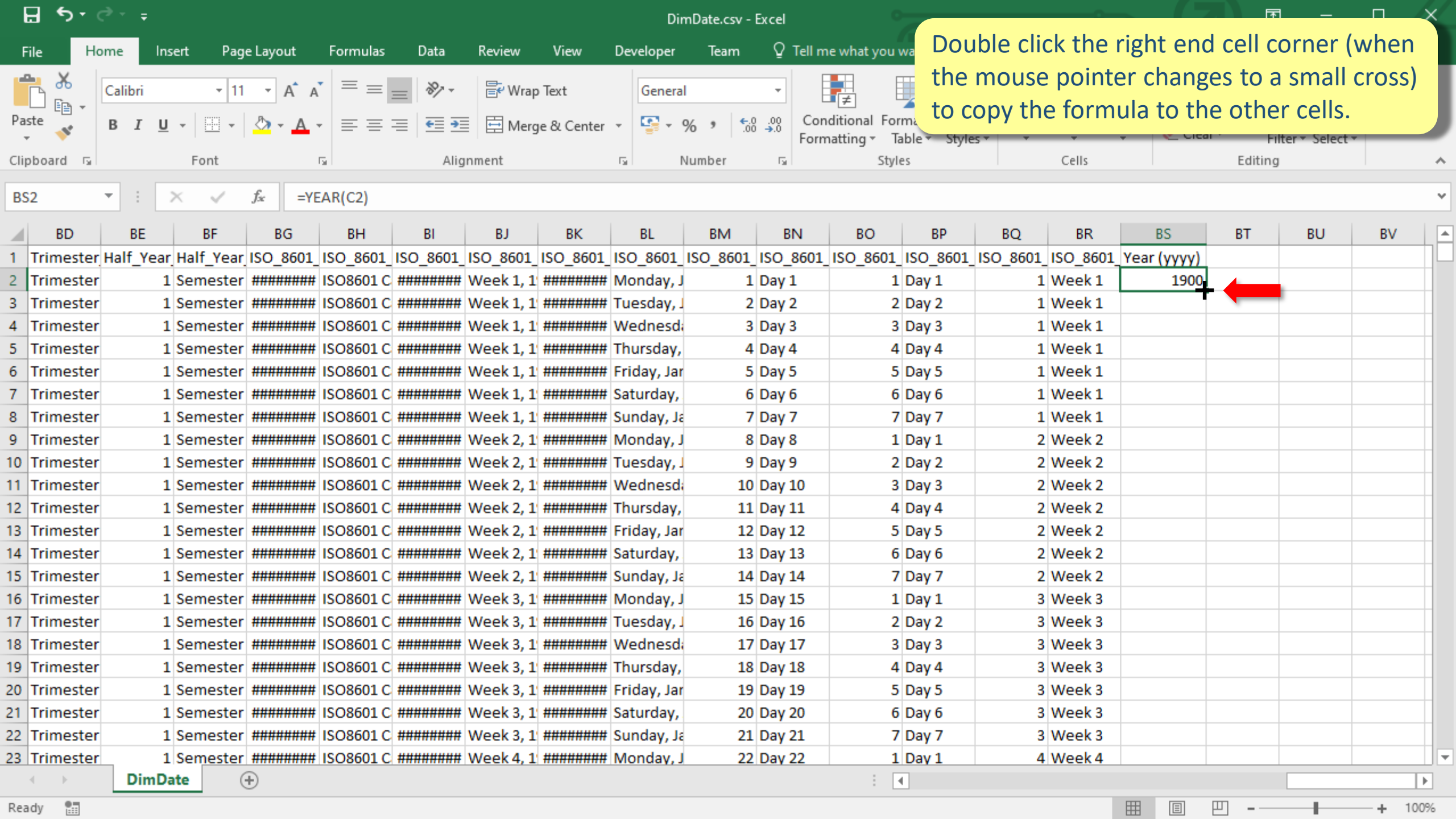


	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT
1	Quarter_C	Trimester	Trimester	Half_Year	Half_Year	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	Week_Of	Year_Name
2	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Monday, J	1	Day 1	1	Day 1	1	Week 1		
3	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Tuesday, J	2	Day 2	2	Day 2	1	Week 1		
4	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Wednesda	3	Day 3	3	Day 3	1	Week 1		
5	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Thursday,	4	Day 4	4	Day 4	1	Week 1		
6	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Friday, Jar	5	Day 5	5	Day 5	1	Week 1		
7	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Saturday,	6	Day 6	6	Day 6	1	Week 1		
8	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Sunday, Ja	7	Day 7	7	Day 7	1	Week 1		
9	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Monday, J	8	Day 8	1	Day 1	2	Week 2		
10	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Tuesday, J	9	Day 9	2	Day 2	2	Week 2		
11	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Wednesda	10	Day 10	3	Day 3	2	Week 2		
12	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Thursday,	11	Day 11	4	Day 4	2	Week 2		
13	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Friday, Jar	12	Day 12	5	Day 5	2	Week 2		
14	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Saturday,	13	Day 13	6	Day 6	2	Week 2		
15	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Sunday, Ja	14	Day 14	7	Day 7	2	Week 2		
16	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Monday, J	15	Day 15	1	Day 1	3	Week 3		
17	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Tuesday, J	16	Day 16	2	Day 2	3	Week 3		
18	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Wednesda	17	Day 17	3	Day 3	3	Week 3		
19	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Thursday,	18	Day 18	4	Day 4	3	Week 3		
20	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Friday, Jar	19	Day 19	5	Day 5	3	Week 3		
21	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Saturday,	20	Day 20	6	Day 6	3	Week 3		
22	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Sunday, Ja	21	Day 21	7	Day 7	3	Week 3		
23	Quarter 1	1	Trimester	1	Semester	########	ISO8601 C	########	Week 4, 1	########	Monday, J	22	Day 22	1	Day 1	4	Week 4		


DimDate.csv - Excel
Although a *Year* attribute exits it is not in the proper year format (i.e., yyyy).
C2
01/01/1900 00:00:00
DimDate
Ready



	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV
1	Trimester	Half_Year	Half_Year	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	Year (yyyy)			
2	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Monday, J	1	Day 1	1	Day 1	1	Week 1	=YEAR(C2)			
3	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Tuesday, J	2	Day 2	2	Day 2	1	Week 1				
4	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Wednesd	3	Day 3	3	Day 3	1	Week 1				
5	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Thursday,	4	Day 4	4	Day 4	1	Week 1				
6	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Friday, Jar	5	Day 5	5	Day 5	1	Week 1				
7	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Saturday,	6	Day 6	6	Day 6	1	Week 1				
8	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Sunday, Ja	7	Day 7	7	Day 7	1	Week 1				
9	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Monday, J	8	Day 8	1	Day 1	2	Week 2				
10	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Tuesday, J	9	Day 9	2	Day 2	2	Week 2				
11	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Wednesd	10	Day 10	3	Day 3	2	Week 2				
12	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Thursday,	11	Day 11	4	Day 4	2	Week 2				
13	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Friday, Jar	12	Day 12	5	Day 5	2	Week 2				
14	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Saturday,	13	Day 13	6	Day 6	2	Week 2				
15	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Sunday, Ja	14	Day 14	7	Day 7	2	Week 2				
16	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Monday, J	15	Day 15	1	Day 1	3	Week 3				
17	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Tuesday, J	16	Day 16	2	Day 2	3	Week 3				
18	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Wednesd	17	Day 17	3	Day 3	3	Week 3				
19	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Thursday,	18	Day 18	4	Day 4	3	Week 3				
20	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Friday, Jar	19	Day 19	5	Day 5	3	Week 3				
21	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Saturday,	20	Day 20	6	Day 6	3	Week 3				
22	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Sunday, Ja	21	Day 21	7	Day 7	3	Week 3				
23	Trimester	1	Semester	########	ISO8601 C	########	Week 4, 1	########	Monday, J	22	Day 22	1	Day 1	4	Week 4				



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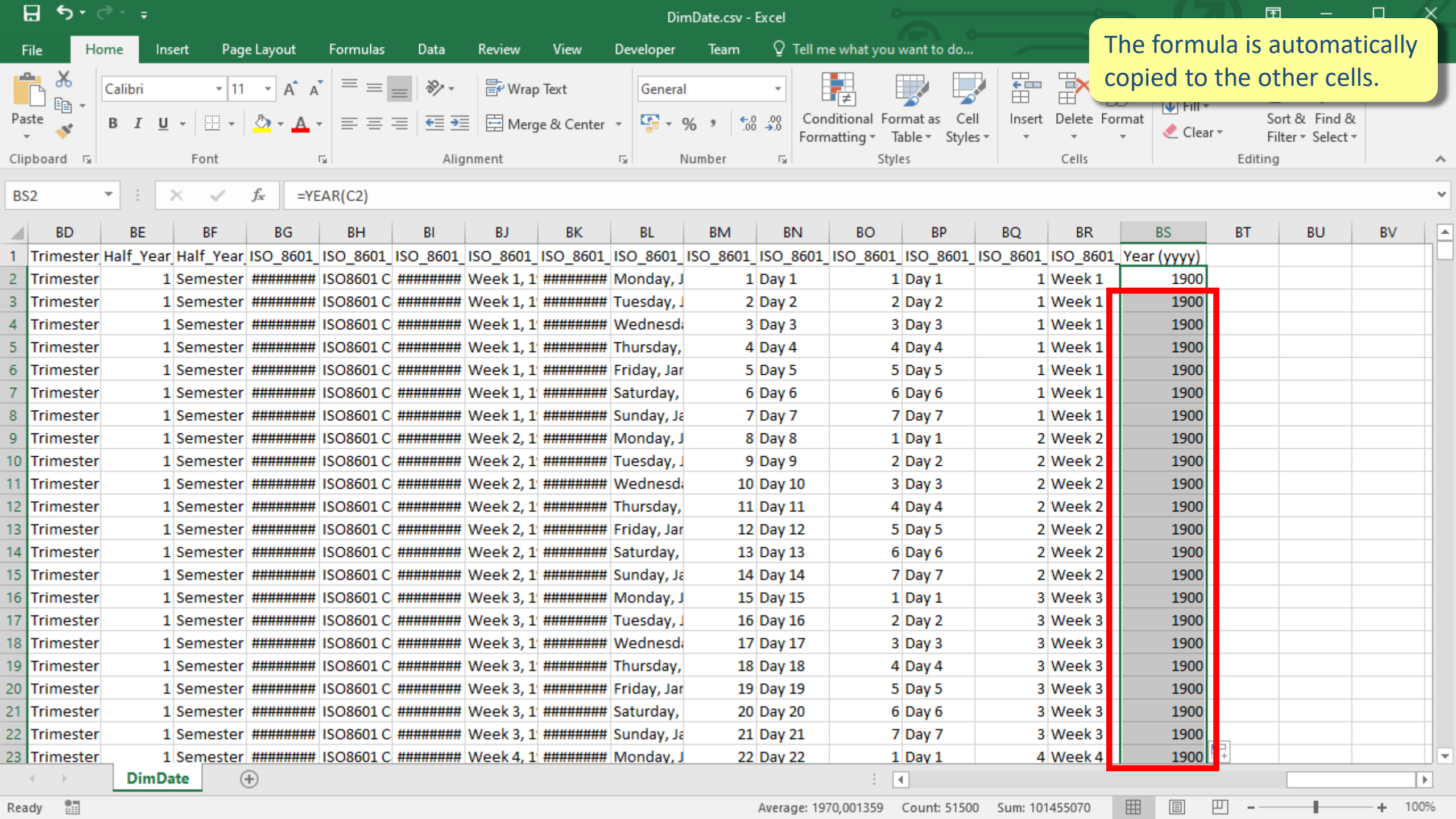
1	Trimester	Half_Year	Half_Year	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	Year (yyyy)			
2	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Monday, J	1	Day 1	1	Day 1	1	Week 1	1900			
3	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Tuesday, J	2	Day 2	2	Day 2	1	Week 1				
4	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Wednesd	3	Day 3	3	Day 3	1	Week 1				
5	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Thursday,	4	Day 4	4	Day 4	1	Week 1				
6	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Friday, Jar	5	Day 5	5	Day 5	1	Week 1				
7	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Saturday,	6	Day 6	6	Day 6	1	Week 1				
8	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Sunday, Ja	7	Day 7	7	Day 7	1	Week 1				
9	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Monday, J	8	Day 8	1	Day 1	2	Week 2				
10	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Tuesday, J	9	Day 9	2	Day 2	2	Week 2				
11	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Wednesd	10	Day 10	3	Day 3	2	Week 2				
12	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Thursday,	11	Day 11	4	Day 4	2	Week 2				
13	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Friday, Jar	12	Day 12	5	Day 5	2	Week 2				
14	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Saturday,	13	Day 13	6	Day 6	2	Week 2				
15	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Sunday, Ja	14	Day 14	7	Day 7	2	Week 2				
16	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Monday, J	15	Day 15	1	Day 1	3	Week 3				
17	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Tuesday, J	16	Day 16	2	Day 2	3	Week 3				
18	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Wednesd	17	Day 17	3	Day 3	3	Week 3				
19	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Thursday,	18	Day 18	4	Day 4	3	Week 3				
20	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Friday, Jar	19	Day 19	5	Day 5	3	Week 3				
21	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Saturday,	20	Day 20	6	Day 6	3	Week 3				
22	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Sunday, Ja	21	Day 21	7	Day 7	3	Week 3				
23	Trimester	1	Semester	########	ISO8601 C	########	Week 4, 1'	########	Monday, J	22	Day 22	1	Day 1	4	Week 4				



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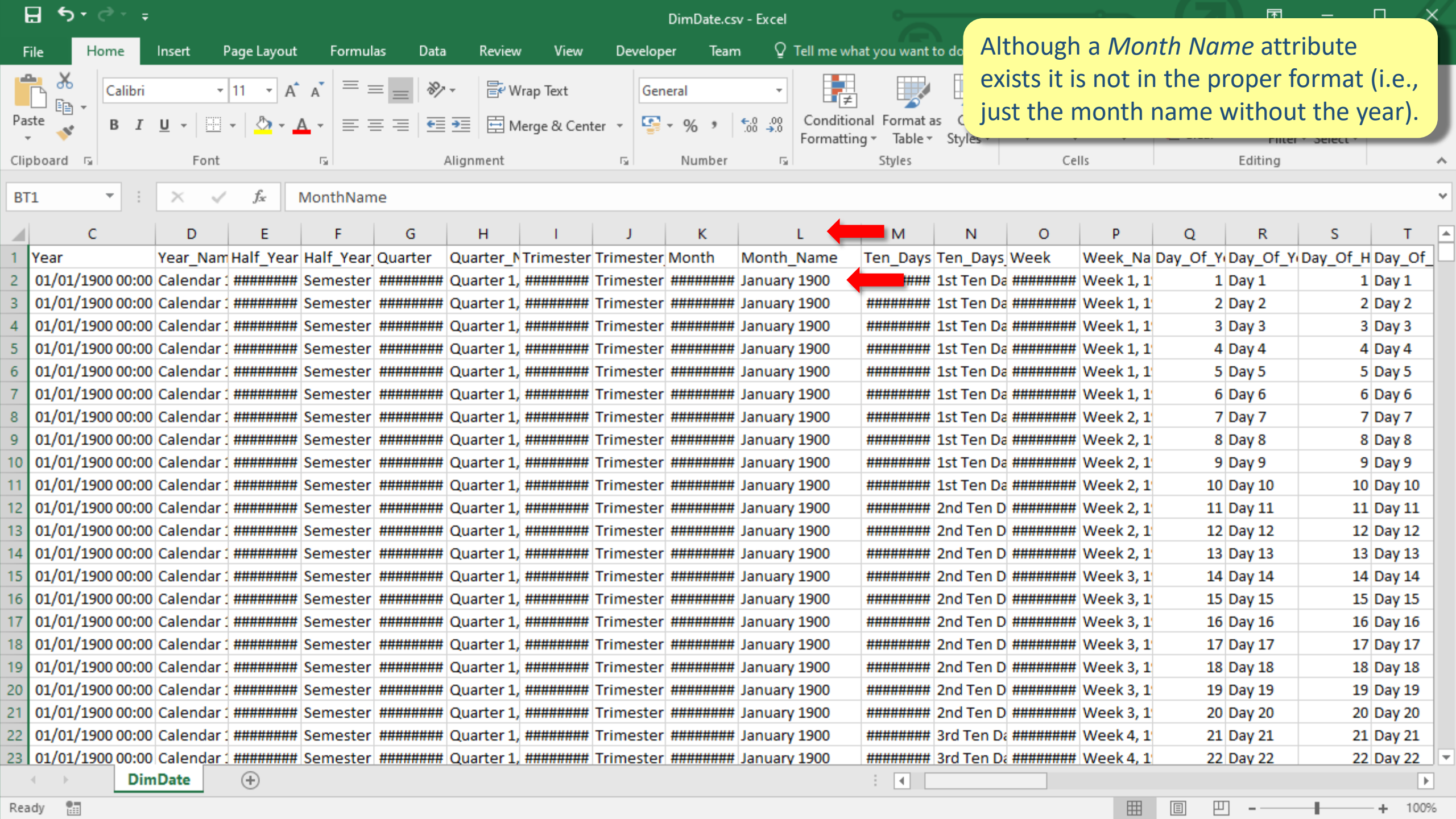
1	Trimester	Half_Year	Half_Year	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	Year (yyyy)			
2	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Monday, J	1	Day 1	1	Day 1	1	Week 1	1900			
3	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Tuesday, J	2	Day 2	2	Day 2	1	Week 1	1900			
4	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Wednesda	3	Day 3	3	Day 3	1	Week 1	1900			
5	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Thursday,	4	Day 4	4	Day 4	1	Week 1	1900			
6	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Friday, Jar	5	Day 5	5	Day 5	1	Week 1	1900			
7	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Saturday,	6	Day 6	6	Day 6	1	Week 1	1900			
8	Trimester	1	Semester	########	ISO8601 C	########	Week 1, 1	########	Sunday, Ja	7	Day 7	7	Day 7	1	Week 1	1900			
9	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Monday, J	8	Day 8	1	Day 1	2	Week 2	1900			
10	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Tuesday, J	9	Day 9	2	Day 2	2	Week 2	1900			
11	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Wednesda	10	Day 10	3	Day 3	2	Week 2	1900			
12	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Thursday,	11	Day 11	4	Day 4	2	Week 2	1900			
13	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Friday, Jar	12	Day 12	5	Day 5	2	Week 2	1900			
14	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Saturday,	13	Day 13	6	Day 6	2	Week 2	1900			
15	Trimester	1	Semester	########	ISO8601 C	########	Week 2, 1	########	Sunday, Ja	14	Day 14	7	Day 7	2	Week 2	1900			
16	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Monday, J	15	Day 15	1	Day 1	3	Week 3	1900			
17	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Tuesday, J	16	Day 16	2	Day 2	3	Week 3	1900			
18	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Wednesda	17	Day 17	3	Day 3	3	Week 3	1900			
19	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Thursday,	18	Day 18	4	Day 4	3	Week 3	1900			
20	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Friday, Jar	19	Day 19	5	Day 5	3	Week 3	1900			
21	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Saturday,	20	Day 20	6	Day 6	3	Week 3	1900			
22	Trimester	1	Semester	########	ISO8601 C	########	Week 3, 1	########	Sunday, Ja	21	Day 21	7	Day 7	3	Week 3	1900			
23	Trimester	1	Semester	########	ISO8601 C	########	Week 4, 1	########	Monday, J	22	Day 22	1	Day 1	4	Week 4	1900			



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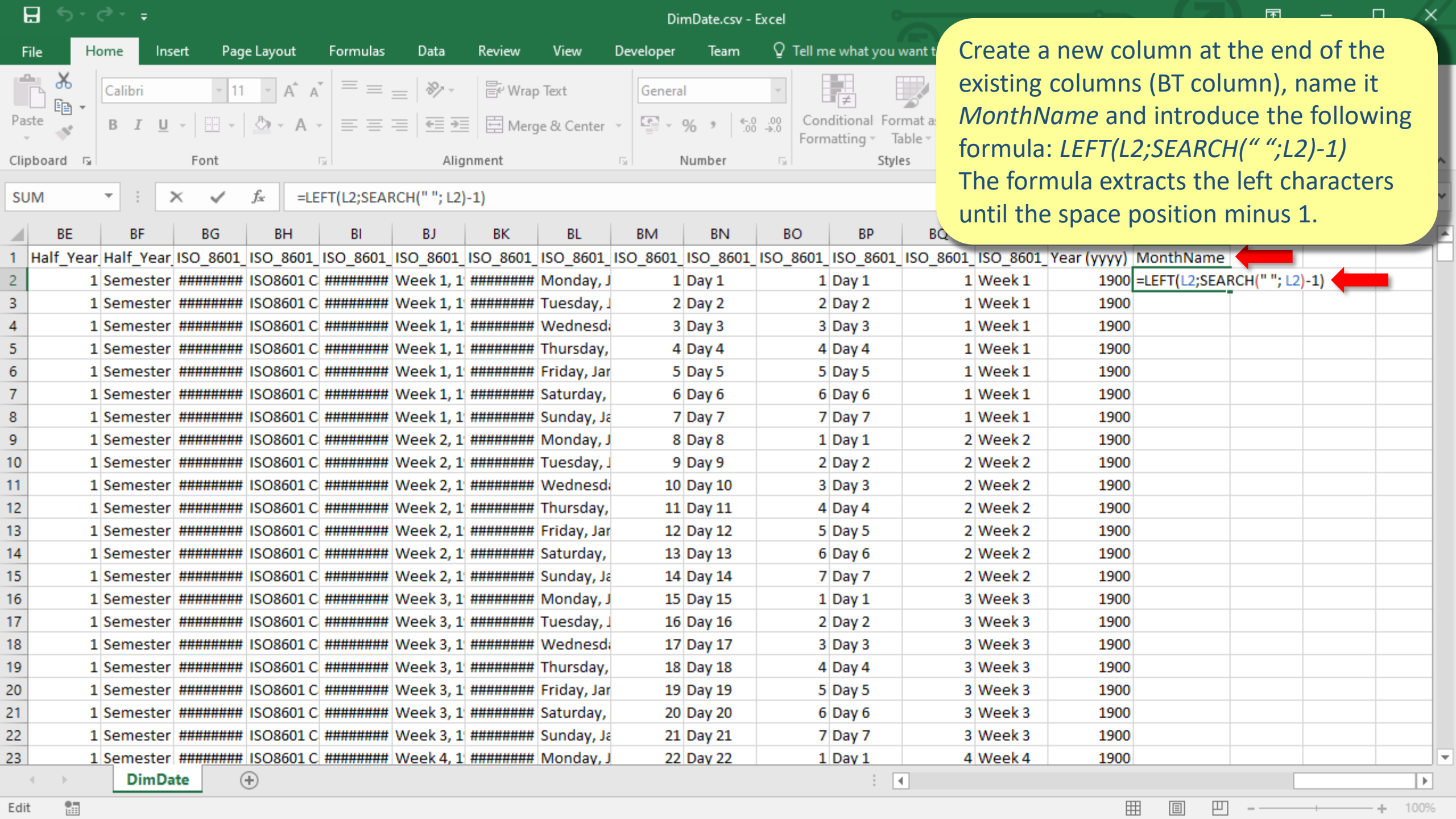
1	Year	Year_Nam	Half_Year	Half_Year_	Quarter	Quarter_N	Trimester	Trimester_	Month	Month_Name	Ten_Days	Ten_Days_	Week	Week_Na	Day_Of_Y	Day_Of_Y	Day_Of_H	Day_Of_
2	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	1st Ten Da	########	Week 1, 1	1	Day 1	1	Day 1
3	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	1st Ten Da	########	Week 1, 1	2	Day 2	2	Day 2
4	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	1st Ten Da	########	Week 1, 1	3	Day 3	3	Day 3
5	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	1st Ten Da	########	Week 1, 1	4	Day 4	4	Day 4
6	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	1st Ten Da	########	Week 1, 1	5	Day 5	5	Day 5
7	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	1st Ten Da	########	Week 1, 1	6	Day 6	6	Day 6
8	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	1st Ten Da	########	Week 2, 1	7	Day 7	7	Day 7
9	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	1st Ten Da	########	Week 2, 1	8	Day 8	8	Day 8
10	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	1st Ten Da	########	Week 2, 1	9	Day 9	9	Day 9
11	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	1st Ten Da	########	Week 2, 1	10	Day 10	10	Day 10
12	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	2nd Ten D	########	Week 2, 1	11	Day 11	11	Day 11
13	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	2nd Ten D	########	Week 2, 1	12	Day 12	12	Day 12
14	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	2nd Ten D	########	Week 2, 1	13	Day 13	13	Day 13
15	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	2nd Ten D	########	Week 3, 1	14	Day 14	14	Day 14
16	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	2nd Ten D	########	Week 3, 1	15	Day 15	15	Day 15
17	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	2nd Ten D	########	Week 3, 1	16	Day 16	16	Day 16
18	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	2nd Ten D	########	Week 3, 1	17	Day 17	17	Day 17
19	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	2nd Ten D	########	Week 3, 1	18	Day 18	18	Day 18
20	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	2nd Ten D	########	Week 3, 1	19	Day 19	19	Day 19
21	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	2nd Ten D	########	Week 3, 1	20	Day 20	20	Day 20
22	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	3rd Ten Da	########	Week 4, 1	21	Day 21	21	Day 21
23	01/01/1900 00:00	Calendar 1	########	Semester	########	Quarter 1,	########	Trimester	########	January 1900	########	3rd Ten Da	########	Week 4, 1	22	Day 22	22	Day 22



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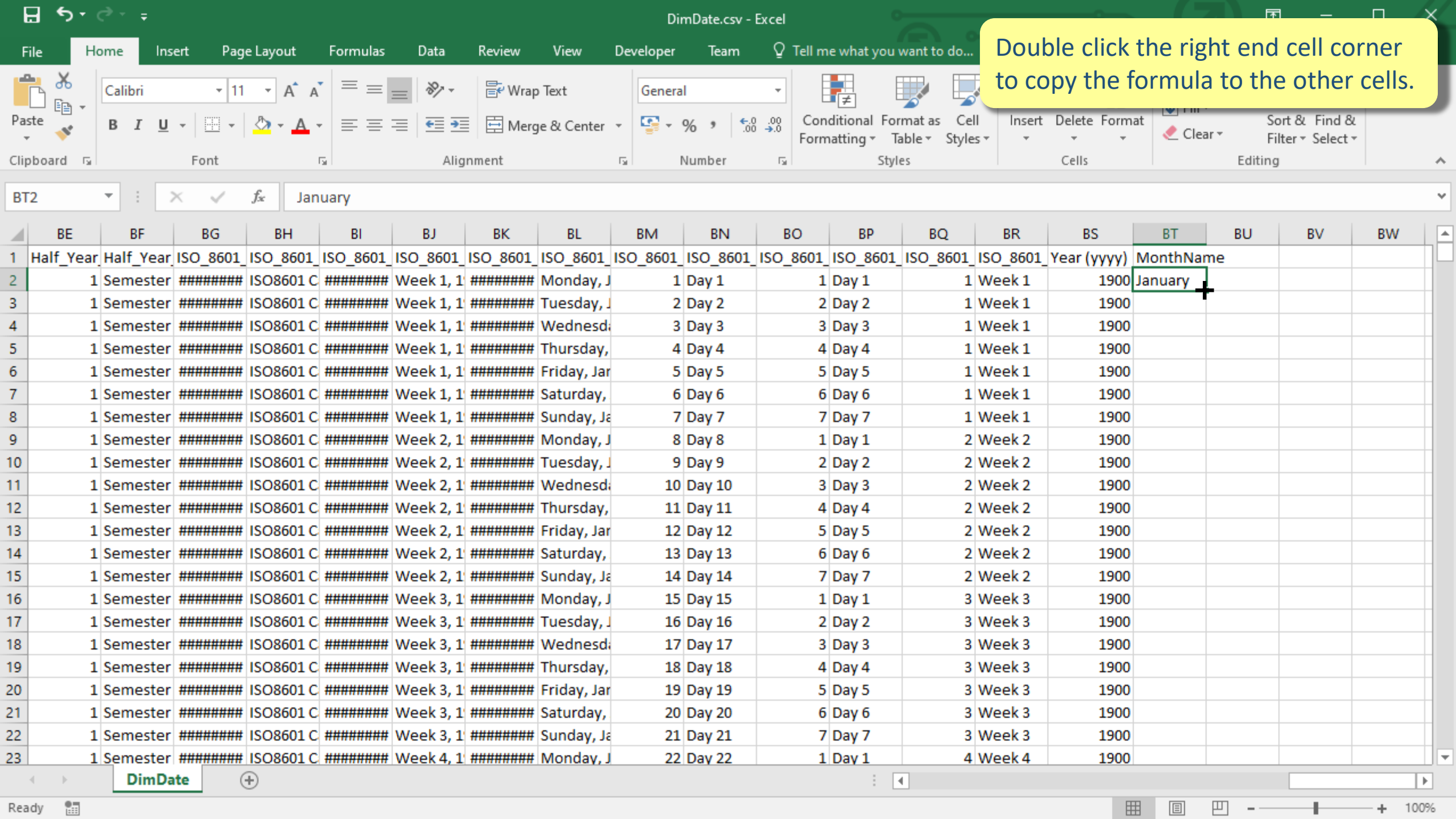
2	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Monday, J	1	Day 1	1	Day 1	1	Week 1	1900	=LEFT(L2;SEARCH(" "; L2)-1)
3	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Tuesday, J	2	Day 2	2	Day 2	1	Week 1	1900	
4	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Wednesd	3	Day 3	3	Day 3	1	Week 1	1900	
5	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Thursday,	4	Day 4	4	Day 4	1	Week 1	1900	
6	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Friday, Jar	5	Day 5	5	Day 5	1	Week 1	1900	
7	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Saturday,	6	Day 6	6	Day 6	1	Week 1	1900	
8	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Sunday, Ja	7	Day 7	7	Day 7	1	Week 1	1900	
9	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Monday, J	8	Day 8	1	Day 1	2	Week 2	1900	
10	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Tuesday, J	9	Day 9	2	Day 2	2	Week 2	1900	
11	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Wednesd	10	Day 10	3	Day 3	2	Week 2	1900	
12	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Thursday,	11	Day 11	4	Day 4	2	Week 2	1900	
13	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Friday, Jar	12	Day 12	5	Day 5	2	Week 2	1900	
14	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Saturday,	13	Day 13	6	Day 6	2	Week 2	1900	
15	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Sunday, Ja	14	Day 14	7	Day 7	2	Week 2	1900	
16	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Monday, J	15	Day 15	1	Day 1	3	Week 3	1900	
17	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Tuesday, J	16	Day 16	2	Day 2	3	Week 3	1900	
18	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Wednesd	17	Day 17	3	Day 3	3	Week 3	1900	
19	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Thursday,	18	Day 18	4	Day 4	3	Week 3	1900	
20	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Friday, Jar	19	Day 19	5	Day 5	3	Week 3	1900	
21	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Saturday,	20	Day 20	6	Day 6	3	Week 3	1900	
22	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Sunday, Ja	21	Day 21	7	Day 7	3	Week 3	1900	
23	1	Semester	########	ISO8601 C	########	Week 4, 1'	########	Monday, J	22	Day 22	1	Day 1	4	Week 4	1900	



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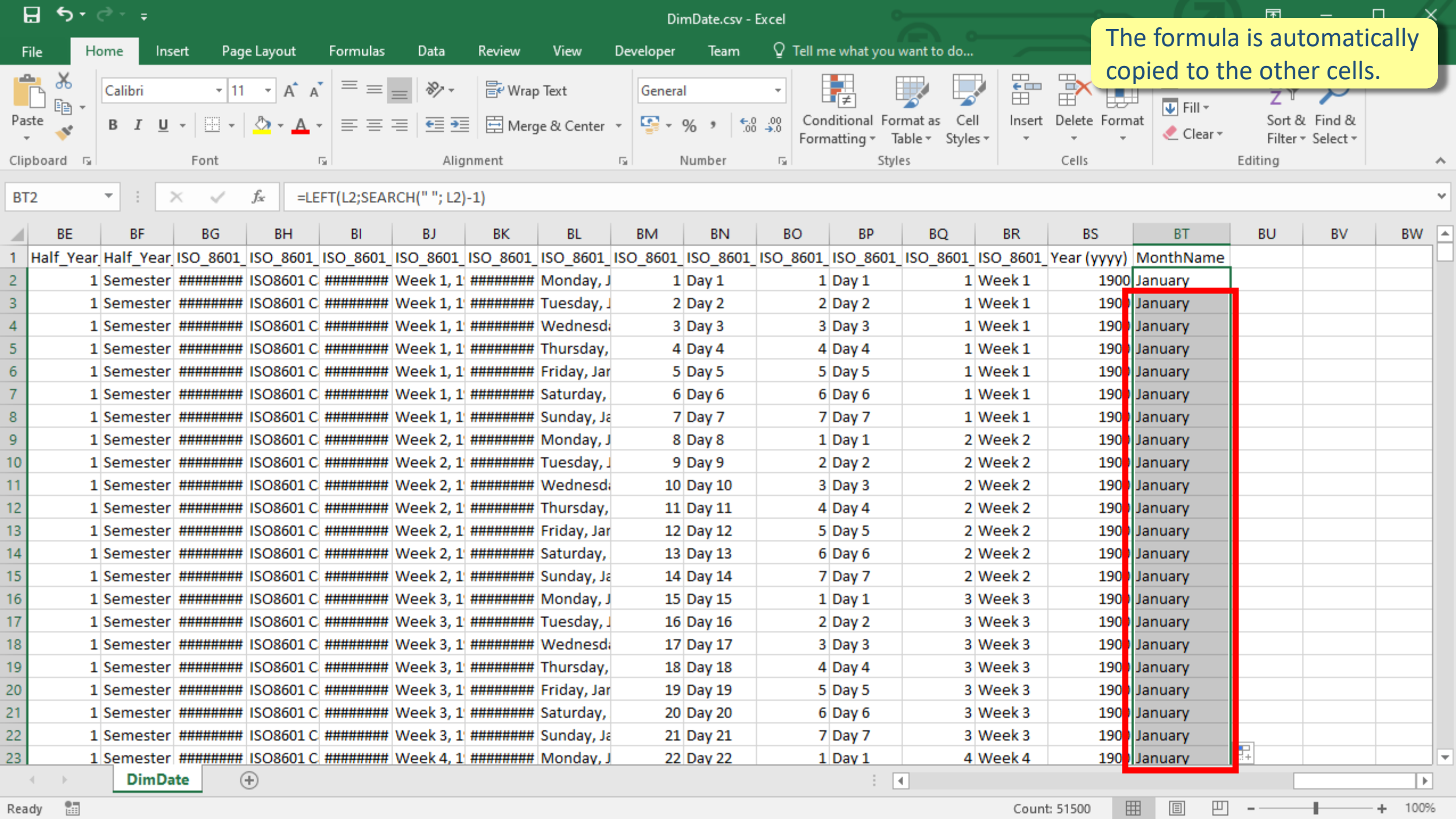
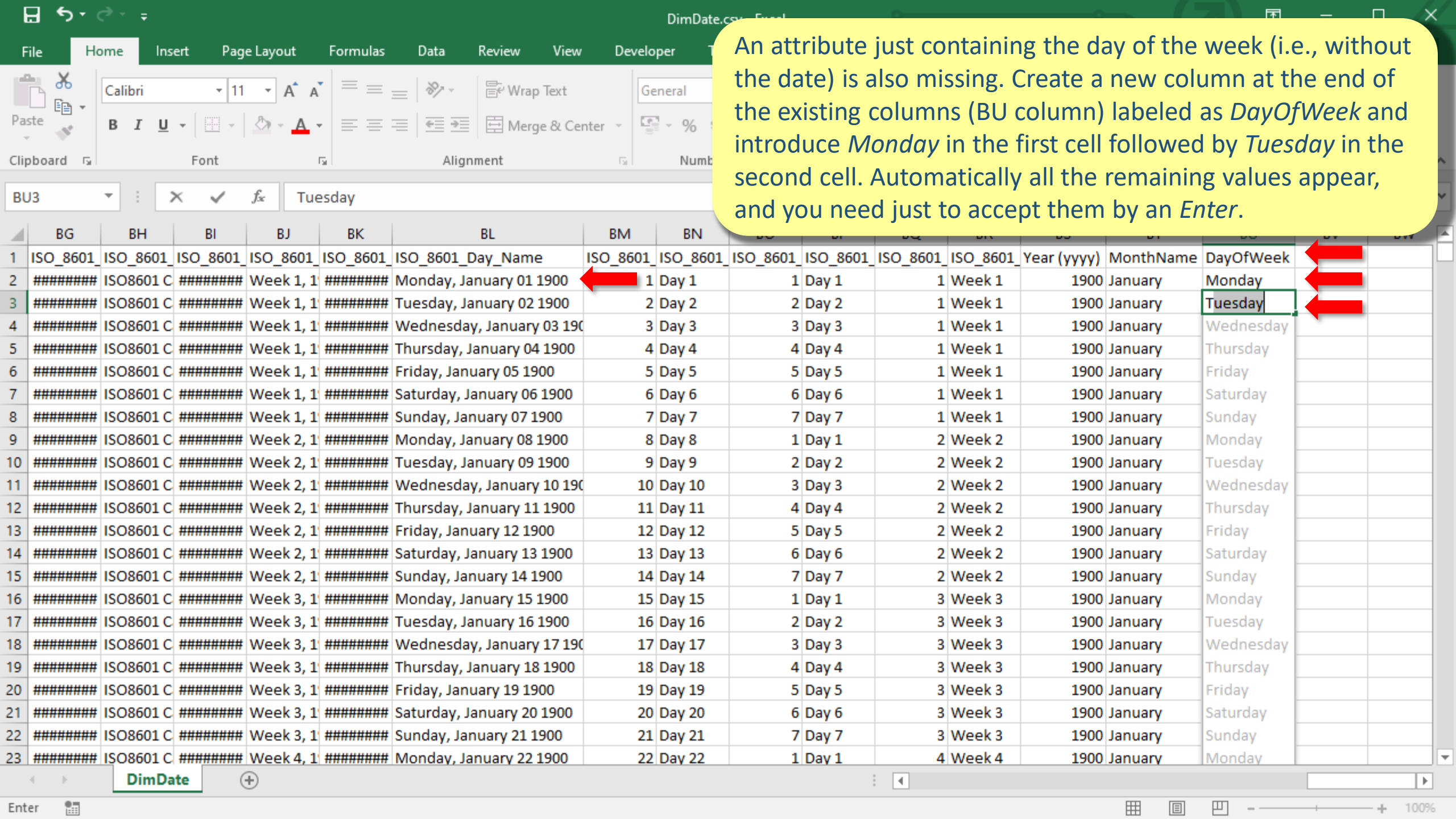
1	Half_Year	Half_Year	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	Year (yyyy)	MonthName			
2	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Monday, J	1	Day 1	1	Day 1	1	Week 1	1900	January			
3	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Tuesday, J	2	Day 2	2	Day 2	1	Week 1	1900				
4	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Wednesda	3	Day 3	3	Day 3	1	Week 1	1900				
5	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Thursday,	4	Day 4	4	Day 4	1	Week 1	1900				
6	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Friday, Jar	5	Day 5	5	Day 5	1	Week 1	1900				
7	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Saturday,	6	Day 6	6	Day 6	1	Week 1	1900				
8	1	Semester	########	ISO8601 C	########	Week 1, 1'	########	Sunday, Ja	7	Day 7	7	Day 7	1	Week 1	1900				
9	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Monday, J	8	Day 8	1	Day 1	2	Week 2	1900				
10	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Tuesday, J	9	Day 9	2	Day 2	2	Week 2	1900				
11	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Wednesda	10	Day 10	3	Day 3	2	Week 2	1900				
12	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Thursday,	11	Day 11	4	Day 4	2	Week 2	1900				
13	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Friday, Jar	12	Day 12	5	Day 5	2	Week 2	1900				
14	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Saturday,	13	Day 13	6	Day 6	2	Week 2	1900				
15	1	Semester	########	ISO8601 C	########	Week 2, 1'	########	Sunday, Ja	14	Day 14	7	Day 7	2	Week 2	1900				
16	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Monday, J	15	Day 15	1	Day 1	3	Week 3	1900				
17	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Tuesday, J	16	Day 16	2	Day 2	3	Week 3	1900				
18	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Wednesda	17	Day 17	3	Day 3	3	Week 3	1900				
19	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Thursday,	18	Day 18	4	Day 4	3	Week 3	1900				
20	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Friday, Jar	19	Day 19	5	Day 5	3	Week 3	1900				
21	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Saturday,	20	Day 20	6	Day 6	3	Week 3	1900				
22	1	Semester	########	ISO8601 C	########	Week 3, 1'	########	Sunday, Ja	21	Day 21	7	Day 7	3	Week 3	1900				
23	1	Semester	########	ISO8601 C	########	Week 4, 1'	########	Monday, J	22	Day 22	1	Day 1	4	Week 4	1900				



BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT
Half_Year	Half_Year	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	Year (yyyy)	MonthName
1	Semester	########	ISO8601 C	########	Week 1, 1	########	Monday, J	1	Day 1	1	Day 1	1	Week 1	1900	January
1	Semester	########	ISO8601 C	########	Week 1, 1	########	Tuesday, J	2	Day 2	2	Day 2	1	Week 1	190	January
1	Semester	########	ISO8601 C	########	Week 1, 1	########	Wednesda	3	Day 3	3	Day 3	1	Week 1	190	January
1	Semester	########	ISO8601 C	########	Week 1, 1	########	Thursday,	4	Day 4	4	Day 4	1	Week 1	190	January
1	Semester	########	ISO8601 C	########	Week 1, 1	########	Friday, Jar	5	Day 5	5	Day 5	1	Week 1	190	January
1	Semester	########	ISO8601 C	########	Week 1, 1	########	Saturday,	6	Day 6	6	Day 6	1	Week 1	190	January
1	Semester	########	ISO8601 C	########	Week 1, 1	########	Sunday, Ja	7	Day 7	7	Day 7	1	Week 1	190	January
1	Semester	########	ISO8601 C	########	Week 2, 1	########	Monday, J	8	Day 8	1	Day 1	2	Week 2	190	January
1	Semester	########	ISO8601 C	########	Week 2, 1	########	Tuesday, J	9	Day 9	2	Day 2	2	Week 2	190	January
1	Semester	########	ISO8601 C	########	Week 2, 1	########	Wednesda	10	Day 10	3	Day 3	2	Week 2	190	January
1	Semester	########	ISO8601 C	########	Week 2, 1	########	Thursday,	11	Day 11	4	Day 4	2	Week 2	190	January
1	Semester	########	ISO8601 C	########	Week 2, 1	########	Friday, Jar	12	Day 12	5	Day 5	2	Week 2	190	January
1	Semester	########	ISO8601 C	########	Week 2, 1	########	Saturday,	13	Day 13	6	Day 6	2	Week 2	190	January
1	Semester	########	ISO8601 C	########	Week 2, 1	########	Sunday, Ja	14	Day 14	7	Day 7	2	Week 2	190	January
1	Semester	########	ISO8601 C	########	Week 3, 1	########	Monday, J	15	Day 15	1	Day 1	3	Week 3	190	January
1	Semester	########	ISO8601 C	########	Week 3, 1	########	Tuesday, J	16	Day 16	2	Day 2	3	Week 3	190	January
1	Semester	########	ISO8601 C	########	Week 3, 1	########	Wednesda	17	Day 17	3	Day 3	3	Week 3	190	January
1	Semester	########	ISO8601 C	########	Week 3, 1	########	Thursday,	18	Day 18	4	Day 4	3	Week 3	190	January
1	Semester	########	ISO8601 C	########	Week 3, 1	########	Friday, Jar	19	Day 19	5	Day 5	3	Week 3	190	January
1	Semester	########	ISO8601 C	########	Week 3, 1	########	Saturday,	20	Day 20	6	Day 6	3	Week 3	190	January
1	Semester	########	ISO8601 C	########	Week 3, 1	########	Sunday, Ja	21	Day 21	7	Day 7	3	Week 3	190	January
1	Semester	########	ISO8601 C	########	Week 4, 1	########	Monday, J	22	Day 22	1	Day 1	4	Week 4	190	January

An attribute just containing the day of the week (i.e., without the date) is also missing. Create a new column at the end of the existing columns (BU column) labeled as *DayOfWeek* and introduce *Monday* in the first cell followed by *Tuesday* in the second cell. Automatically all the remaining values appear, and you need just to accept them by an *Enter*.



DimDate.csv - Excel

File Home Insert Page Layout Formulas Data Review View Developer

Calibri 11 Wrap Text General

Paste Merge & Center

Clipboard Font Alignment Numb

BU3 Tuesday

	BG	BH	BI	BJ	BK	BL	BM	BN								
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3	########	ISO8601 C	########	Week 1, 1	########	Tuesday, January 02 1900	2	Day 2	2	Day 2	1	Week 1	1900	January	Tuesday	
4	########	ISO8601 C	########	Week 1, 1	########	Wednesday, January 03 190	3	Day 3	3	Day 3	1	Week 1	1900	January	Wednesday	
5	########	ISO8601 C	########	Week 1, 1	########	Thursday, January 04 1900	4	Day 4	4	Day 4	1	Week 1	1900	January	Thursday	
6	########	ISO8601 C	########	Week 1, 1	########	Friday, January 05 1900	5	Day 5	5	Day 5	1	Week 1	1900	January	Friday	
7	########	ISO8601 C	########	Week 1, 1	########	Saturday, January 06 1900	6	Day 6	6	Day 6	1	Week 1	1900	January	Saturday	
8	########	ISO8601 C	########	Week 1, 1	########	Sunday, January 07 1900	7	Day 7	7	Day 7	1	Week 1	1900	January	Sunday	
9	########	ISO8601 C	########	Week 2, 1	########	Monday, January 08 1900	8	Day 8	1	Day 1	2	Week 2	1900	January	Monday	
10	########	ISO8601 C	########	Week 2, 1	########	Tuesday, January 09 1900	9	Day 9	2	Day 2	2	Week 2	1900	January	Tuesday	
11	########	ISO8601 C	########	Week 2, 1	########	Wednesday, January 10 190	10	Day 10	3	Day 3	2	Week 2	1900	January	Wednesday	
12	########	ISO8601 C	########	Week 2, 1	########	Thursday, January 11 1900	11	Day 11	4	Day 4	2	Week 2	1900	January	Thursday	
13	########	ISO8601 C	########	Week 2, 1	########	Friday, January 12 1900	12	Day 12	5	Day 5	2	Week 2	1900	January	Friday	
14	########	ISO8601 C	########	Week 2, 1	########	Saturday, January 13 1900	13	Day 13	6	Day 6	2	Week 2	1900	January	Saturday	
15	########	ISO8601 C	########	Week 2, 1	########	Sunday, January 14 1900	14	Day 14	7	Day 7	2	Week 2	1900	January	Sunday	
16	########	ISO8601 C	########	Week 3, 1	########	Monday, January 15 1900	15	Day 15	1	Day 1	3	Week 3	1900	January	Monday	
17	########	ISO8601 C	########	Week 3, 1	########	Tuesday, January 16 1900	16	Day 16	2	Day 2	3	Week 3	1900	January	Tuesday	
18	########	ISO8601 C	########	Week 3, 1	########	Wednesday, January 17 190	17	Day 17	3	Day 3	3	Week 3	1900	January	Wednesday	
19	########	ISO8601 C	########	Week 3, 1	########	Thursday, January 18 1900	18	Day 18	4	Day 4	3	Week 3	1900	January	Thursday	
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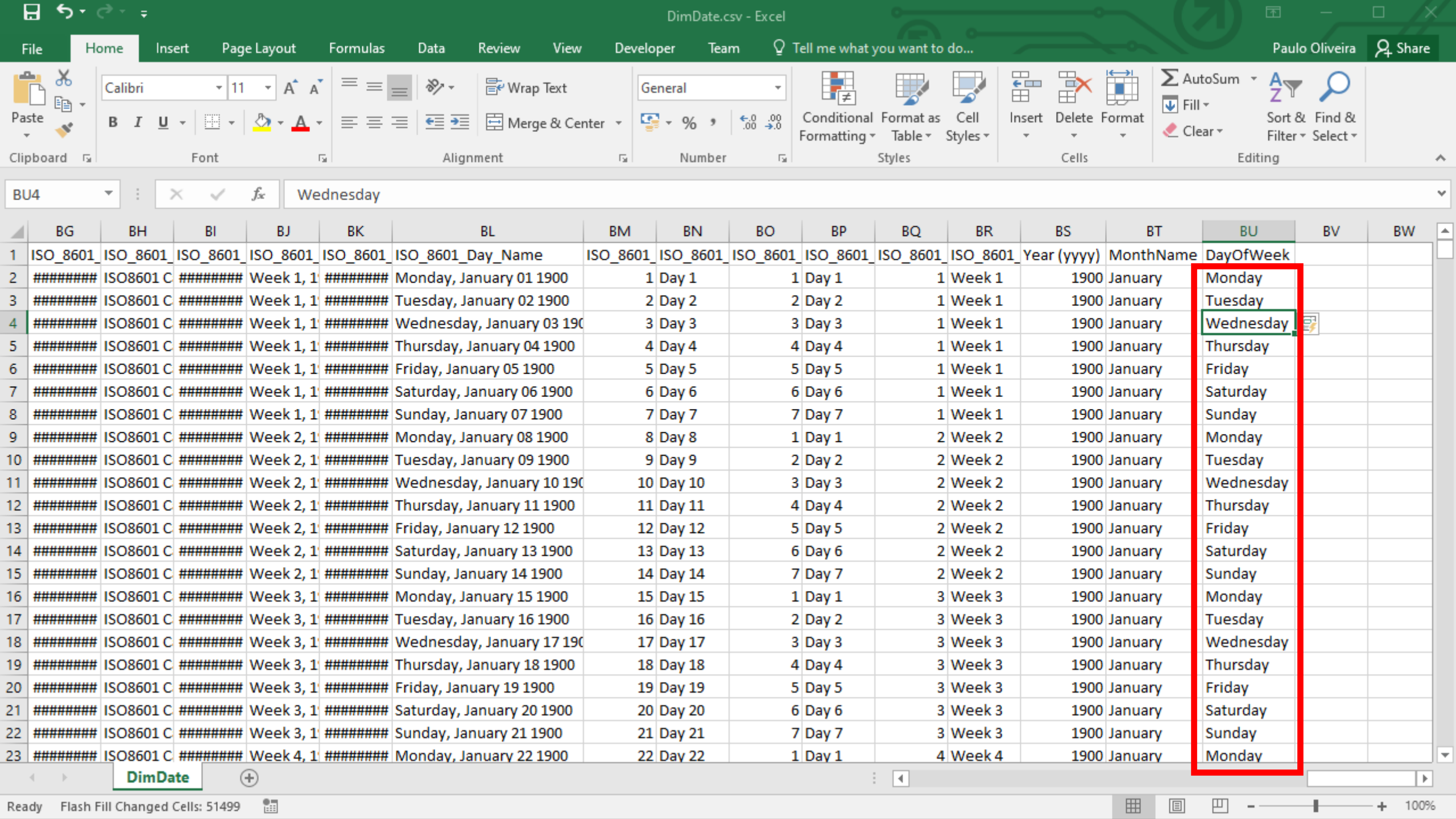
22	########	ISO8601 C	########	Week 3, 1	########	Sunday, January 21 1900	21	Day 21	7	Day 7	3	Week 3	1900	January	Sunday	
23	########	ISO8601 C	########	Week 4, 1	########	Monday, January 22 1900	22	Day 22	1	Day 1	4	Week 4	1900	January	Monday	

DimDate

Enter



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6	########	ISO8601 C	########	Week 1, 1	########	Friday, January 05 1900	5	Day 5	5	Day 5	1	Week 1	1900	January	Friday		
7	########	ISO8601 C	########	Week 1, 1	########	Saturday, January 06 1900	6	Day 6	6	Day 6	1	Week 1	1900	January	Saturday		
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10	########	ISO8601 C	########	Week 2, 1	########	Tuesday, January 09 1900	9	Day 9	2	Day 2	2	Week 2	1900	January	Tuesday		
11	########	ISO8601 C	########	Week 2, 1	########	Wednesday, January 10 190	10	Day 10	3	Day 3	2	Week 2	1900	January	Wednesday		
12	########	ISO8601 C	########	Week 2, 1	########	Thursday, January 11 1900	11	Day 11	4	Day 4	2	Week 2	1900	January	Thursday		
13	########	ISO8601 C	########	Week 2, 1	########	Friday, January 12 1900	12	Day 12	5	Day 5	2	Week 2	1900	January	Friday		
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16	########	ISO8601 C	########	Week 3, 1	########	Monday, January 15 1900	15	Day 15	1	Day 1	3	Week 3	1900	January	Monday		
17	########	ISO8601 C	########	Week 3, 1	########	Tuesday, January 16 1900	16	Day 16	2	Day 2	3	Week 3	1900	January	Tuesday		
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19	########	ISO8601 C	########	Week 3, 1	########	Thursday, January 18 1900	18	Day 18	4	Day 4	3	Week 3	1900	January	Thursday		
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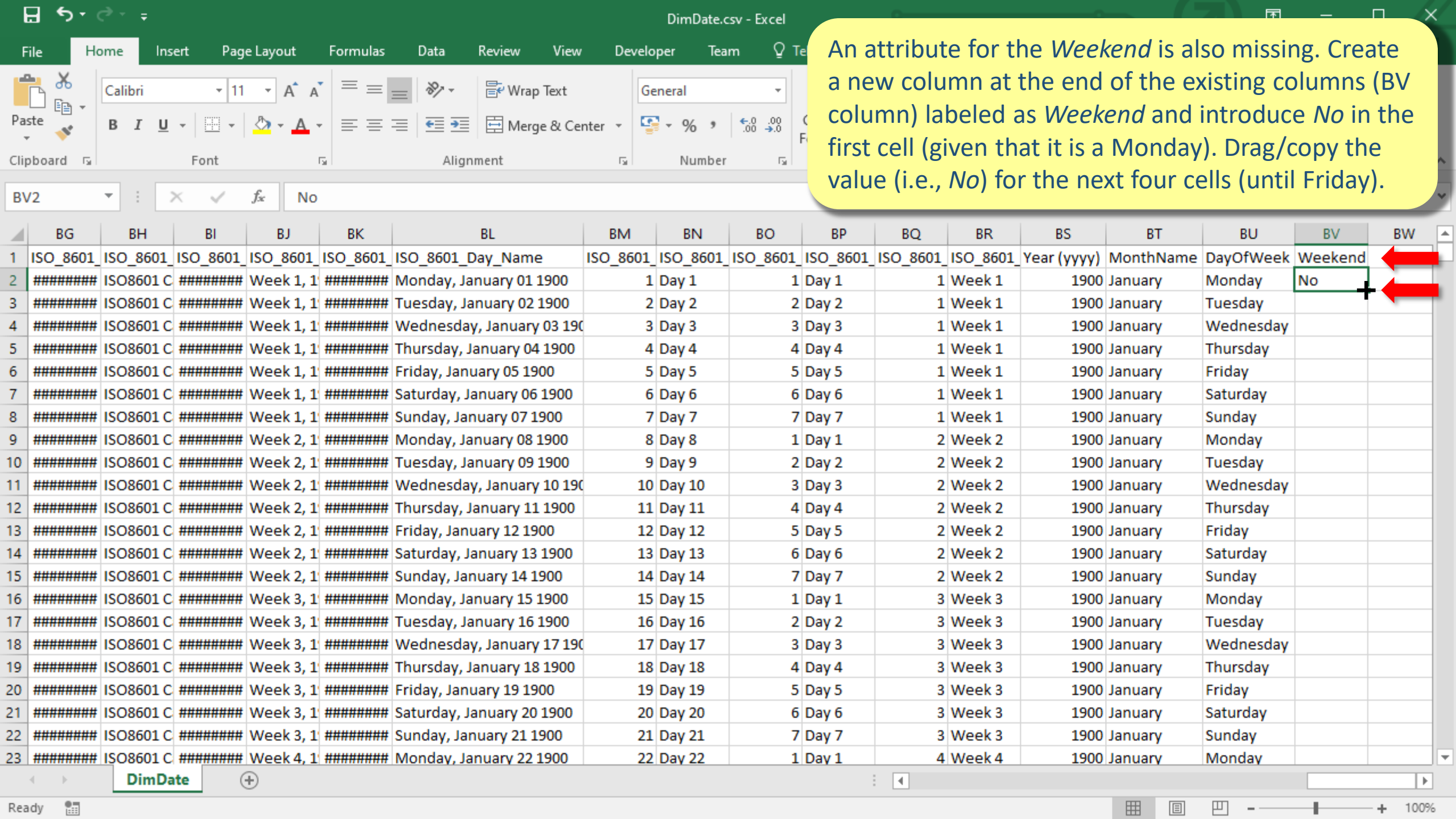
22	########	ISO8601 C	########	Week 3, 1	########	Sunday, January 21 1900	21	Day 21	7	Day 7	3	Week 3	1900	January	Sunday		
23	########	ISO8601 C	########	Week 4, 1	########	Monday, January 22 1900	22	Day 22	1	Day 1	4	Week 4	1900	January	Monday		



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6	########	ISO8601 C	########	Week 1, 1	########	Friday, January 05 1900	5	Day 5	5	Day 5	1	Week 1	1900	January	Friday		
7	########	ISO8601 C	########	Week 1, 1	########	Saturday, January 06 1900	6	Day 6	6	Day 6	1	Week 1	1900	January	Saturday		
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10	########	ISO8601 C	########	Week 2, 1	########	Tuesday, January 09 1900	9	Day 9	2	Day 2	2	Week 2	1900	January	Tuesday		
11	########	ISO8601 C	########	Week 2, 1	########	Wednesday, January 10 190	10	Day 10	3	Day 3	2	Week 2	1900	January	Wednesday		
12	########	ISO8601 C	########	Week 2, 1	########	Thursday, January 11 1900	11	Day 11	4	Day 4	2	Week 2	1900	January	Thursday		
13	########	ISO8601 C	########	Week 2, 1	########	Friday, January 12 1900	12	Day 12	5	Day 5	2	Week 2	1900	January	Friday		
14	########	ISO8601 C	########	Week 2, 1	########	Saturday, January 13 1900	13	Day 13	6	Day 6	2	Week 2	1900	January	Saturday		
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18	########	ISO8601 C	########	Week 3, 1	########	Wednesday, January 17 190	17	Day 17	3	Day 3	3	Week 3	1900	January	Wednesday		
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22	########	ISO8601 C	########	Week 3, 1	########	Sunday, January 21 1900	21	Day 21	7	Day 7	3	Week 3	1900	January	Sunday		
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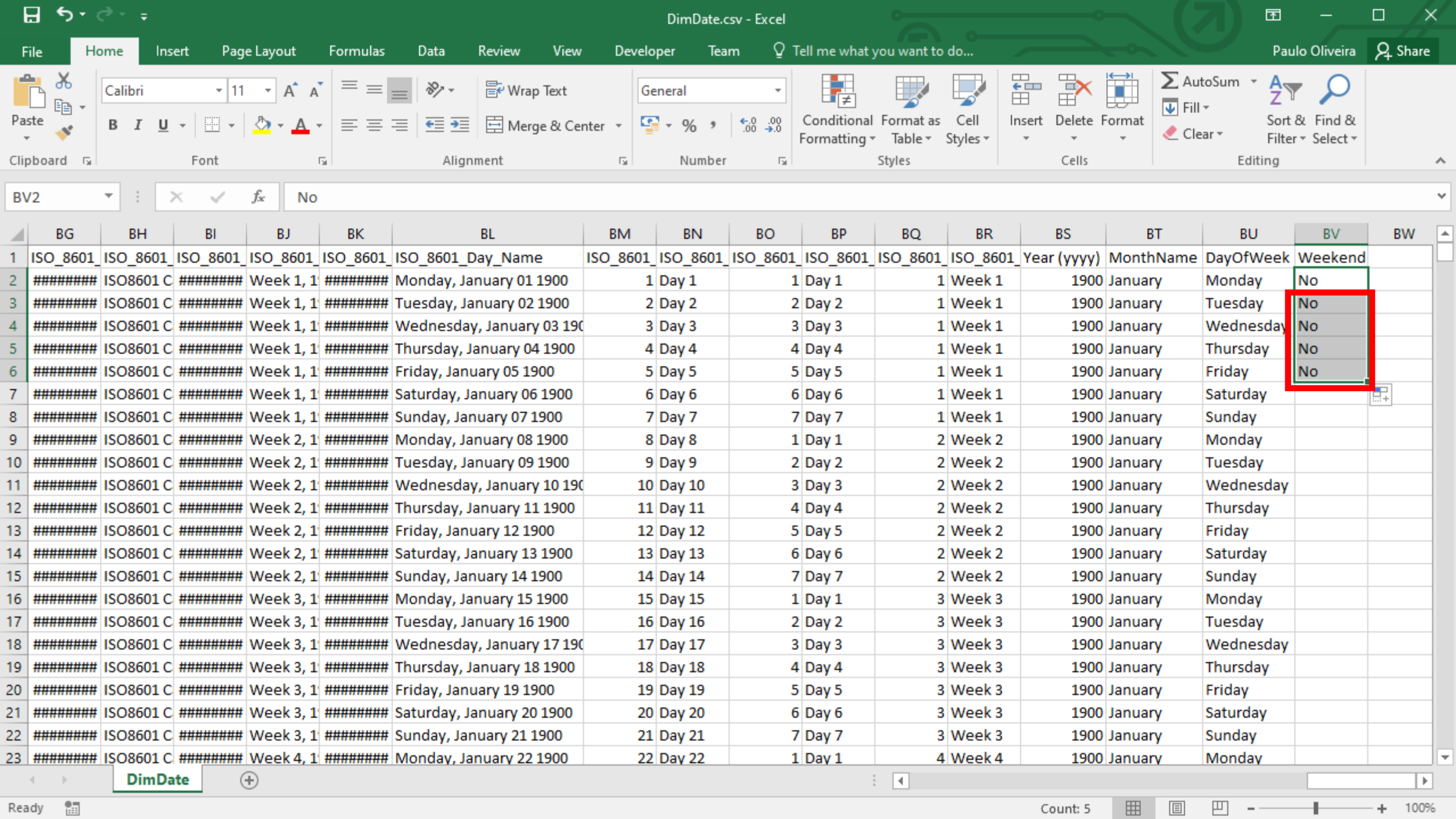

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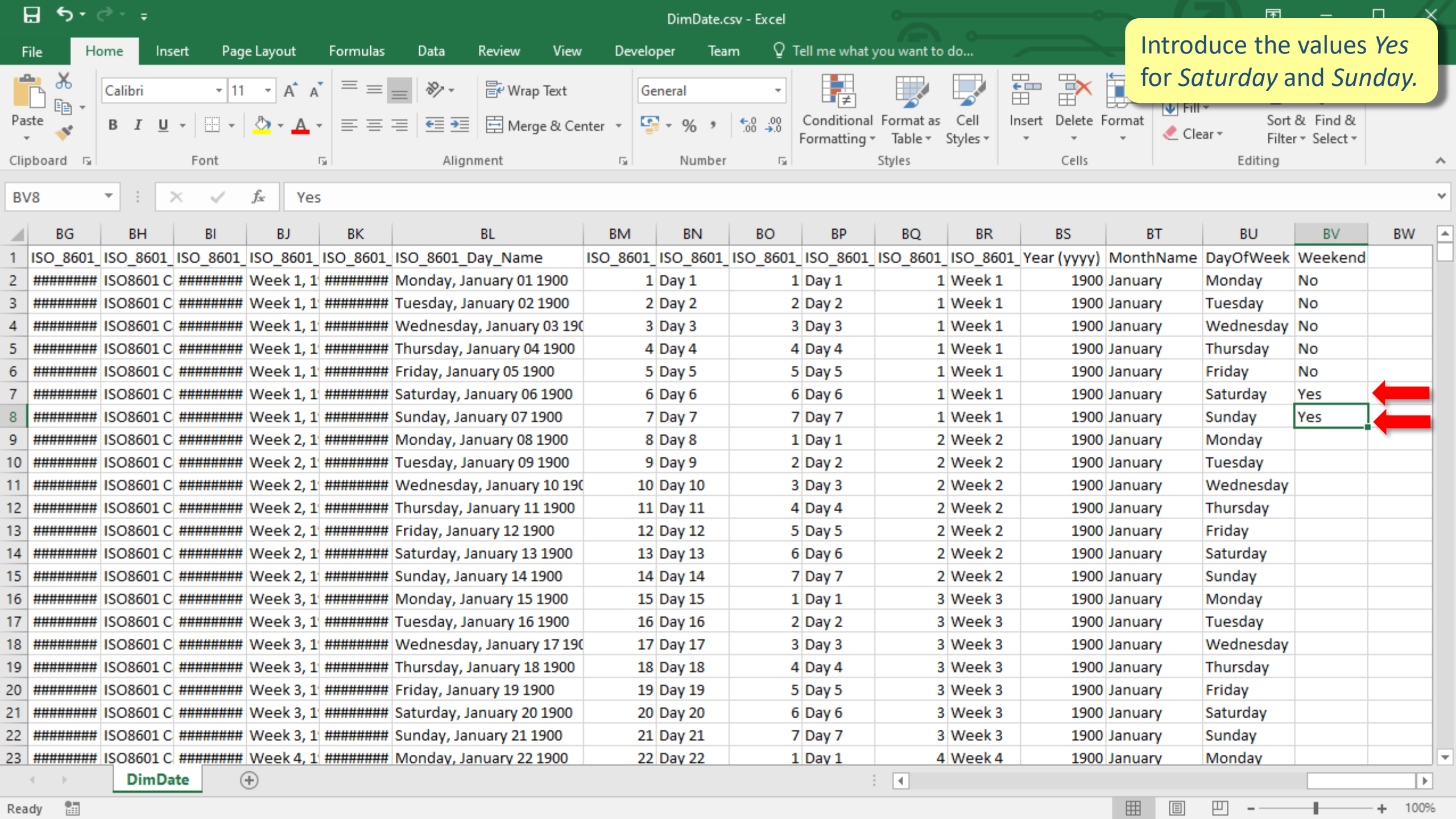

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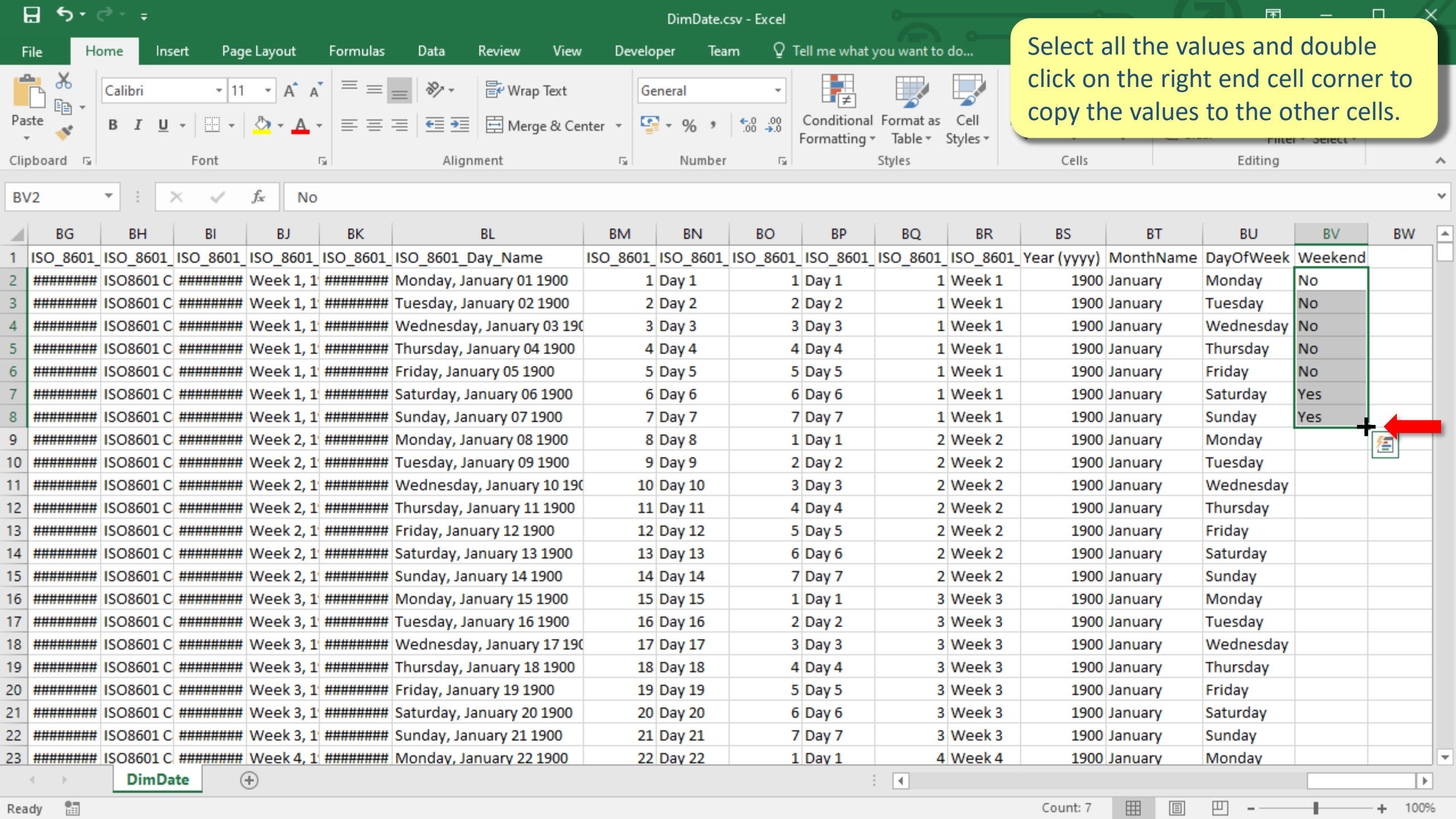

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4	########	ISO8601 C	########	Week 1, 1	########	Wednesday, January 03 190	3	Day 3	3	Day 3	1	Week 1	1900	January	Wednesday	No	
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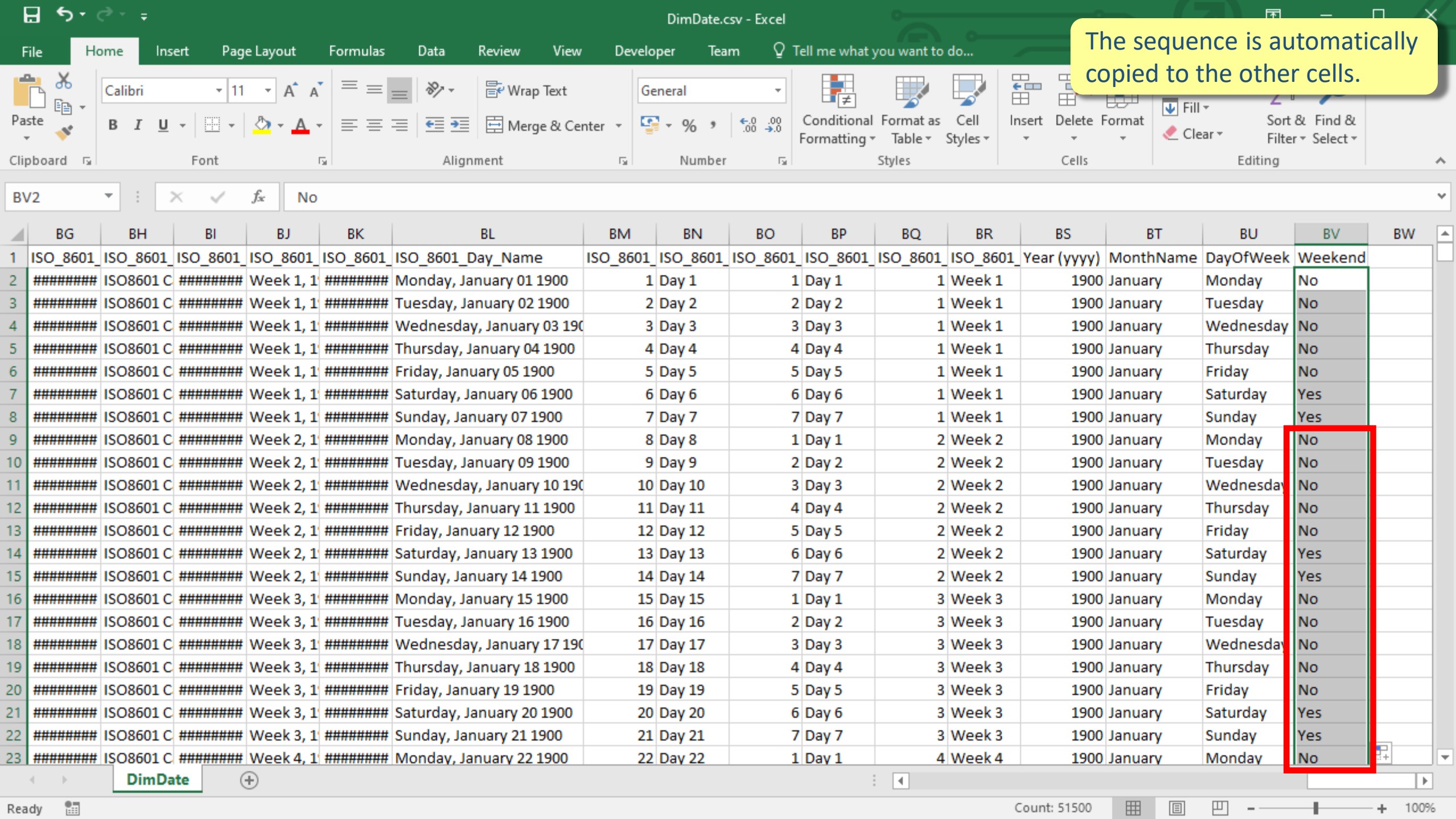
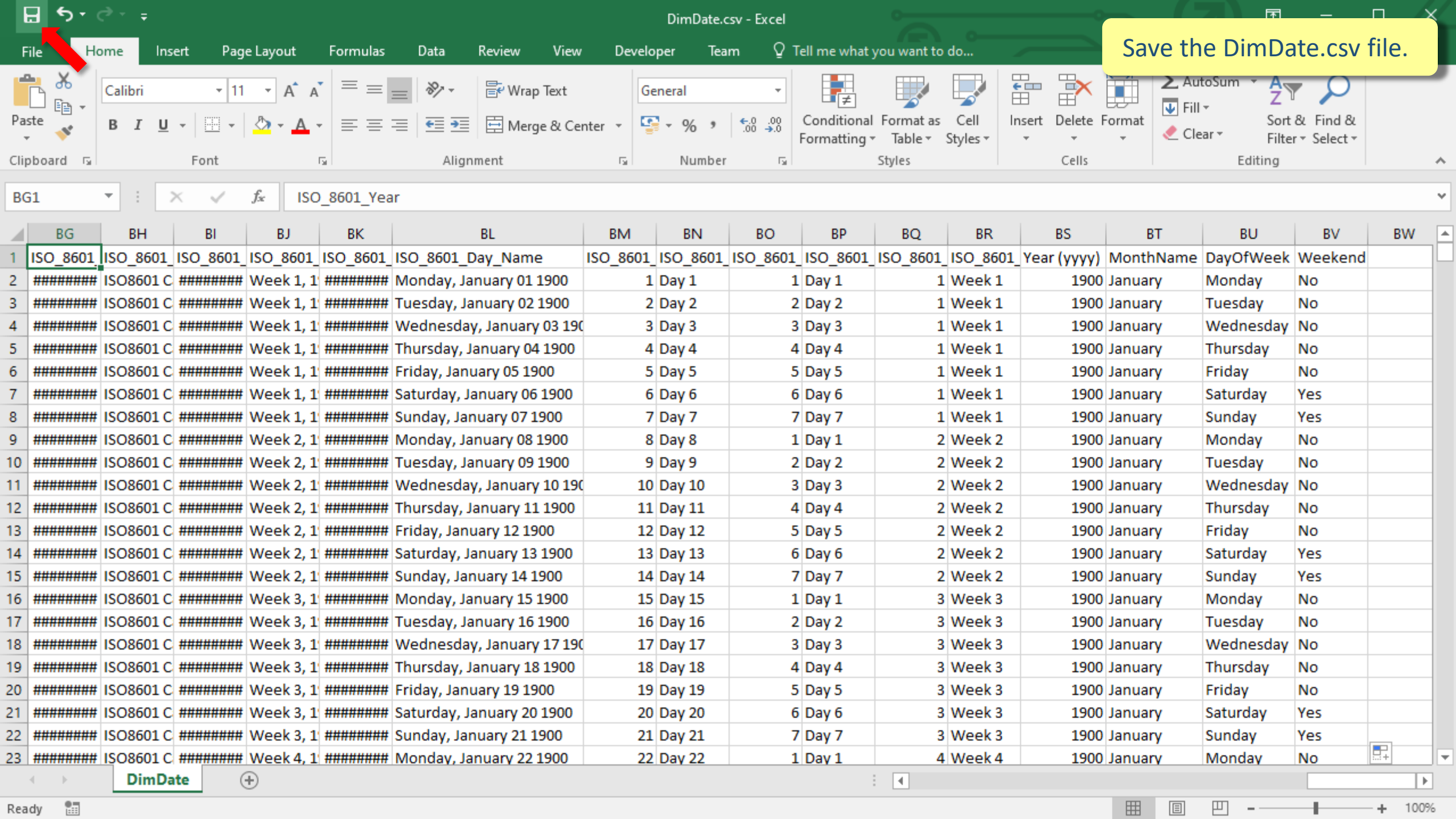
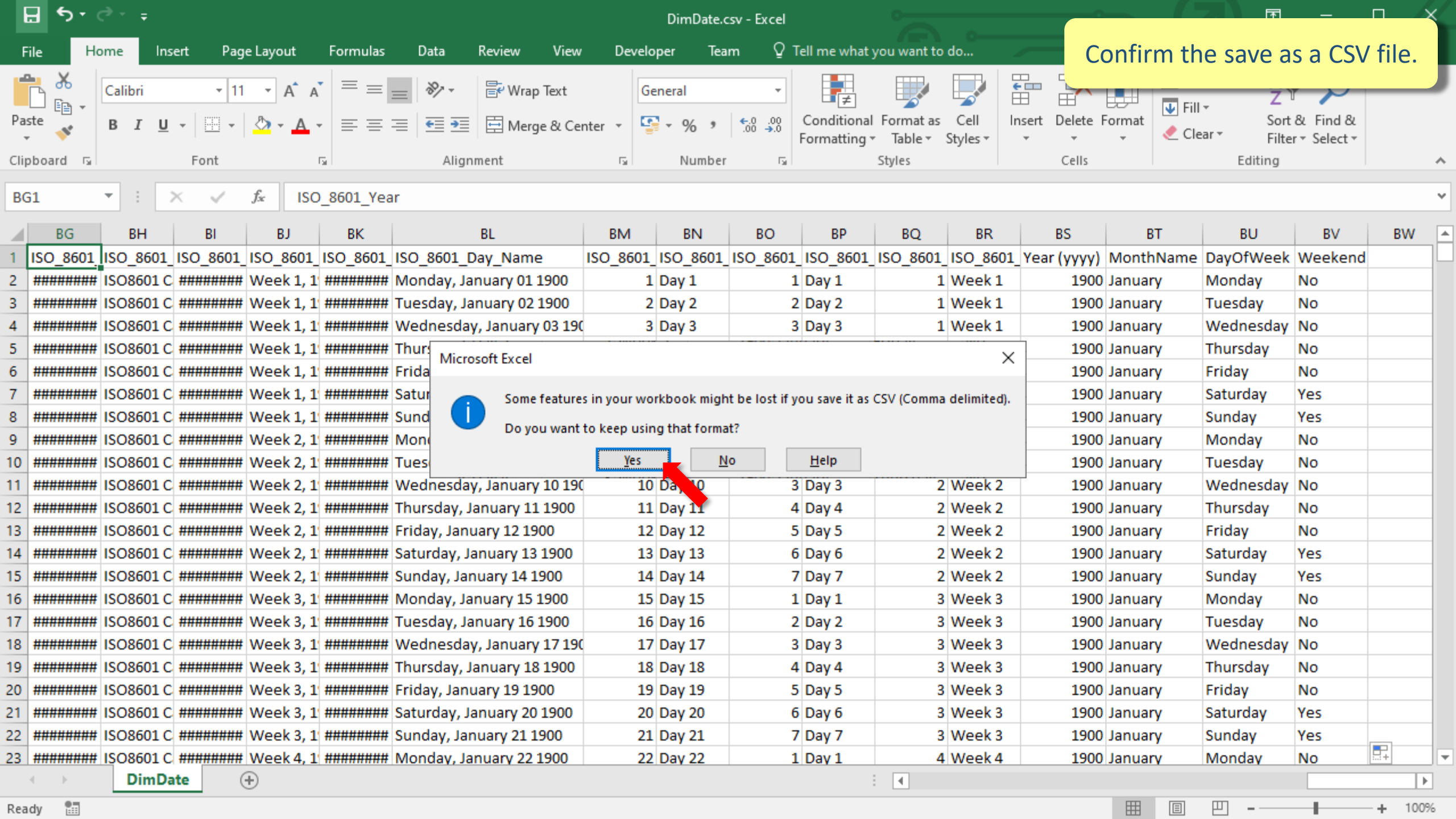
15	########	ISO8601 C	########	Week 2, 1	########	Sunday, January 14 1900	14	Day 14	7	Day 7	2	Week 2	1900	January	Sunday		
16	########	ISO8601 C	########	Week 3, 1	########	Monday, January 15 1900	15	Day 15	1	Day 1	3	Week 3	1900	January	Monday		
17	########	ISO8601 C	########	Week 3, 1	########	Tuesday, January 16 1900	16	Day 16	2	Day 2	3	Week 3	1900	January	Tuesday		
18	########	ISO8601 C	########	Week 3, 1	########	Wednesday, January 17 190	17	Day 17	3	Day 3	3	Week 3	1900	January	Wednesday		
19	########	ISO8601 C	########	Week 3, 1	########	Thursday, January 18 1900	18	Day 18	4	Day 4	3	Week 3	1900	January	Thursday		
20	########	ISO8601 C	########	Week 3, 1	########	Friday, January 19 1900	19	Day 19	5	Day 5	3	Week 3	1900	January	Friday		
21	########	ISO8601 C	########	Week 3, 1	########	Saturday, January 20 1900	20	Day 20	6	Day 6	3	Week 3	1900	January	Saturday		
22	########	ISO8601 C	########	Week 3, 1	########	Sunday, January 21 1900	21	Day 21	7	Day 7	3	Week 3	1900	January	Sunday		
23	########	ISO8601 C	########	Week 4, 1	########	Monday, January 22 1900	22	Day 22	1	Day 1	4	Week 4	1900	January	Monday		



	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW
1	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_Day_Name	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	Year (yyyy)	MonthName	DayOfWeek	Weekend	
2	########	ISO8601 C	########	Week 1, 1	########	Monday, January 01 1900	1	Day 1	1	Day 1	1	Week 1	1900	January	Monday	No	
3	########	ISO8601 C	########	Week 1, 1	########	Tuesday, January 02 1900	2	Day 2	2	Day 2	1	Week 1	1900	January	Tuesday	No	
4	########	ISO8601 C	########	Week 1, 1	########	Wednesday, January 03 190	3	Day 3	3	Day 3	1	Week 1	1900	January	Wednesday	No	
5	########	ISO8601 C	########	Week 1, 1	########	Thursday, January 04 1900	4	Day 4	4	Day 4	1	Week 1	1900	January	Thursday	No	
6	########	ISO8601 C	########	Week 1, 1	########	Friday, January 05 1900	5	Day 5	5	Day 5	1	Week 1	1900	January	Friday	No	
7	########	ISO8601 C	########	Week 1, 1	########	Saturday, January 06 1900	6	Day 6	6	Day 6	1	Week 1	1900	January	Saturday	Yes	
8	########	ISO8601 C	########	Week 1, 1	########	Sunday, January 07 1900	7	Day 7	7	Day 7	1	Week 1	1900	January	Sunday	Yes	
9	########	ISO8601 C	########	Week 2, 1	########	Monday, January 08 1900	8	Day 8	1	Day 1	2	Week 2	1900	January	Monday	No	
10	########	ISO8601 C	########	Week 2, 1	########	Tuesday, January 09 1900	9	Day 9	2	Day 2	2	Week 2	1900	January	Tuesday	No	
11	########	ISO8601 C	########	Week 2, 1	########	Wednesday, January 10 190	10	Day 10	3	Day 3	2	Week 2	1900	January	Wednesday	No	
12	########	ISO8601 C	########	Week 2, 1	########	Thursday, January 11 1900	11	Day 11	4	Day 4	2	Week 2	1900	January	Thursday	No	
13	########	ISO8601 C	########	Week 2, 1	########	Friday, January 12 1900	12	Day 12	5	Day 5	2	Week 2	1900	January	Friday	No	
14	########	ISO8601 C	########	Week 2, 1	########	Saturday, January 13 1900	13	Day 13	6	Day 6	2	Week 2	1900	January	Saturday	Yes	
15	########	ISO8601 C	########	Week 2, 1	########	Sunday, January 14 1900	14	Day 14	7	Day 7	2	Week 2	1900	January	Sunday	Yes	
16	########	ISO8601 C	########	Week 3, 1	########	Monday, January 15 1900	15	Day 15	1	Day 1	3	Week 3	1900	January	Monday	No	
17	########	ISO8601 C	########	Week 3, 1	########	Tuesday, January 16 1900	16	Day 16	2	Day 2	3	Week 3	1900	January	Tuesday	No	
18	########	ISO8601 C	########	Week 3, 1	########	Wednesday, January 17 190	17	Day 17	3	Day 3	3	Week 3	1900	January	Wednesday	No	
19	########	ISO8601 C	########	Week 3, 1	########	Thursday, January 18 1900	18	Day 18	4	Day 4	3	Week 3	1900	January	Thursday	No	
20	########	ISO8601 C	########	Week 3, 1	########	Friday, January 19 1900	19	Day 19	5	Day 5	3	Week 3	1900	January	Friday	No	
21	########	ISO8601 C	########	Week 3, 1	########	Saturday, January 20 1900	20	Day 20	6	Day 6	3	Week 3	1900	January	Saturday	Yes	
22	########	ISO8601 C	########	Week 3, 1	########	Sunday, January 21 1900	21	Day 21	7	Day 7	3	Week 3	1900	January	Sunday	Yes	
23	########	ISO8601 C	########	Week 4, 1	########	Monday, January 22 1900	22	Day 22	1	Day 1	4	Week 4	1900	January	Monday	No	



BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW
ISO_8601	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_Day_Name	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	ISO_8601_	Year (yyyy)	MonthName	DayOfWeek	Weekend	
########	ISO8601 C	########	Week 1, 1	########	Monday, January 01 1900	1	Day 1	1	Day 1	1	Week 1	1900	January	Monday	No	
########	ISO8601 C	########	Week 1, 1	########	Tuesday, January 02 1900	2	Day 2	2	Day 2	1	Week 1	1900	January	Tuesday	No	
########	ISO8601 C	########	Week 1, 1	########	Wednesday, January 03 190	3	Day 3	3	Day 3	1	Week 1	1900	January	Wednesday	No	
########	ISO8601 C	########	Week 1, 1	########	Thursday, January 04 1900	4	Day 4	4	Day 4	1	Week 1	1900	January	Thursday	No	
########	ISO8601 C	########	Week 1, 1	########	Friday, January 05 1900	5	Day 5	5	Day 5	1	Week 1	1900	January	Friday	No	
########	ISO8601 C	########	Week 1, 1	########	Saturday, January 06 1900	6	Day 6	6	Day 6	1	Week 1	1900	January	Saturday	Yes	
########	ISO8601 C	########	Week 1, 1	########	Sunday, January 07 1900	7	Day 7	7	Day 7	1	Week 1	1900	January	Sunday	Yes	
########	ISO8601 C	########	Week 2, 1	########	Monday, January 08 1900	8	Day 8	1	Day 1	2	Week 2	1900	January	Monday	No	
########	ISO8601 C	########	Week 2, 1	########	Tuesday, January 09 1900	9	Day 9	2	Day 2	2	Week 2	1900	January	Tuesday	No	
########	ISO8601 C	########	Week 2, 1	########	Wednesday, January 10 190	10	Day 10	3	Day 3	2	Week 2	1900	January	Wednesday	No	
########	ISO8601 C	########	Week 2, 1	########	Thursday, January 11 1900	11	Day 11	4	Day 4	2	Week 2	1900	January	Thursday	No	
########	ISO8601 C	########	Week 2, 1	########	Friday, January 12 1900	12	Day 12	5	Day 5	2	Week 2	1900	January	Friday	No	
########	ISO8601 C	########	Week 2, 1	########	Saturday, January 13 1900	13	Day 13	6	Day 6	2	Week 2	1900	January	Saturday	Yes	
########	ISO8601 C	########	Week 2, 1	########	Sunday, January 14 1900	14	Day 14	7	Day 7	2	Week 2	1900	January	Sunday	Yes	
########	ISO8601 C	########	Week 3, 1	########	Monday, January 15 1900	15	Day 15	1	Day 1	3	Week 3	1900	January	Monday	No	
########	ISO8601 C	########	Week 3, 1	########	Tuesday, January 16 1900	16	Day 16	2	Day 2	3	Week 3	1900	January	Tuesday	No	
########	ISO8601 C	########	Week 3, 1	########	Wednesday, January 17 190	17	Day 17	3	Day 3	3	Week 3	1900	January	Wednesday	No	
########	ISO8601 C	########	Week 3, 1	########	Thursday, January 18 1900	18	Day 18	4	Day 4	3	Week 3	1900	January	Thursday	No	
########	ISO8601 C	########	Week 3, 1	########	Friday, January 19 1900	19	Day 19	5	Day 5	3	Week 3	1900	January	Friday	No	
########	ISO8601 C	########	Week 3, 1	########	Saturday, January 20 1900	20	Day 20	6	Day 6	3	Week 3	1900	January	Saturday	Yes	
########	ISO8601 C	########	Week 3, 1	########	Sunday, January 21 1900	21	Day 21	7	Day 7	3	Week 3	1900	January	Sunday	Yes	
########	ISO8601 C	########	Week 4, 1	########	Monday, January 22 1900	22	Day 22	1	Day 1	4	Week 4	1900	January	Monday	No	


DimDate.csv - Excel
Confirm the save as a CSV file.
Microsoft Excel
Some features in your workbook might be lost if you save it as CSV (Comma delimited).
Do you want to keep using that format?
Yes
No
Help
DimDate
Ready

Next you will use the data from the *CSV Date* dimension (now including all the needed attributes) to load the *Date* dimension of the *Data Mart* project.

Start Page - Microsoft Visual Studio

File Edit View Project Debug Team Tools Test Analyze Window Help

Quick Launch (Ctrl+Q)

Attach...

Server Explorer Toolbox SSIS Toolbox

Start Page

Get Started

Build your first app in 5 minutes!

Maximize your productivity with these tips and tricks for Visual Studio

Take advantage of the newest technologies to deploy beautiful, low-cost and reliable websites

Develop modern, fully-native, Android and iOS apps

Produce more, fix faster and deliver updates seamlessly

Recent

This week

Data Mart.sln
D:\Temp\ARPAD\Data Mart

Create Date Dimension 2.sln
D:\Temp\ARPAD\Create Date Dimension 2

Create CSV Date Dimension.sln
D:\Temp\ARPAD\Create CSV Date Dimension

Open

Get code from a remote version control system or open something on your local drive.

Checkout from:

Azure DevOps

Open Project / Solution

Open Folder

New project

Search project templates

Recent project templates:

Analysis Services M... Analysis Services

Integration Serv... Business Intelligence

Analysis Services M... Analysis Services

Create new project...

Developer News

Visual Studio 2019 v16.8 and v16.9 Preview 1 Release
Visual Studio team is proud to announce the release of Visual Studio 2019 v16.8 and v16.9 Preview 1. These releases have several notable f...
NEW 12 de novembro de 2020

Announcing the Release of the Git Experience in Visual Studio
We're excited to announce that our new Git tooling is now the default source control experience in Visual Studio 2019, beginning wit...
NEW 12 de novembro de 2020

Announcing .NET 5.0
We're excited to release .NET 5.0 today and for you to start using it. It's a major release — including C# 9 and F# 5 — with a broad set of n...
NEW 12 de novembro de 2020

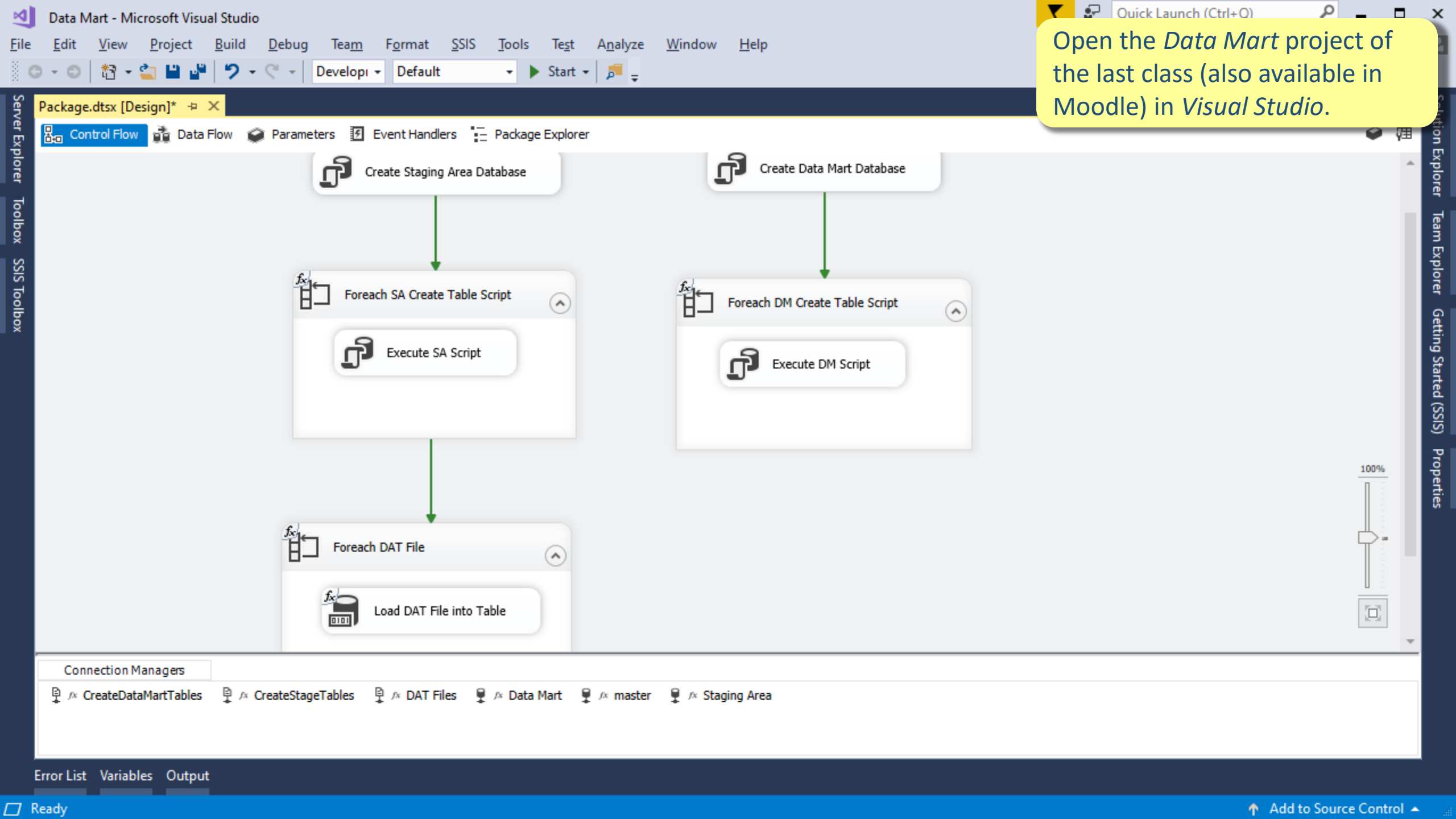
Announcing ASP.NET Core in .NET 5

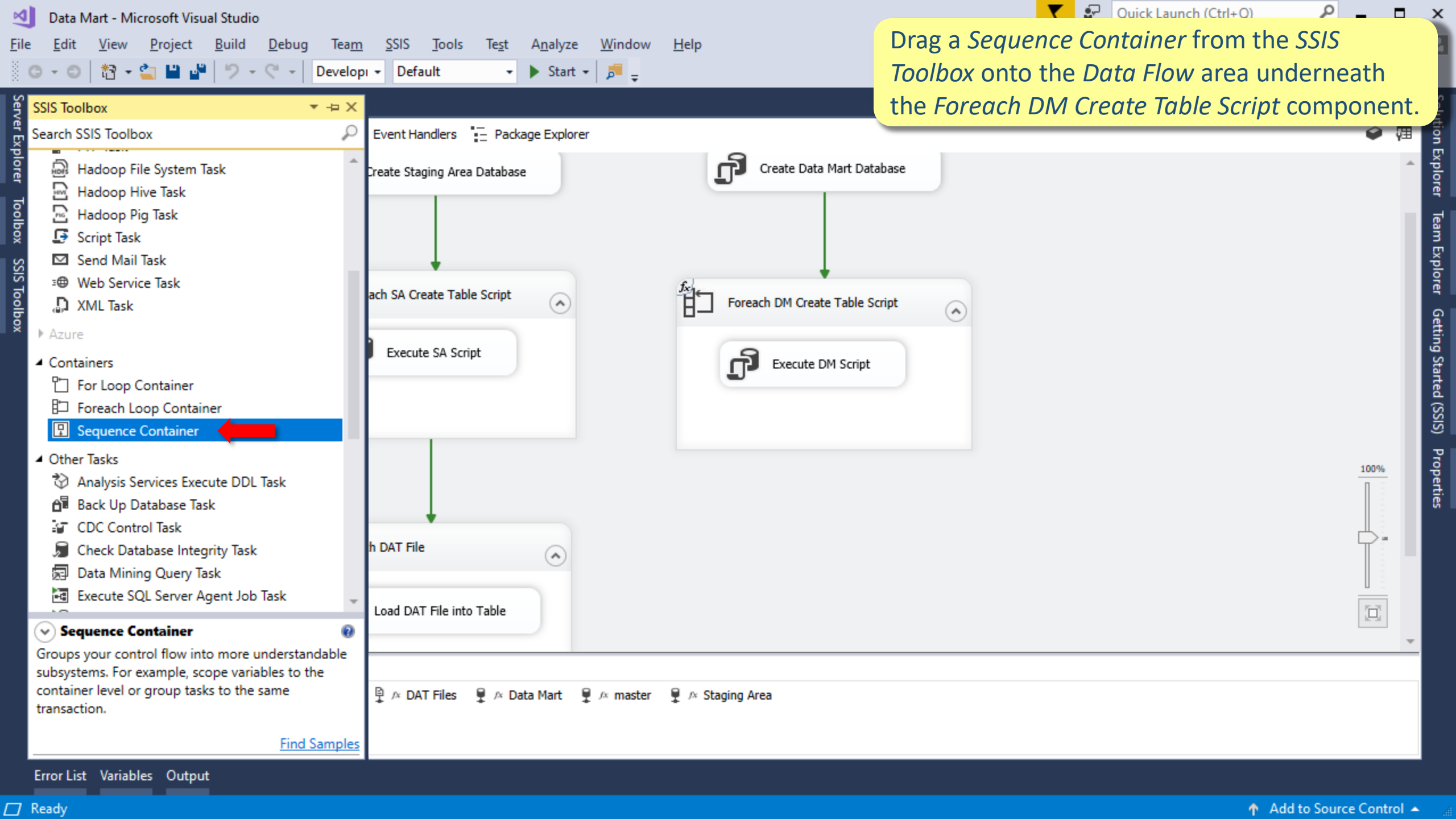
More news...

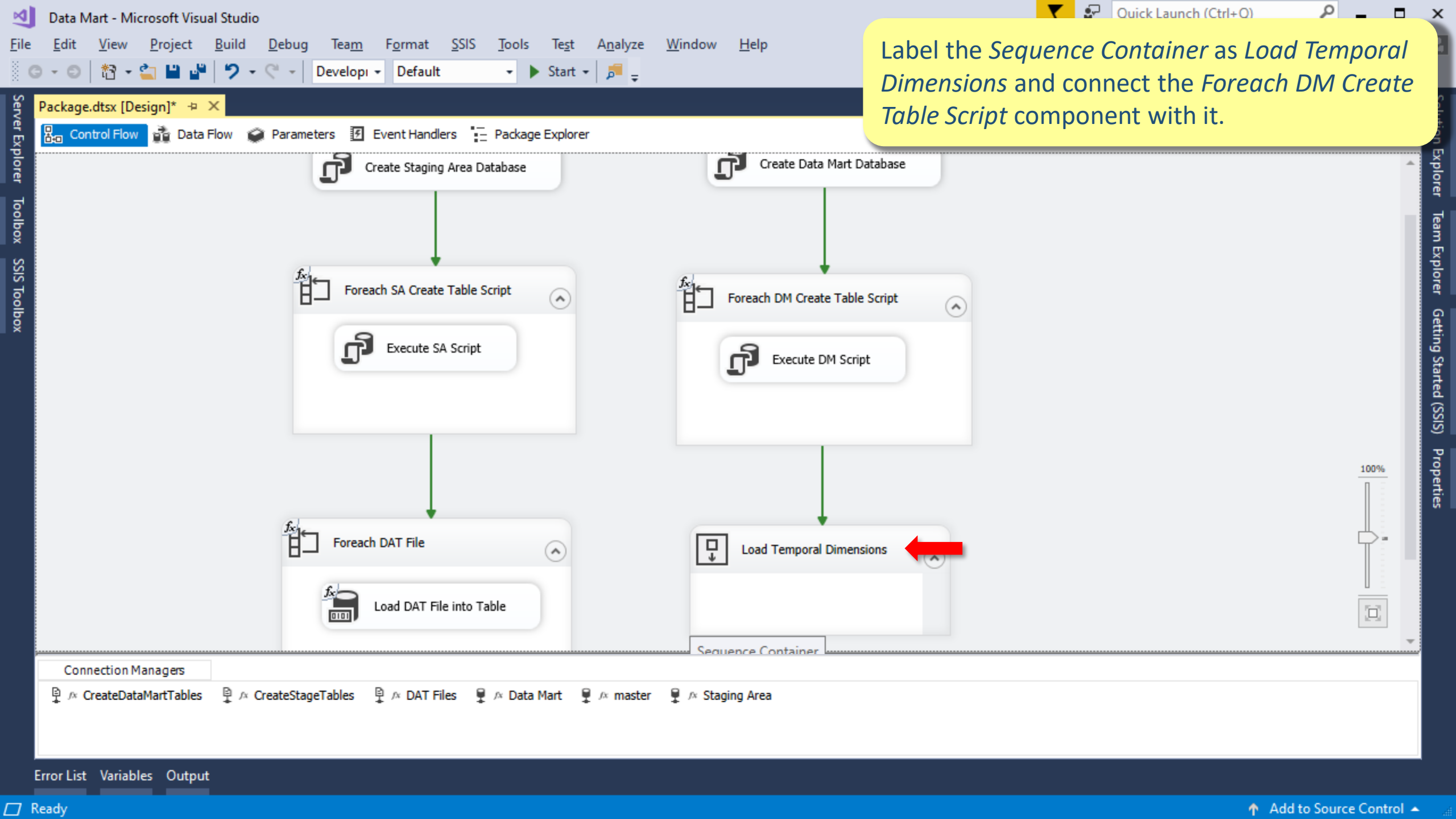
Solution Explorer Team Explorer Getting Started (SSIS)

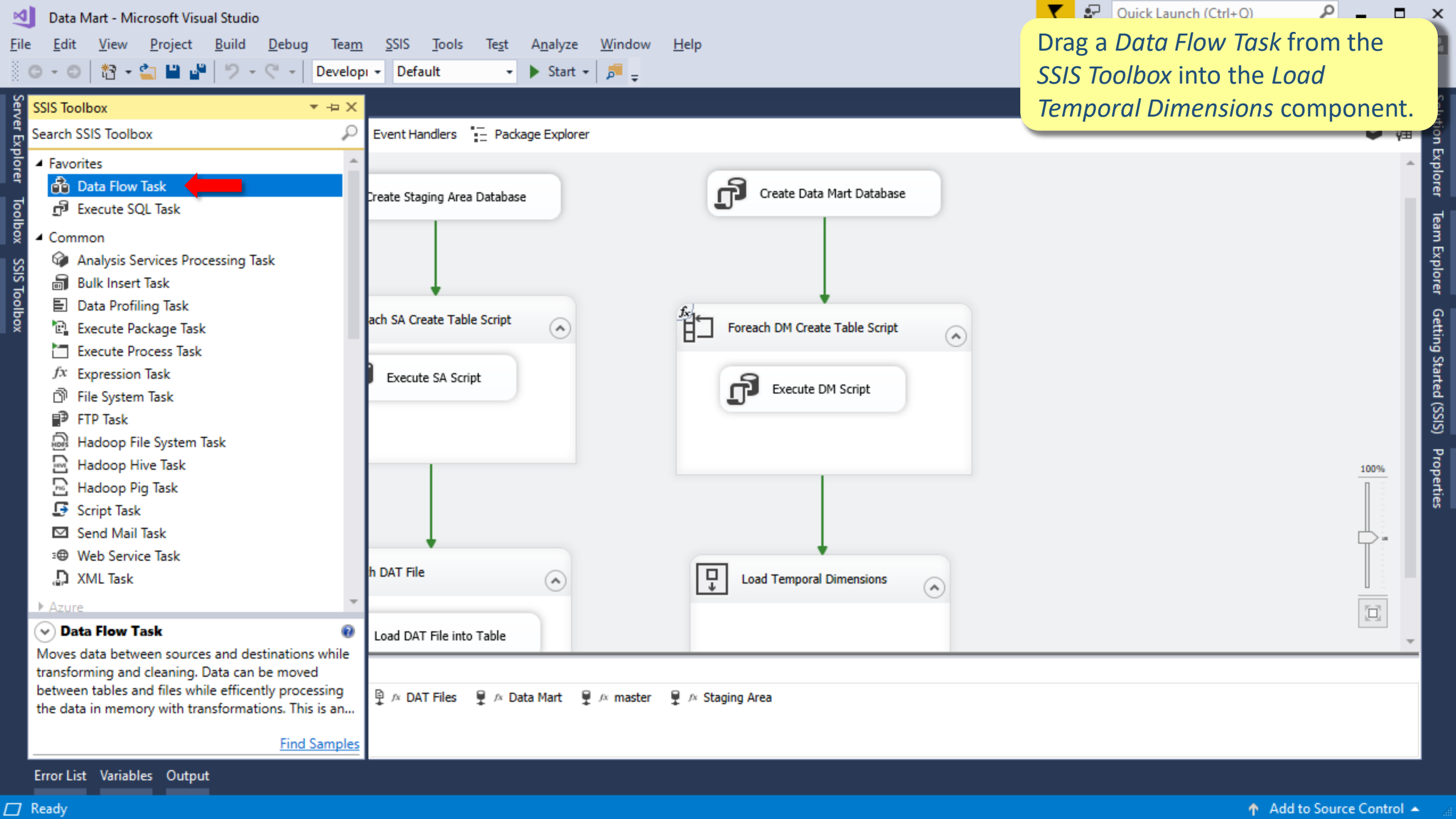
Error List Variables Output

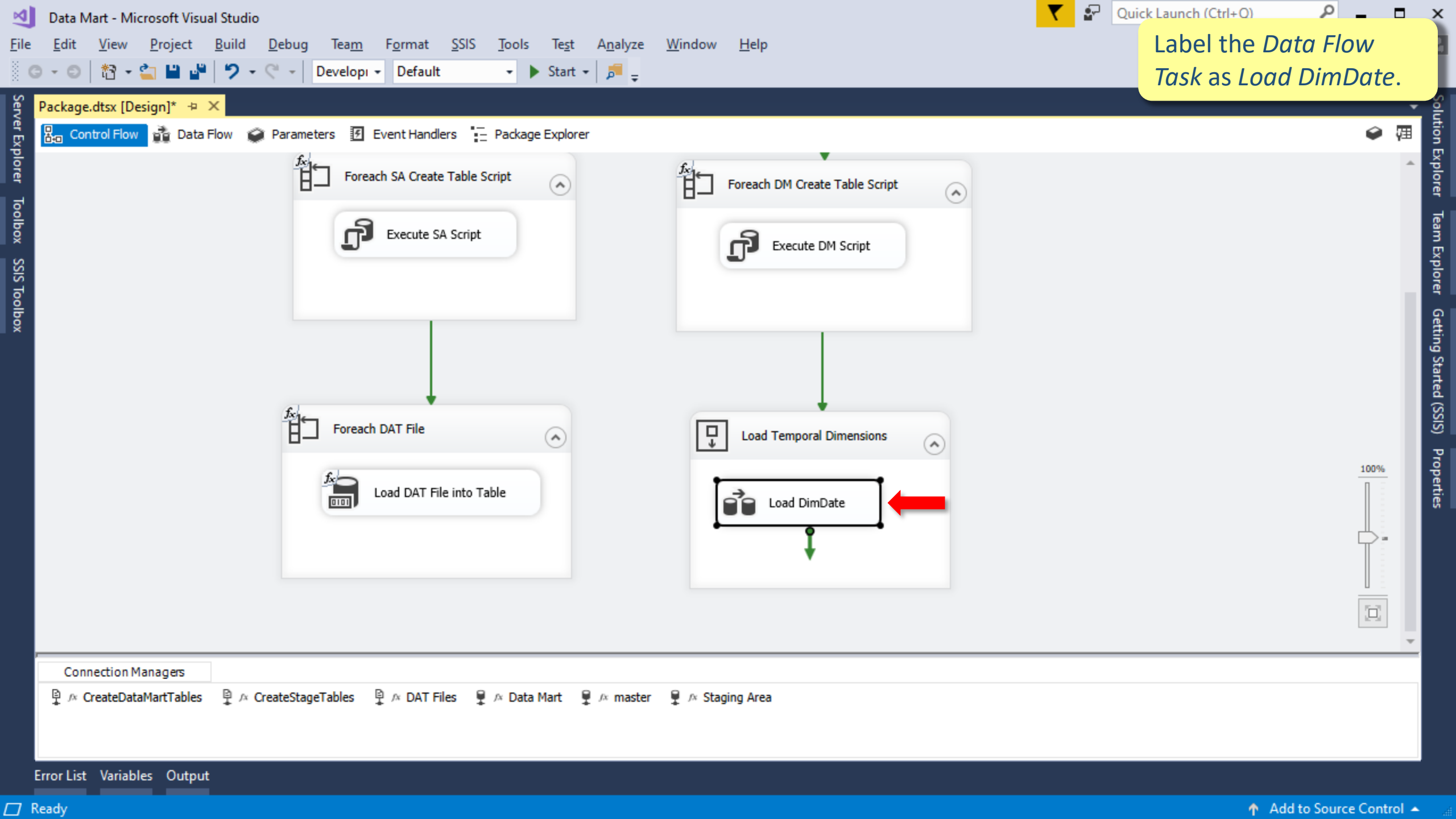
Ready

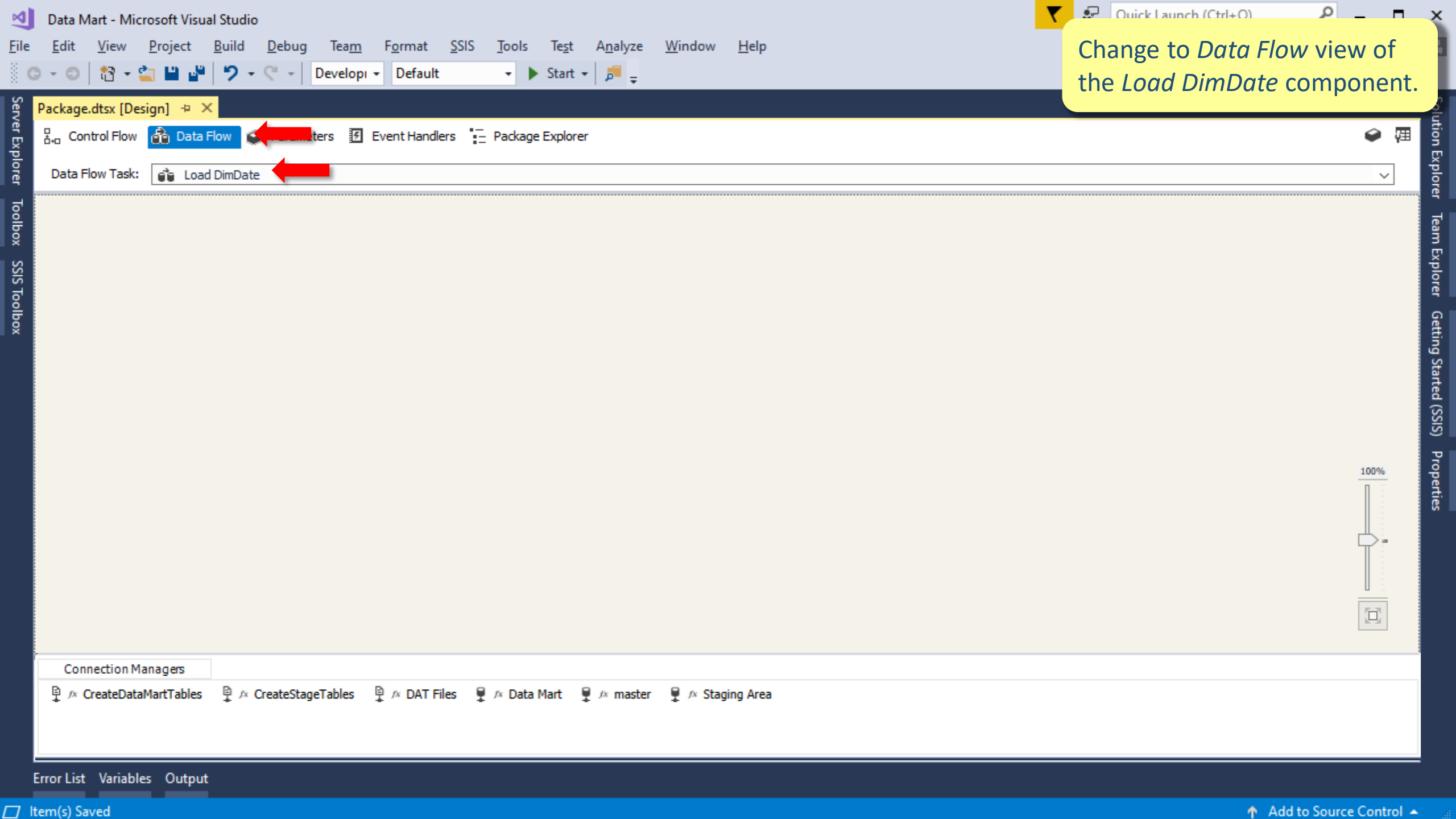

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Open the *Data Mart* project of the last class (also available in Moodle) in *Visual Studio*.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Create Staging Area Database
Create Data Mart Database
Foreach SA Create Table Script
Execute SA Script
Foreach DM Create Table Script
Execute DM Script
Foreach DAT File
Load DAT File into Table
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
Error List
Variables
Output
Ready
Add to Source Control

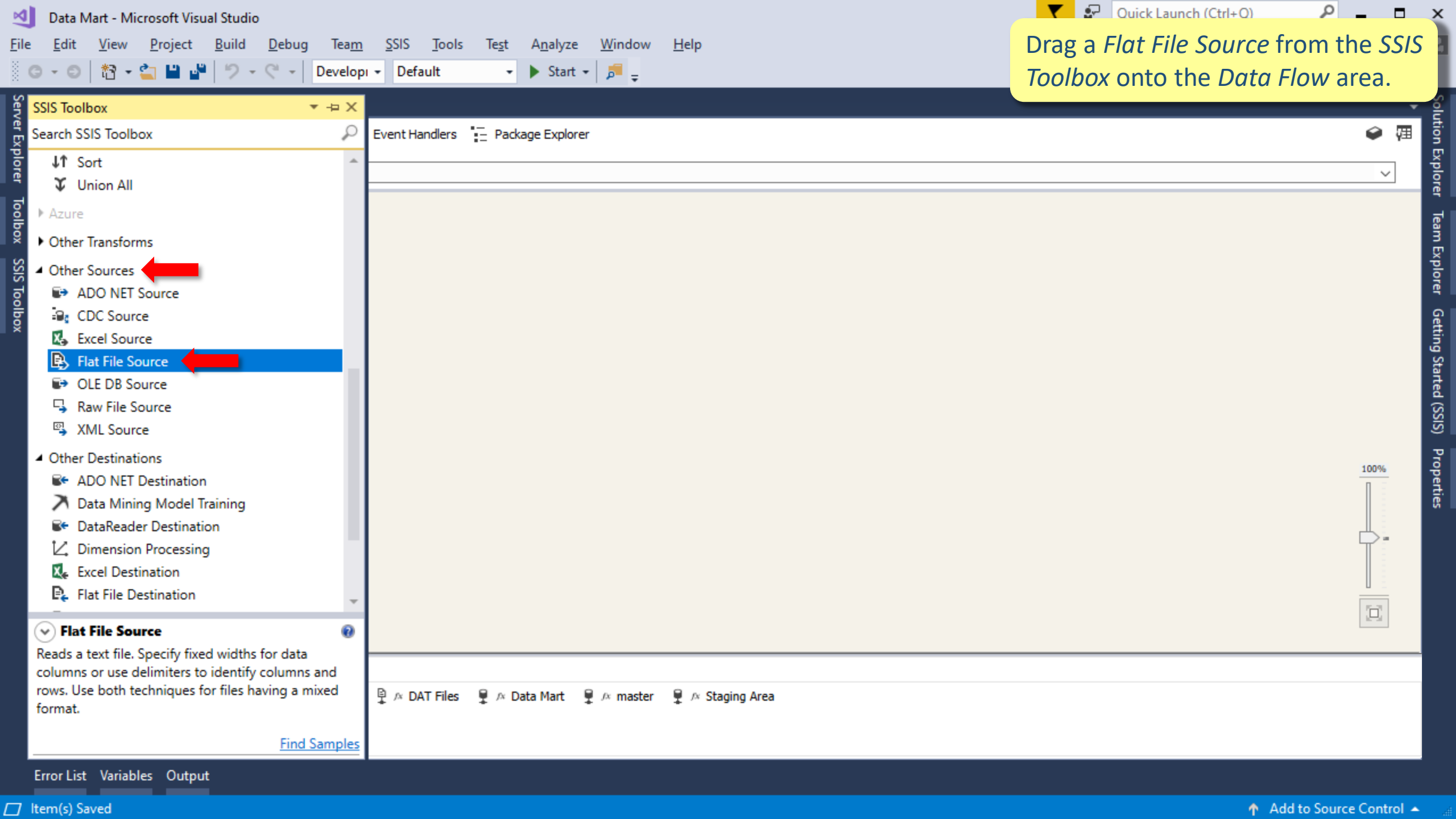

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Drag a *Sequence Container* from the *SSIS Toolbox* onto the *Data Flow* area underneath the *Foreach DM Create Table Script* component.
SSIS Toolbox
Search SSIS Toolbox
Hadoop File System Task
Hadoop Hive Task
Hadoop Pig Task
Script Task
Send Mail Task
Web Service Task
XML Task
Azure
Containers
For Loop Container
Foreach Loop Container
Sequence Container
Other Tasks
Analysis Services Execute DDL Task
Back Up Database Task
CDC Control Task
Check Database Integrity Task
Data Mining Query Task
Execute SQL Server Agent Job Task
Sequence Container
Groups your control flow into more understandable subsystems. For example, scope variables to the container level or group tasks to the same transaction.
Find Samples
Event Handlers
Package Explorer
Create Staging Area Database
Create Data Mart Database
ach SA Create Table Script
Execute SA Script
Foreach DM Create Table Script
Execute DM Script
h DAT File
Load DAT File into Table
100%
DAT Files
Data Mart
master
Staging Area
Error List
Variables
Output
Ready
Add to Source Control

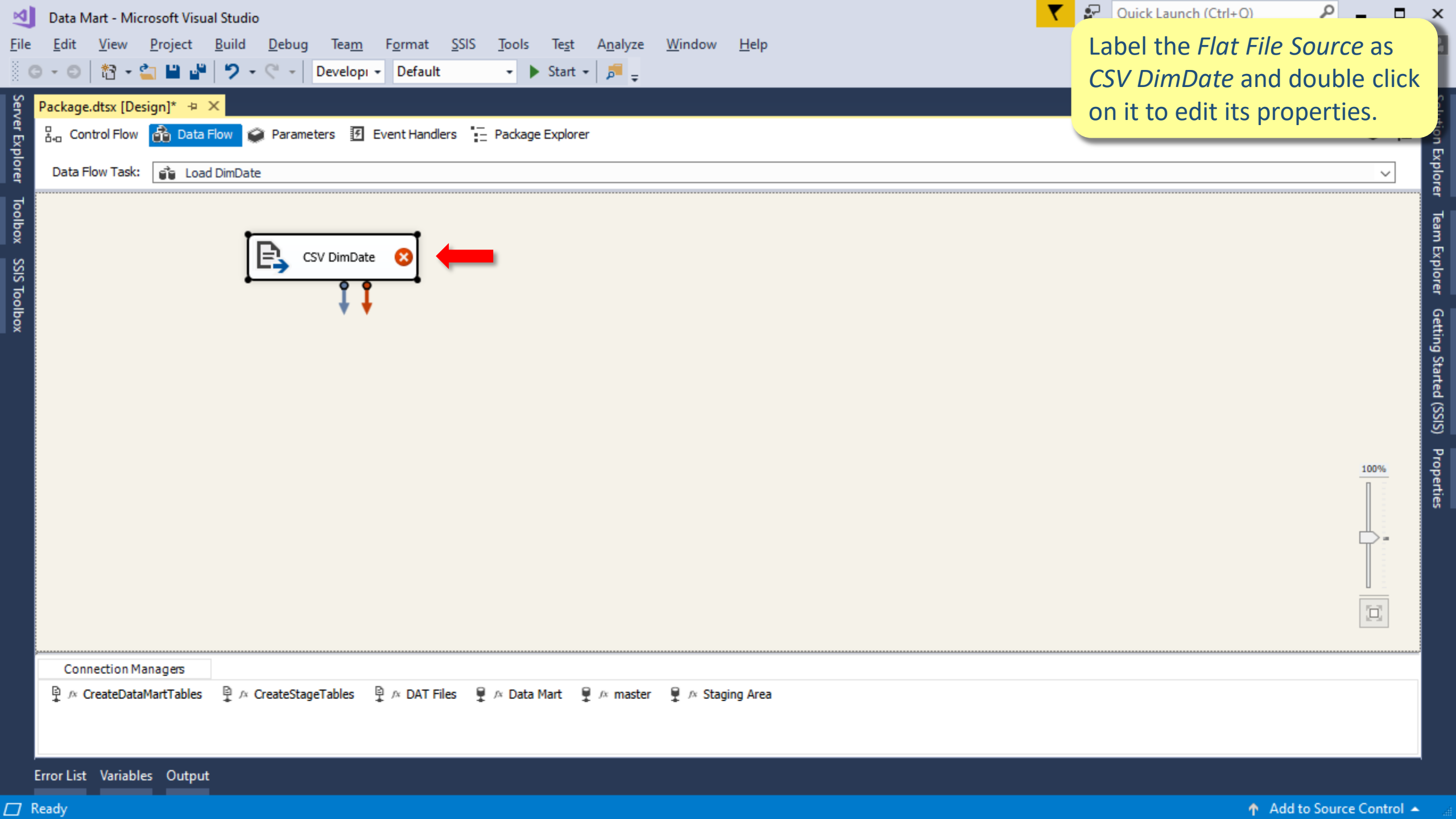

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Label the *Sequence Container* as *Load Temporal Dimensions* and connect the *Foreach DM Create Table Script* component with it.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Create Staging Area Database
Create Data Mart Database
Foreach SA Create Table Script
Execute SA Script
Foreach DM Create Table Script
Execute DM Script
Foreach DAT File
Load DAT File into Table
Load Temporal Dimensions
Sequence Container
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
Error List
Variables
Output
Ready
Add to Source Control

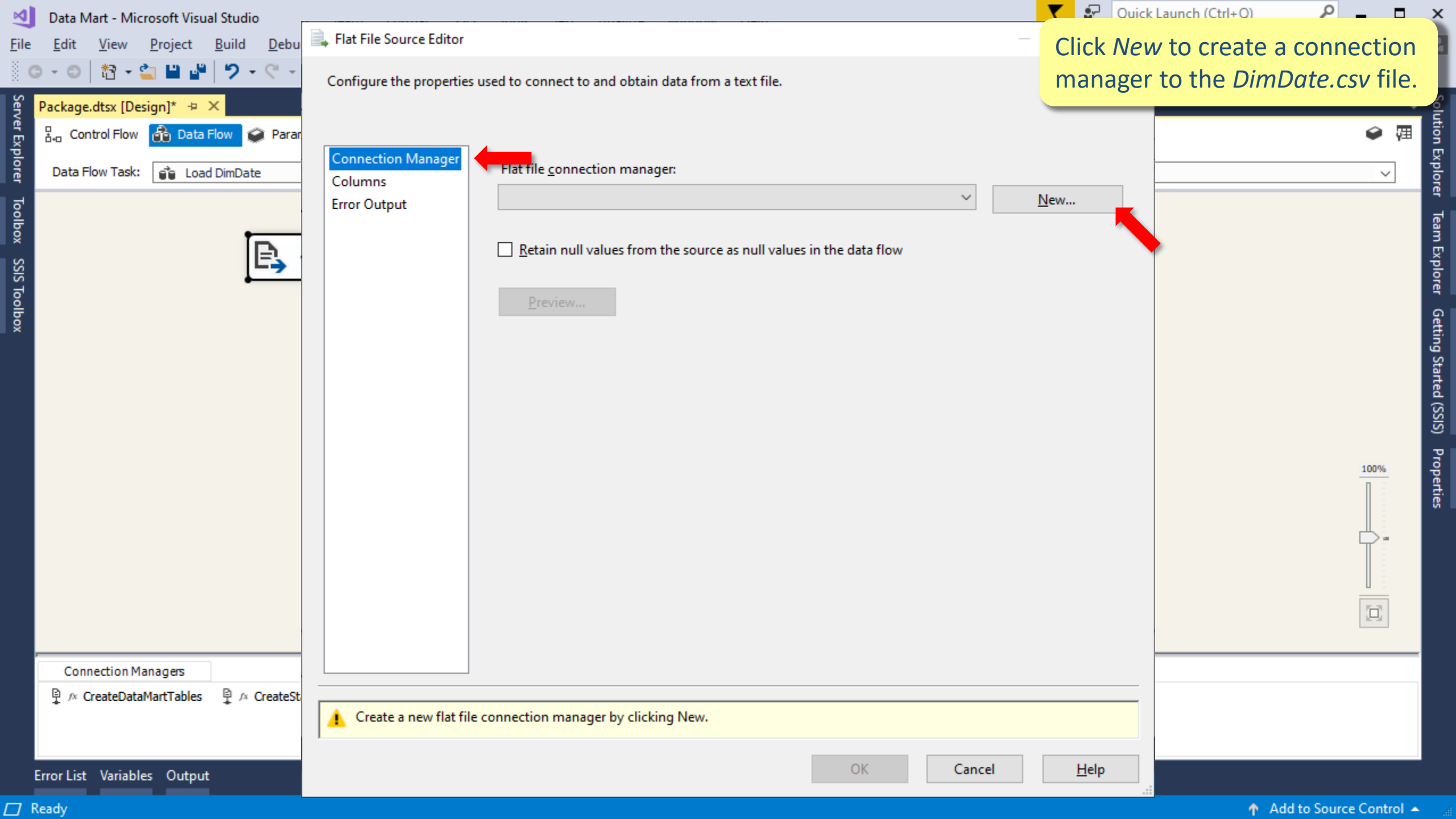

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Start
Drag a *Data Flow Task* from the *SSIS Toolbox* into the *Load Temporal Dimensions* component.
SSIS Toolbox
Search SSIS Toolbox
Favorites
Data Flow Task
Execute SQL Task
Common
Analysis Services Processing Task
Bulk Insert Task
Data Profiling Task
Execute Package Task
Execute Process Task
Expression Task
File System Task
FTP Task
Hadoop File System Task
Hadoop Hive Task
Hadoop Pig Task
Script Task
Send Mail Task
Web Service Task
XML Task
Azure
Data Flow Task
Moves data between sources and destinations while transforming and cleaning. Data can be moved between tables and files while efficently processing the data in memory with transformations. This is an...
Find Samples
Event Handlers
Package Explorer
Create Staging Area Database
Create Data Mart Database
ach SA Create Table Script
Execute SA Script
Foreach DM Create Table Script
Execute DM Script
h DAT File
Load DAT File into Table
Load Temporal Dimensions
100%
DAT Files
Data Mart
master
Staging Area
Error List
Variables
Output
Ready
Add to Source Control

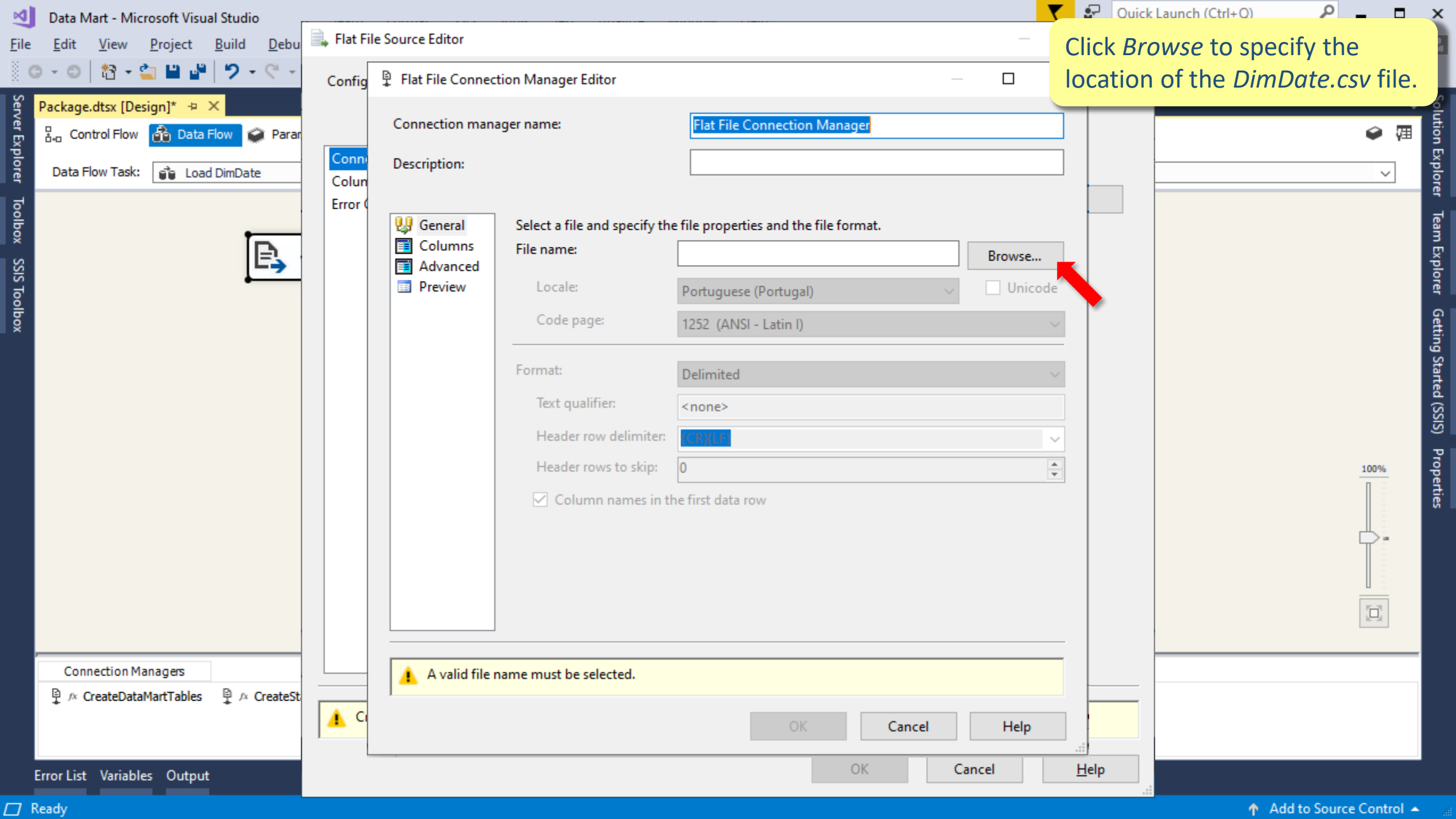

Data Mart - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Label the *Data Flow Task* as *Load DimDate*.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Foreach SA Create Table Script
Execute SA Script
Foreach DM Create Table Script
Execute DM Script
Foreach DAT File
Load DAT File into Table
Load Temporal Dimensions
Load DimDate
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties

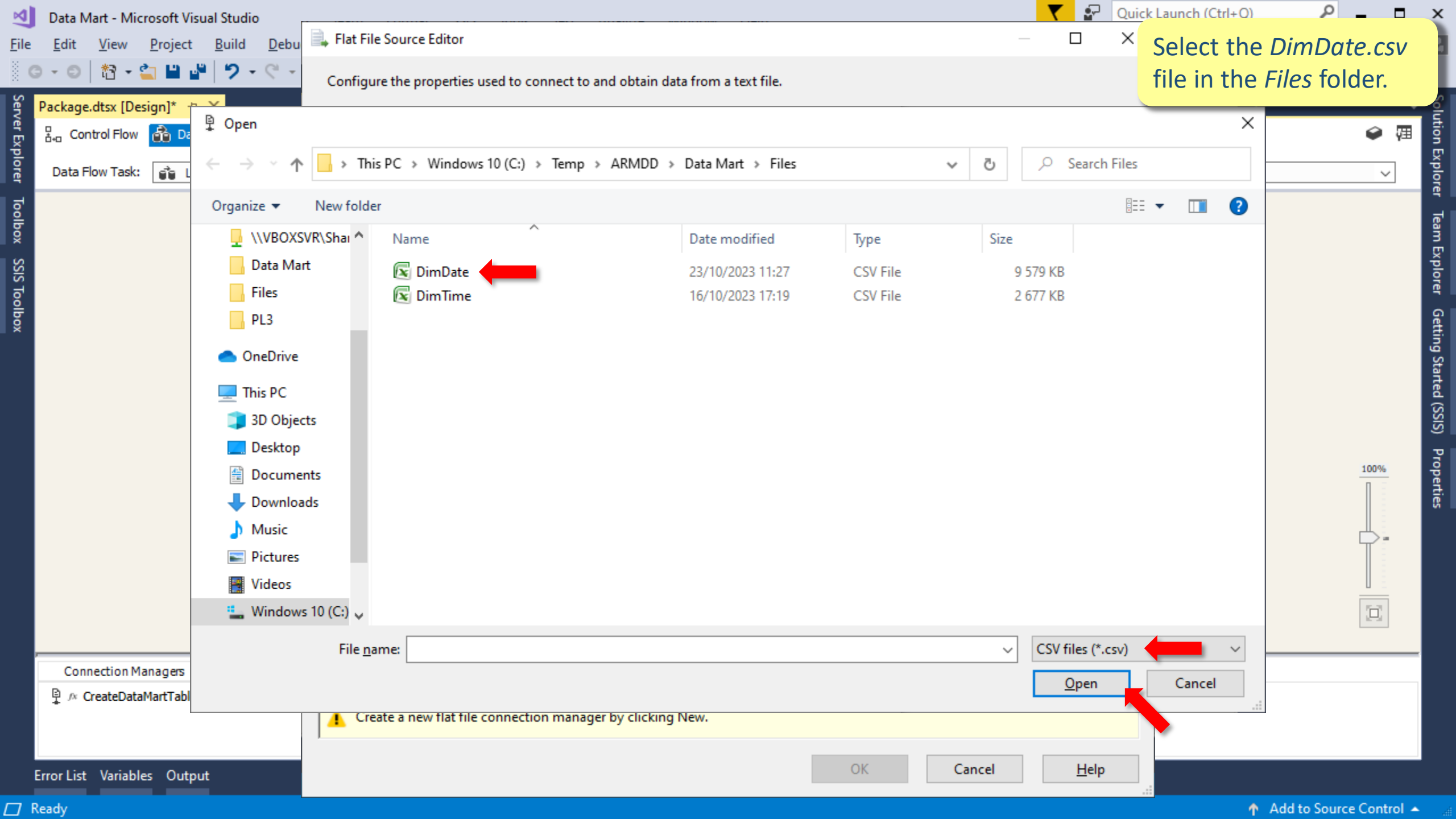

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Start
Package.dtsx [Design]
Control Flow
Data Flow
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
Error List
Variables
Output
Item(s) Saved
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Team Explorer
Getting Started (SSIS)
Properties
Change to *Data Flow* view of the *Load DimDate* component.

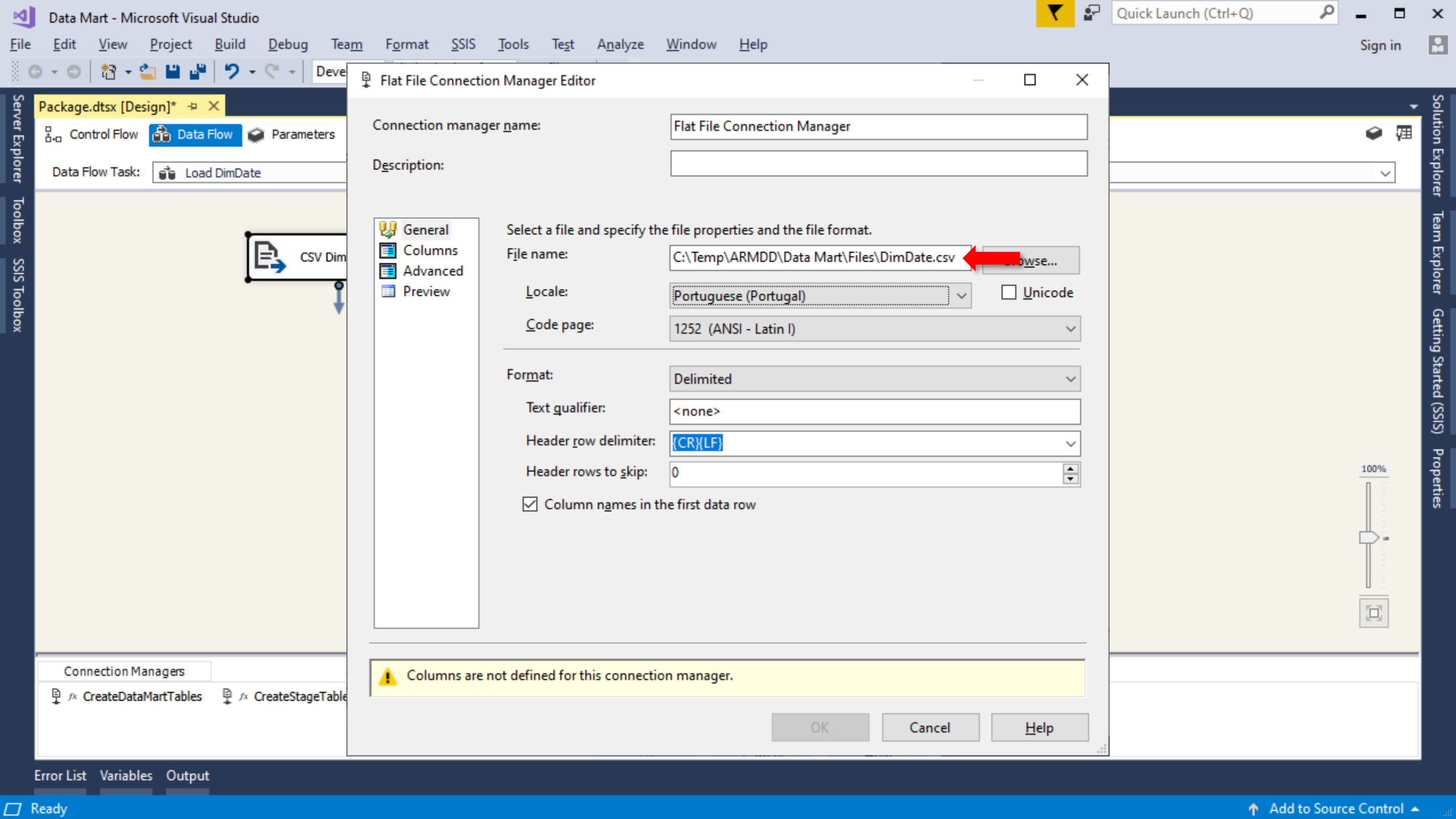

Data Mart - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Start
Drag a *Flat File Source* from the *SSIS Toolbox* onto the *Data Flow* area.
SSIS Toolbox
Search SSIS Toolbox
Sort
Union All
Azure
Other Transforms
Other Sources
ADO NET Source
CDC Source
Excel Source
Flat File Source
OLE DB Source
Raw File Source
XML Source
Other Destinations
ADO NET Destination
Data Mining Model Training
DataReader Destination
Dimension Processing
Excel Destination
Flat File Destination
Flat File Source
Reads a text file. Specify fixed widths for data columns or use delimiters to identify columns and rows. Use both techniques for files having a mixed format.
Find Samples
Event Handlers
Package Explorer
100%
DAT Files
Data Mart
master
Staging Area
Error List
Variables
Output
Item(s) Saved
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties

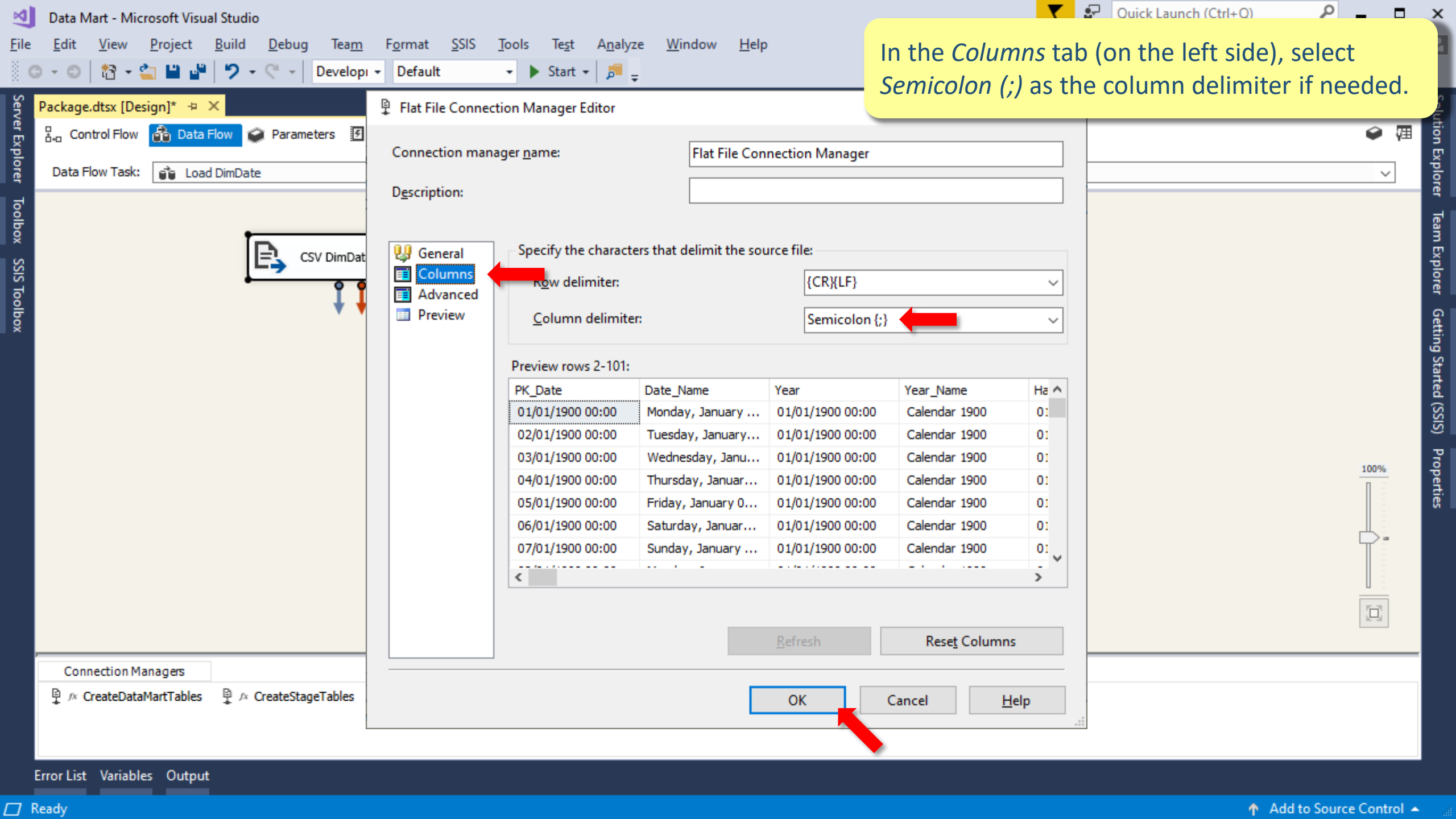

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Label the *Flat File Source* as *CSV DimDate* and double click on it to edit its properties.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
CSV DimDate
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Team Explorer
Getting Started (SSIS)
Properties

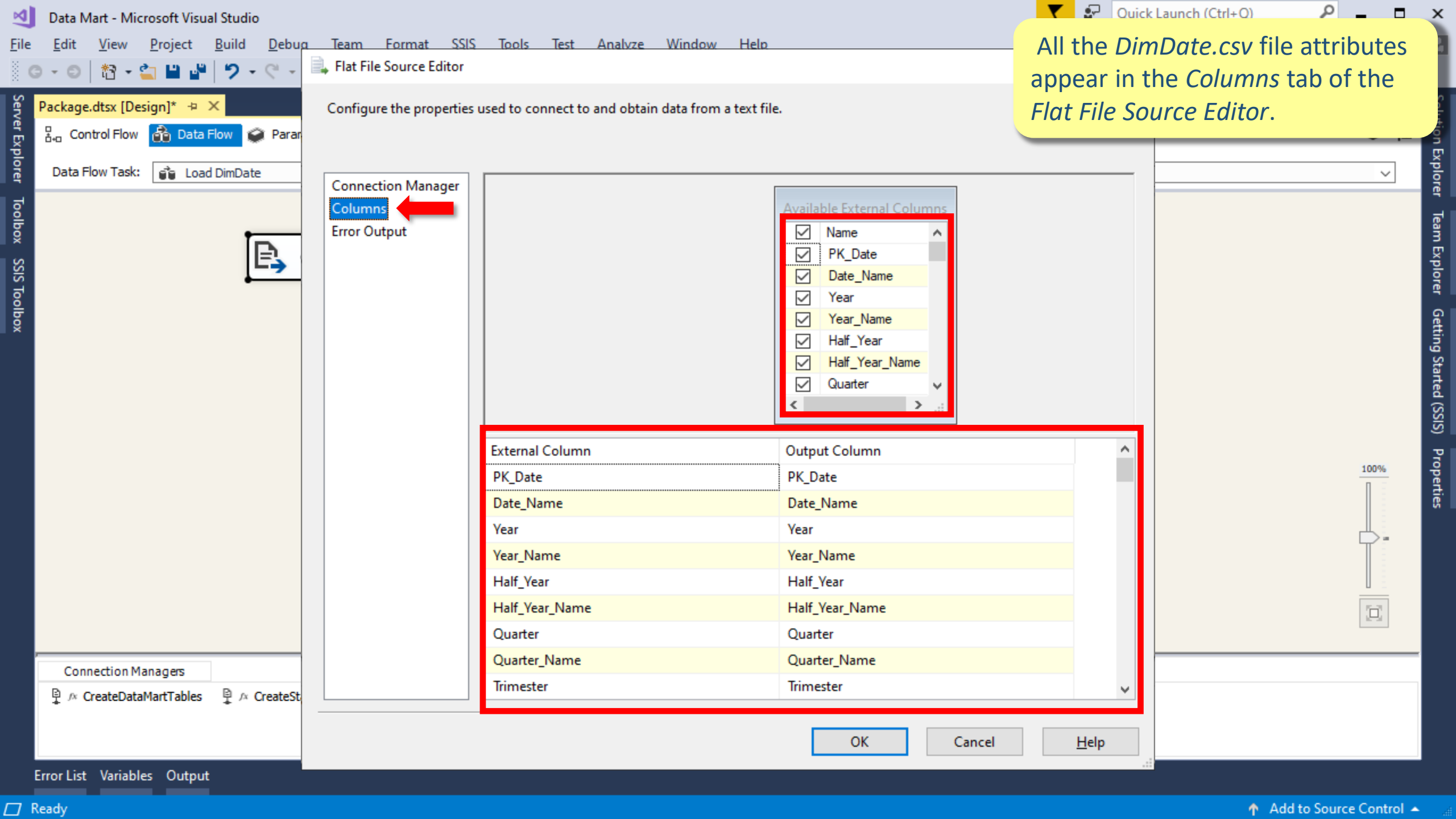

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debu
Quick Launch (Ctrl+Q)
Package.dtsx [Design]*
Control Flow
Data Flow
Data Flow Task:
Load DimDate
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties
100%
Connection Managers
CreateDataMartTables
Error List
Variables
Output
Ready
Add to Source Control
Flat File Source Editor
Configure the properties used to connect to and obtain data from a text file.
Connection Manager
Columns
Error Output
Flat file connection manager:
New...
Retain null values from the source as null values in the data flow
Preview...
Create a new flat file connection manager by clicking New.
OK
Cancel
Help
Click New to create a connection manager to the DimDate.csv file.

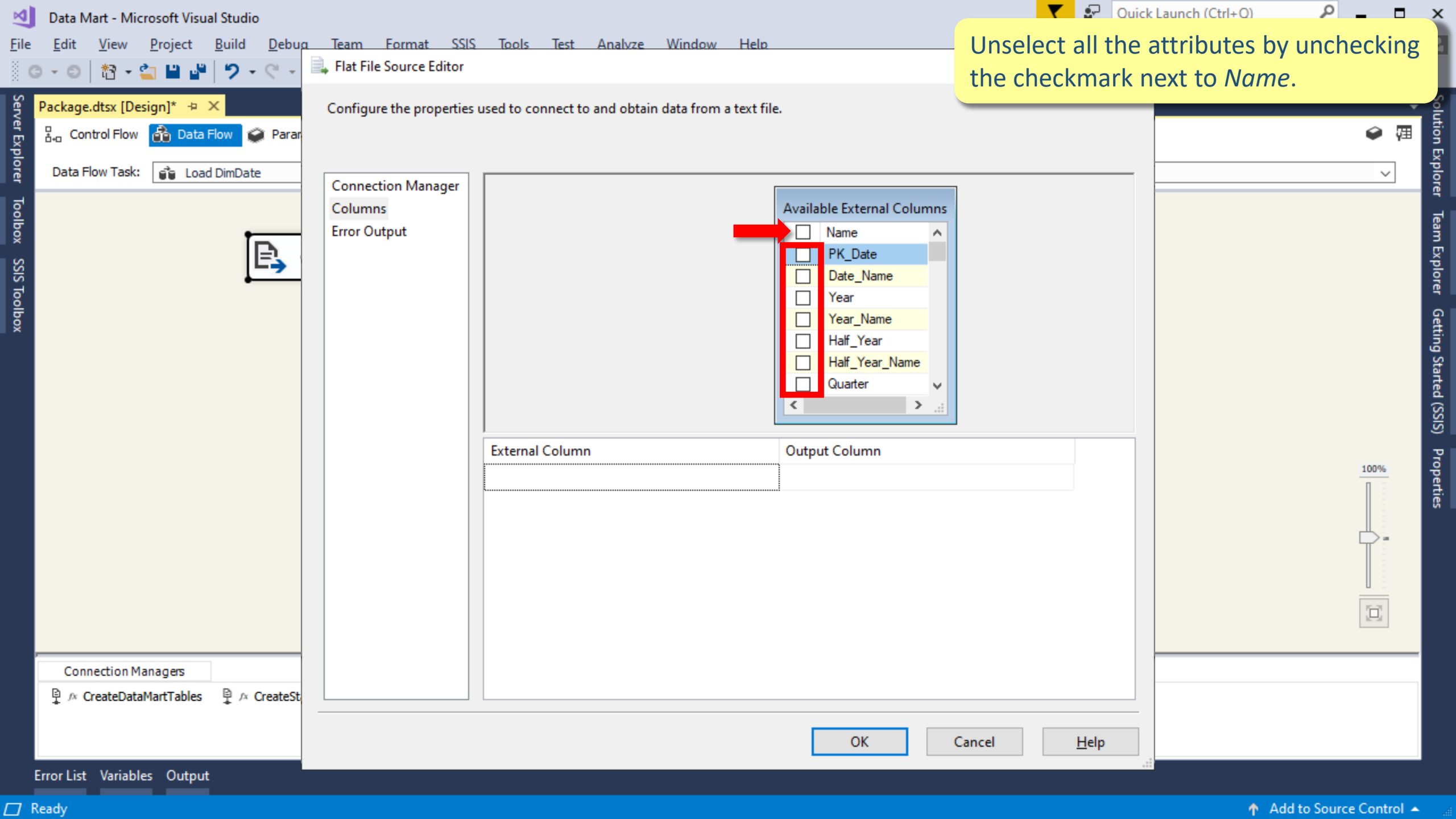

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debu
Quick Launch (Ctrl+Q)
Package.dtsx [Design]*
Control Flow
Data Flow
Data Flow Task:
Load DimDate
Server Explorer
Toolbox
SSIS Toolbox
Flat File Source Editor
Flat File Connection Manager Editor
Connection manager name:
Flat File Connection Manager
Description:
General
Columns
Advanced
Preview
Select a file and specify the file properties and the file format.
File name:
Browse...
Locale:
Portuguese (Portugal)
Unicode
Code page:
1252 (ANSI - Latin I)
Format:
Delimited
Text qualifier:
<none>
Header row delimiter:
{CR}{LF}
Header rows to skip:
0
Column names in the first data row
A valid file name must be selected.
OK
Cancel
Help
Click Browse to specify the location of the DimDate.csv file.
Connection Managers
CreateDataMartTables
Error List
Variables
Output
Ready
Add to Source Control
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties
100%

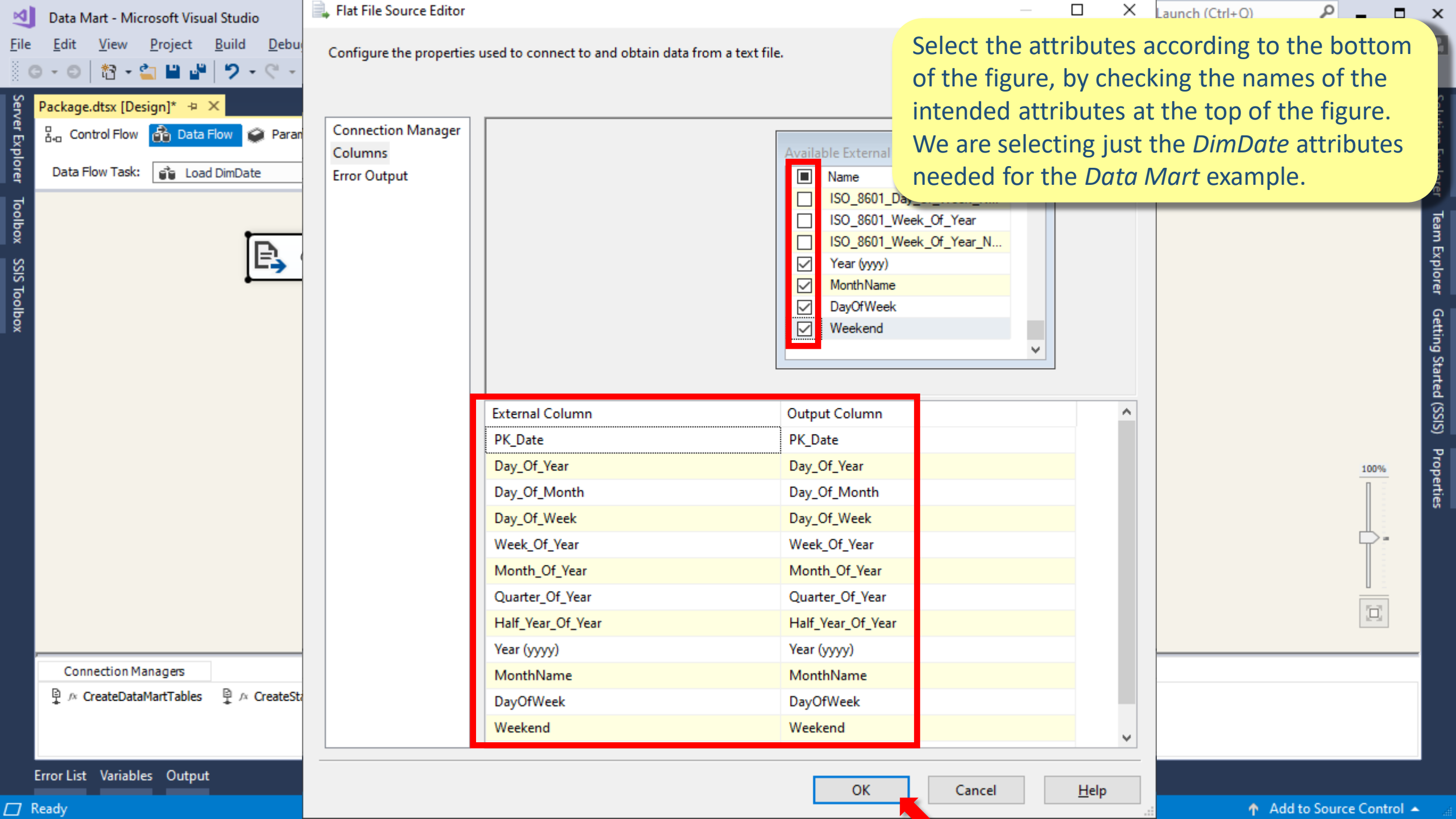

Data Mart - Microsoft Visual Studio
Flat File Source Editor
Configure the properties used to connect to and obtain data from a text file.
Select the *DimDate.csv* file in the *Files* folder.
Open
This PC › Windows 10 (C:) › Temp › ARMDD › Data Mart › Files
Search Files
Organize
New folder
Name
Date modified
Type
Size
DimDate
23/10/2023 11:27
CSV File
9 579 KB
DimTime
16/10/2023 17:19
CSV File
2 677 KB
Data Mart
Files
PL3
OneDrive
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Windows 10 (C:)
File name:
CSV files (*.csv)
Open
Cancel
Create a new flat file connection manager by clicking New.
OK
Cancel
Help
Package.dtsx [Design]*
Control Flow
Data Flow Task:
Connection Managers
Error List
Variables
Output
Ready
Add to Source Control

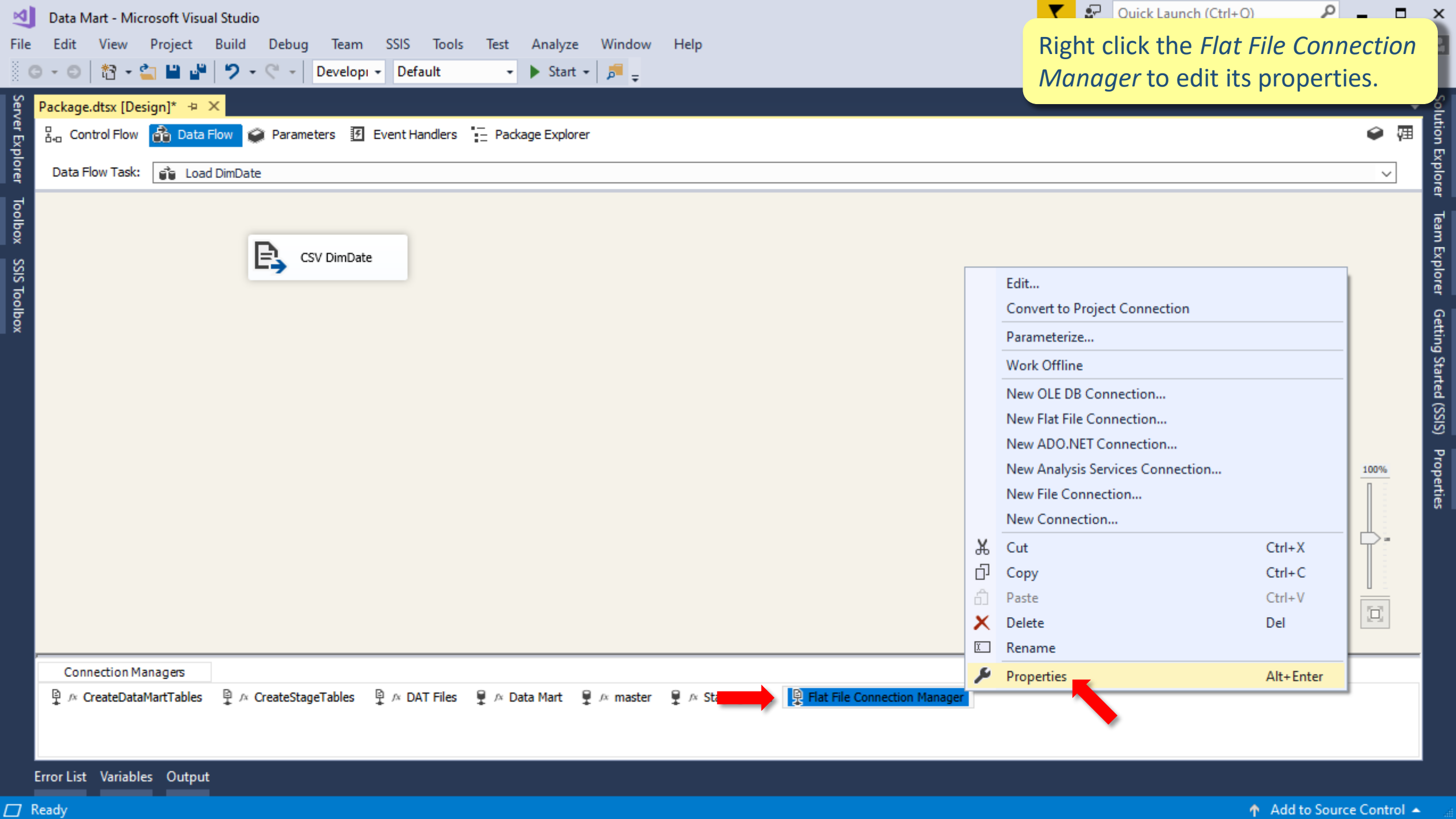

Data Mart - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Sign in
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Data Flow Task:
Load DimDate
CSV Dim
Flat File Connection Manager Editor
Connection manager name:
Flat File Connection Manager
Description:
General
Columns
Advanced
Preview
Select a file and specify the file properties and the file format.
File name:
C:\Temp\ARMDD\Data Mart\Files\DimDate.csv
Browse...
Locale:
Portuguese (Portugal)
Unicode
Code page:
1252 (ANSI - Latin I)
Format:
Delimited
Text qualifier:
<none>
Header row delimiter:
{CR}{LF}
Header rows to skip:
0
Column names in the first data row
Columns are not defined for this connection manager.
OK
Cancel
Help
Connection Managers
CreateDataMartTables
CreateStageTable
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties
100%

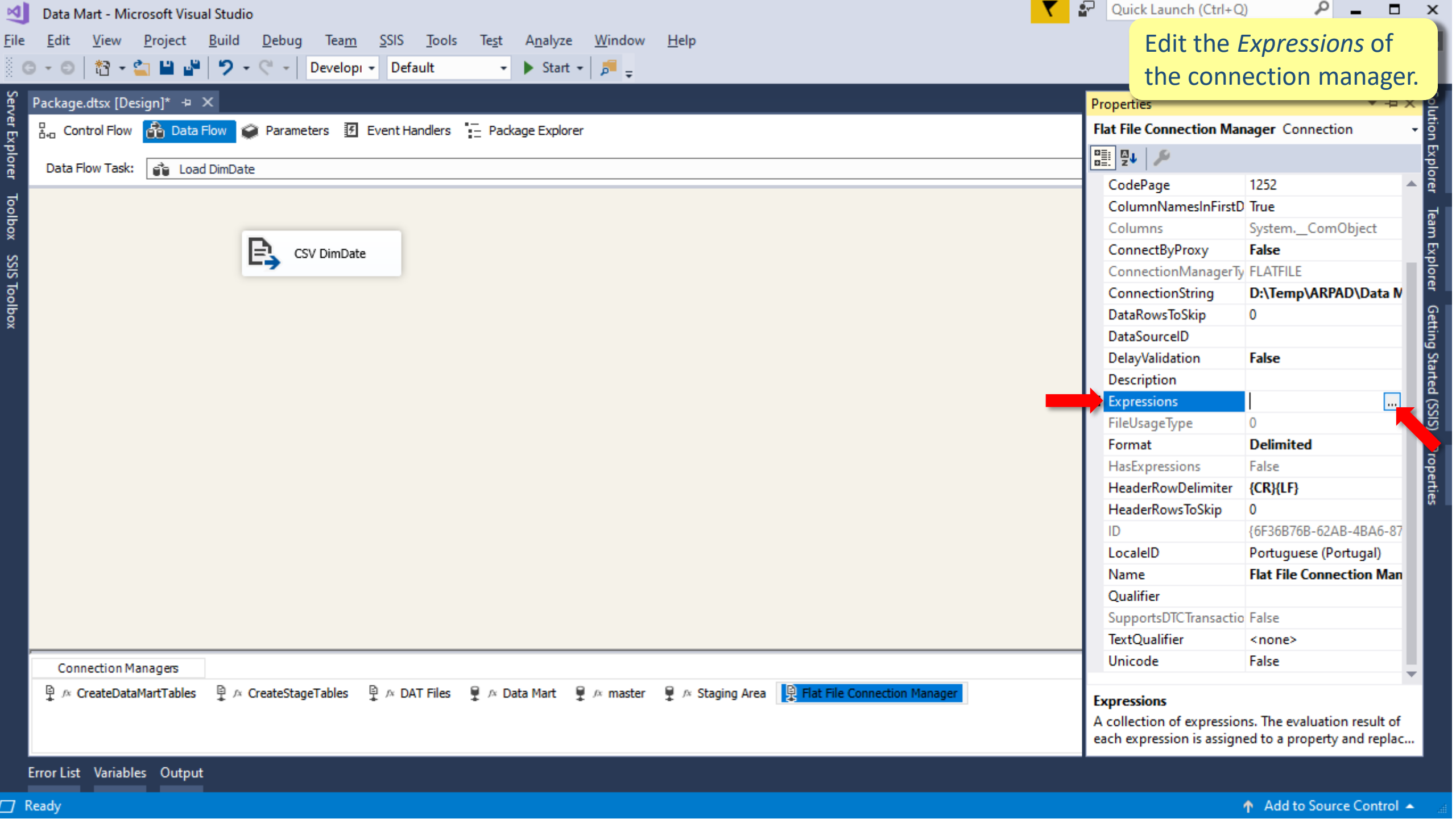

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Data Flow Task:
Load DimDate
CSV DimDat
Flat File Connection Manager Editor
Connection manager name:
Flat File Connection Manager
Description:
General
Columns
Advanced
Preview
Specify the characters that delimit the source file:
Row delimiter:
{CR}{LF}
Column delimiter:
Semicolon {;}
Preview rows 2-101:
PK_Date
Date_Name
Year
Year_Name
01/01/1900 00:00
Monday, January ...
01/01/1900 00:00
Calendar 1900
02/01/1900 00:00
Tuesday, January...
03/01/1900 00:00
Wednesday, Janu...
04/01/1900 00:00
Thursday, Januar...
05/01/1900 00:00
Friday, January 0...
06/01/1900 00:00
Saturday, Januar...
07/01/1900 00:00
Sunday, January ...
Refresh
Reset Columns
OK
Cancel
Help
Connection Managers
CreateDataMartTables
CreateStageTables
Error List
Variables
Output
Ready
Add to Source Control
In the Columns tab (on the left side), select Semicolon (;) as the column delimiter if needed.

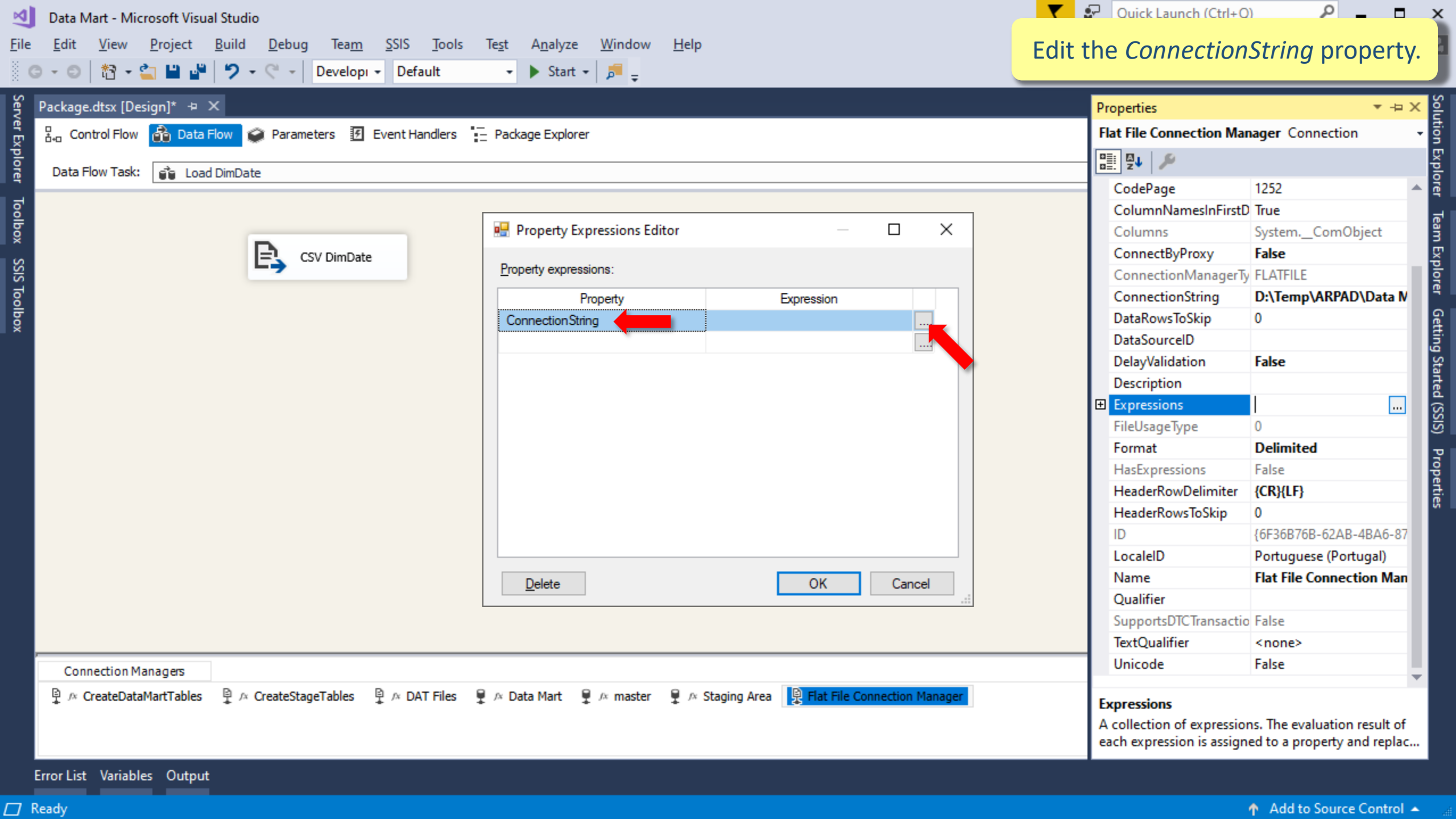

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Package.dtsx [Design]*
Control Flow
Data Flow
Data Flow Task:
Load DimDate
Flat File Source Editor
Configure the properties used to connect to and obtain data from a text file.
Connection Manager
Columns
Error Output
Available External Columns
Name
PK_Date
Date_Name
Year
Year_Name
Half_Year
Half_Year_Name
Quarter
External Column
Output Column
PK_Date
Date_Name
Year
Year_Name
Half_Year
Half_Year_Name
Quarter
Quarter_Name
Trimester
OK
Cancel
Help
All the DimDate.csv file attributes appear in the Columns tab of the Flat File Source Editor.
Connection Managers
CreateDataMartTables
Error List
Variables
Output
Ready
Add to Source Control

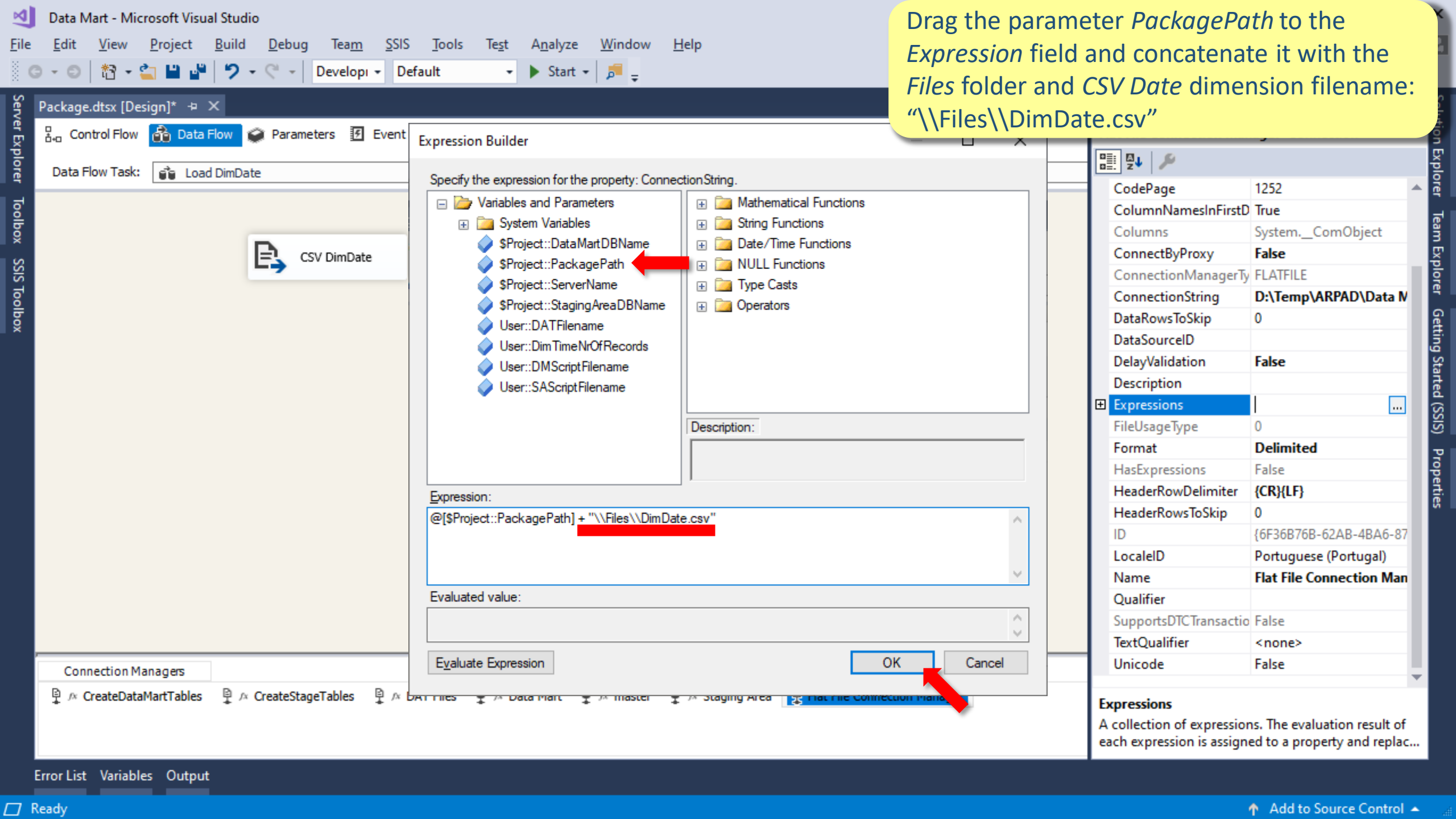

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Unselect all the attributes by unchecking the checkmark next to *Name*.
Flat File Source Editor
Configure the properties used to connect to and obtain data from a text file.
Package.dtsx [Design]*
Control Flow
Data Flow
Data Flow Task:
Load DimDate
Connection Manager
Columns
Error Output
Available External Columns
Name
PK_Date
Date_Name
Year
Year_Name
Half_Year
Half_Year_Name
Quarter
External Column
Output Column
OK
Cancel
Help
Connection Managers
CreateDataMartTables
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties
100%

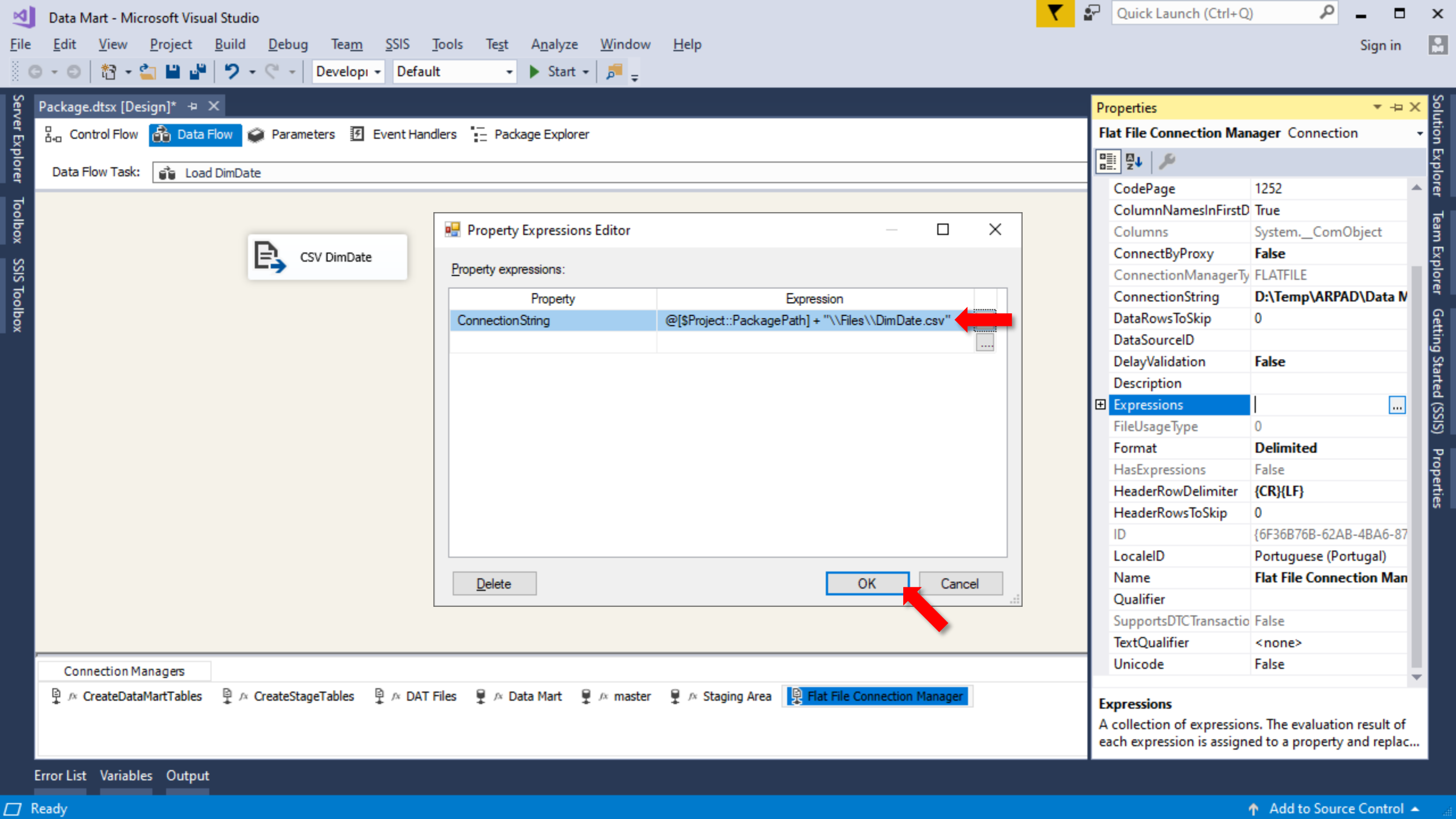

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debu
Package.dtsx [Design]*
Control Flow
Data Flow
Data Flow Task:
Load DimDate
Server Explorer
Toolbox
SSIS Toolbox
Connection Managers
CreateDataMartTables
Error List
Variables
Output
Ready
Flat File Source Editor
Configure the properties used to connect to and obtain data from a text file.
Connection Manager
Columns
Error Output
Available External
Name
ISO_8601_Week_Of_Year
ISO_8601_Week_Of_Year_N...
Year (yyyy)
MonthName
DayOfWeek
Weekend
External Column
Output Column
PK_Date
Day_Of_Year
Day_Of_Month
Day_Of_Week
Week_Of_Year
Month_Of_Year
Quarter_Of_Year
Half_Year_Of_Year
Year (yyyy)
MonthName
DayOfWeek
Weekend
OK
Cancel
Help
Select the attributes according to the bottom of the figure, by checking the names of the intended attributes at the top of the figure. We are selecting just the DimDate attributes needed for the Data Mart example.
Team Explorer
Getting Started (SSIS)
Properties
100%
Add to Source Control

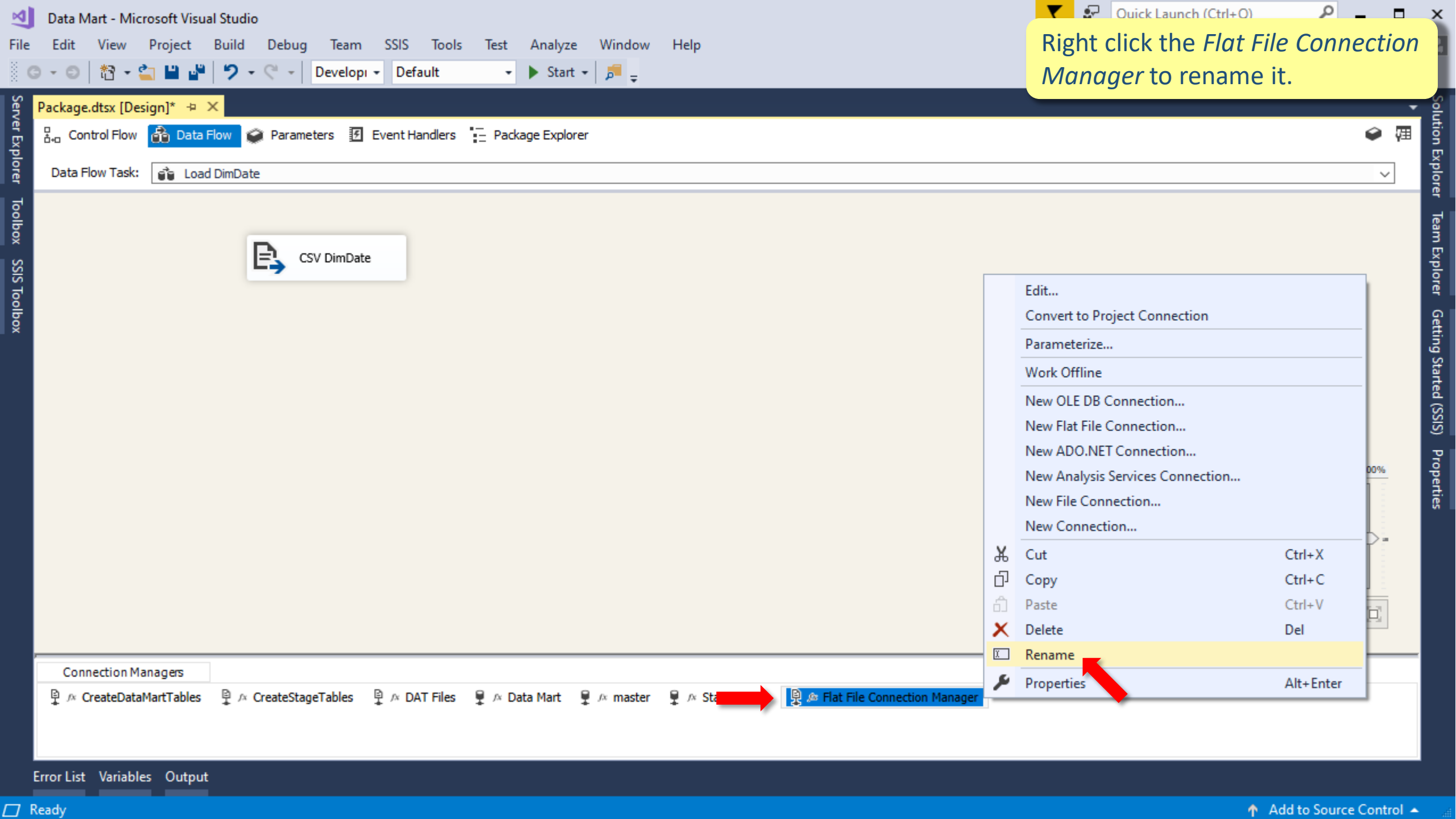

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Right click the *Flat File Connection Manager* to edit its properties.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
CSV DimDate
Edit...
Convert to Project Connection
Parameterize...
Work Offline
New OLE DB Connection...
New Flat File Connection...
New ADO.NET Connection...
New Analysis Services Connection...
New File Connection...
New Connection...
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Delete Del
Rename
Properties Alt+Enter
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Flat File Connection Manager
Error List
Variables
Output
Ready
Add to Source Control

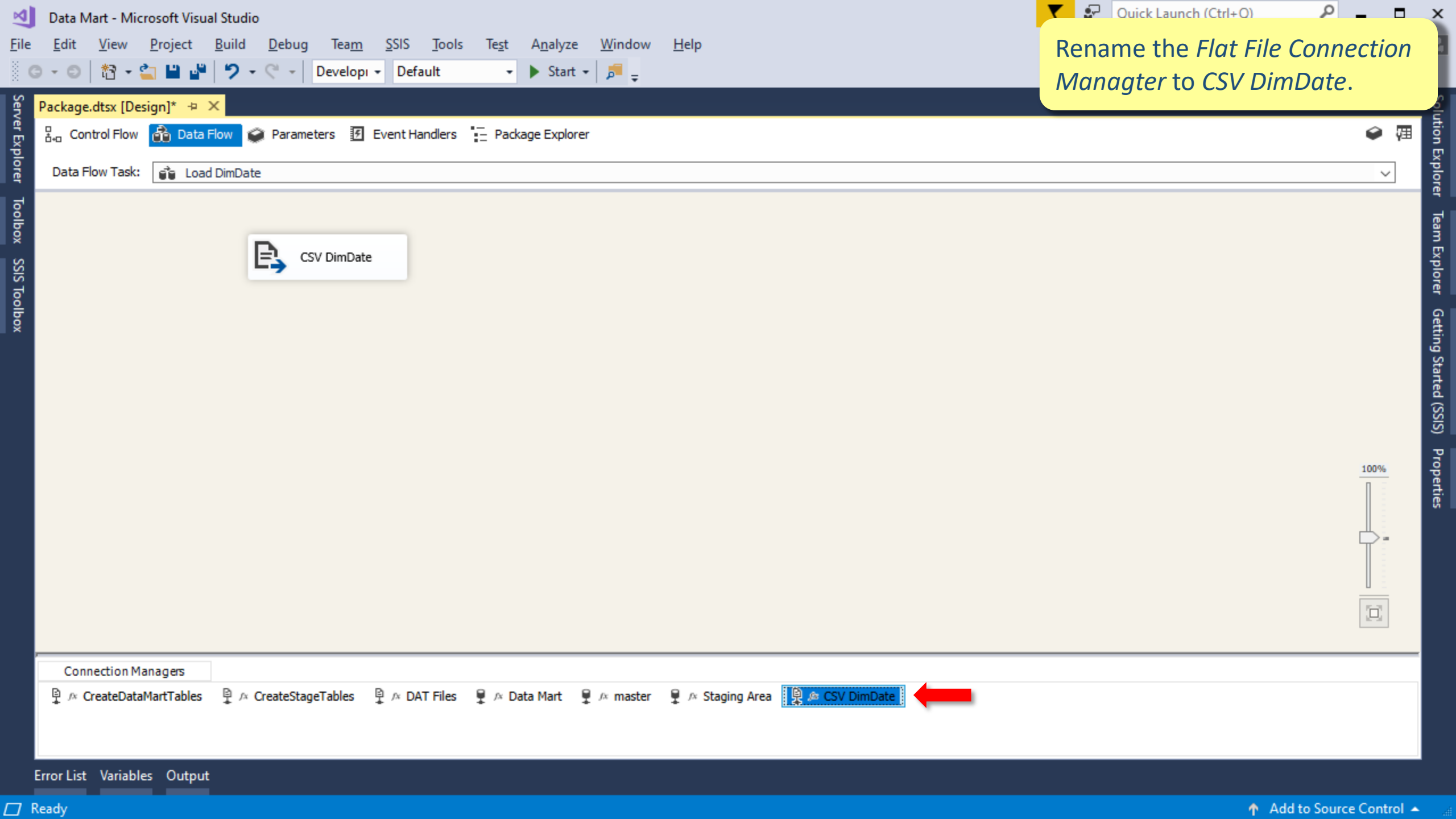

Data Mart - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Edit the *Expressions* of the connection manager.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
CSV DimDate
Properties
Flat File Connection Manager Connection
CodePage 1252
ColumnNamesInFirstD True
Columns System.__ComObject
ConnectByProxy False
ConnectionManagerTy FLATFILE
ConnectionString D:\Temp\ARPAD\Data M
DataRowsToSkip 0
DataSourceID
DelayValidation False
Description
Expressions
FileUsageType 0
Format Delimited
HasExpressions False
HeaderRowDelimiter {CR}{LF}
HeaderRowsToSkip 0
ID {6F36B76B-62AB-4BA6-87
LocaleID Portuguese (Portugal)
Name Flat File Connection Man
Qualifier
SupportsDTCTransactio False
TextQualifier <none>
Unicode False
Expressions
A collection of expressions. The evaluation result of each expression is assigned to a property and replac...
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
Flat File Connection Manager
Error List
Variables
Output
Ready
Add to Source Control

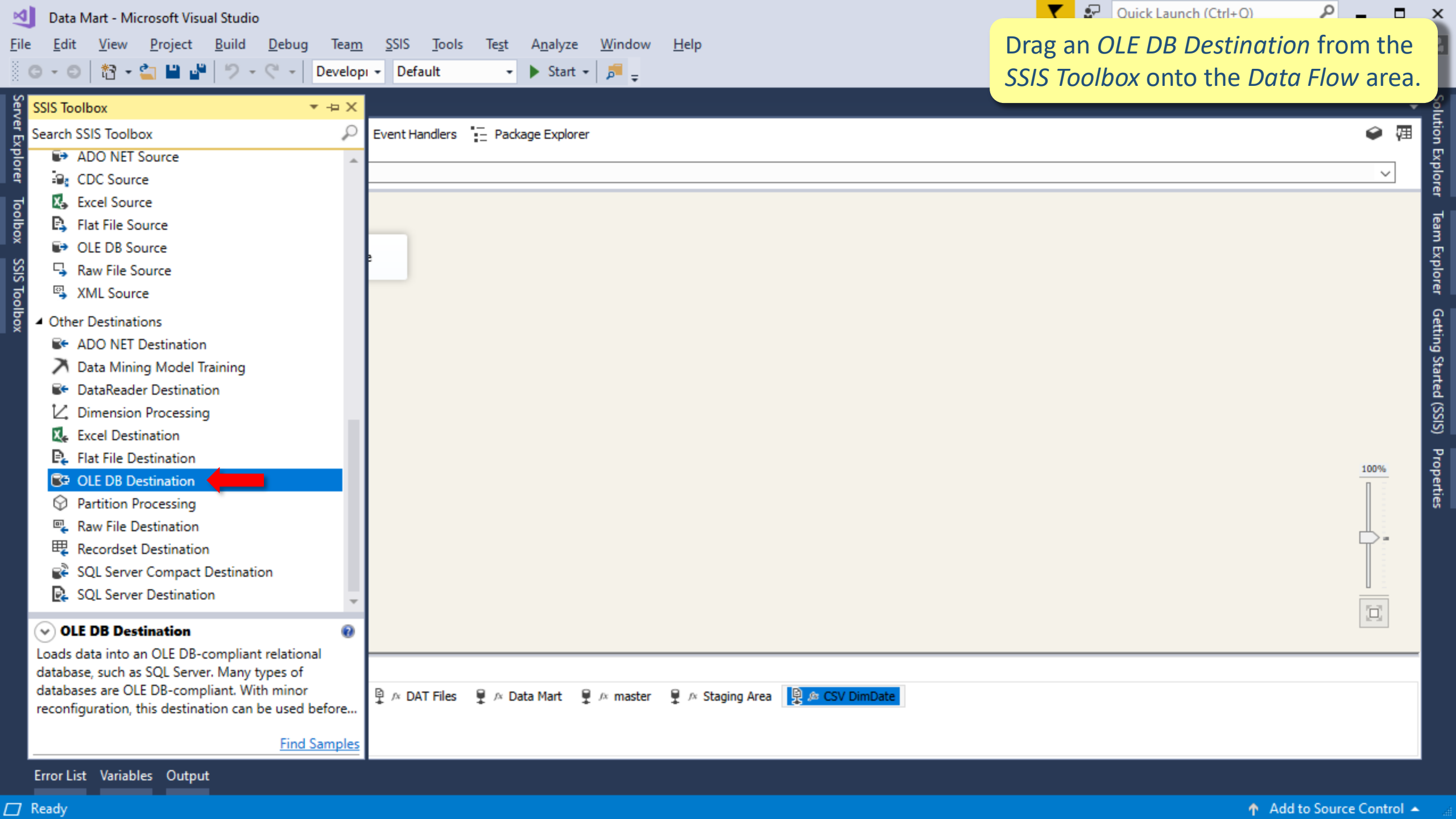

Edit the *ConnectionString* property.
Data Mart - Microsoft Visual Studio
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
CSV DimDate
Property Expressions Editor
Property expressions:
Property
Expression
ConnectionString
Delete
OK
Cancel
Properties
Flat File Connection Manager Connection
CodePage 1252
ColumnNamesInFirstD True
Columns System.__ComObject
ConnectByProxy False
ConnectionManagerTy FLATFILE
ConnectionString D:\Temp\ARPAD\Data M
DataRowsToSkip 0
DataSourceID
DelayValidation False
Description
Expressions
FileUsageType 0
Format Delimited
HasExpressions False
HeaderRowDelimiter {CR}{LF}
HeaderRowsToSkip 0
ID {6F36B76B-62AB-4BA6-87
LocaleID Portuguese (Portugal)
Name Flat File Connection Man
Qualifier
SupportsDTCTransactio False
TextQualifier <none>
Unicode False
Expressions
A collection of expressions. The evaluation result of each expression is assigned to a property and replac...
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
Flat File Connection Manager
Error List
Variables
Output
Ready
Add to Source Control

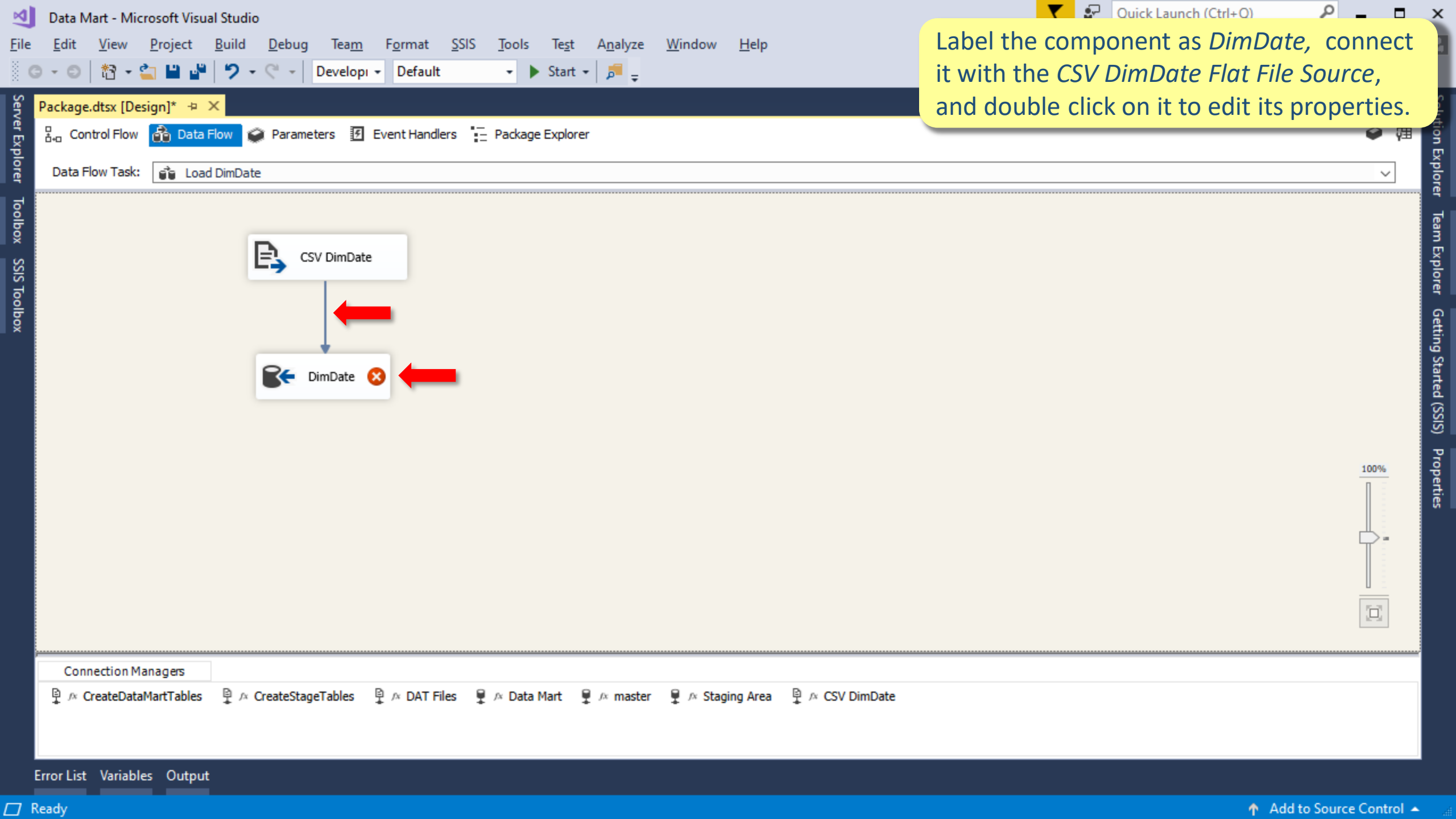

Drag the parameter *PackagePath* to the *Expression* field and concatenate it with the *Files* folder and *CSV Date* dimension filename: "\\Files\\DimDate.csv"
Data Mart - Microsoft Visual Studio
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event
Data Flow Task:
Load DimDate
CSV DimDate
Expression Builder
Specify the expression for the property: ConnectionString.
Variables and Parameters
System Variables
$Project::DataMartDBName
$Project::PackagePath
$Project::ServerName
$Project::StagingAreaDBName
User::DATFilename
User::DimTimeNrOfRecords
User::DMScriptFilename
User::SAScriptFilename
Mathematical Functions
String Functions
Date/Time Functions
NULL Functions
Type Casts
Operators
Description:
Expression:
@[$Project::PackagePath] + "\\Files\\DimDate.csv"
Evaluated value:
Evaluate Expression
OK
Cancel
Connection Managers
CreateDataMartTables
CreateStageTables
Expressions
A collection of expressions. The evaluation result of each expression is assigned to a property and replac...
Error List
Variables
Output
Ready
Add to Source Control

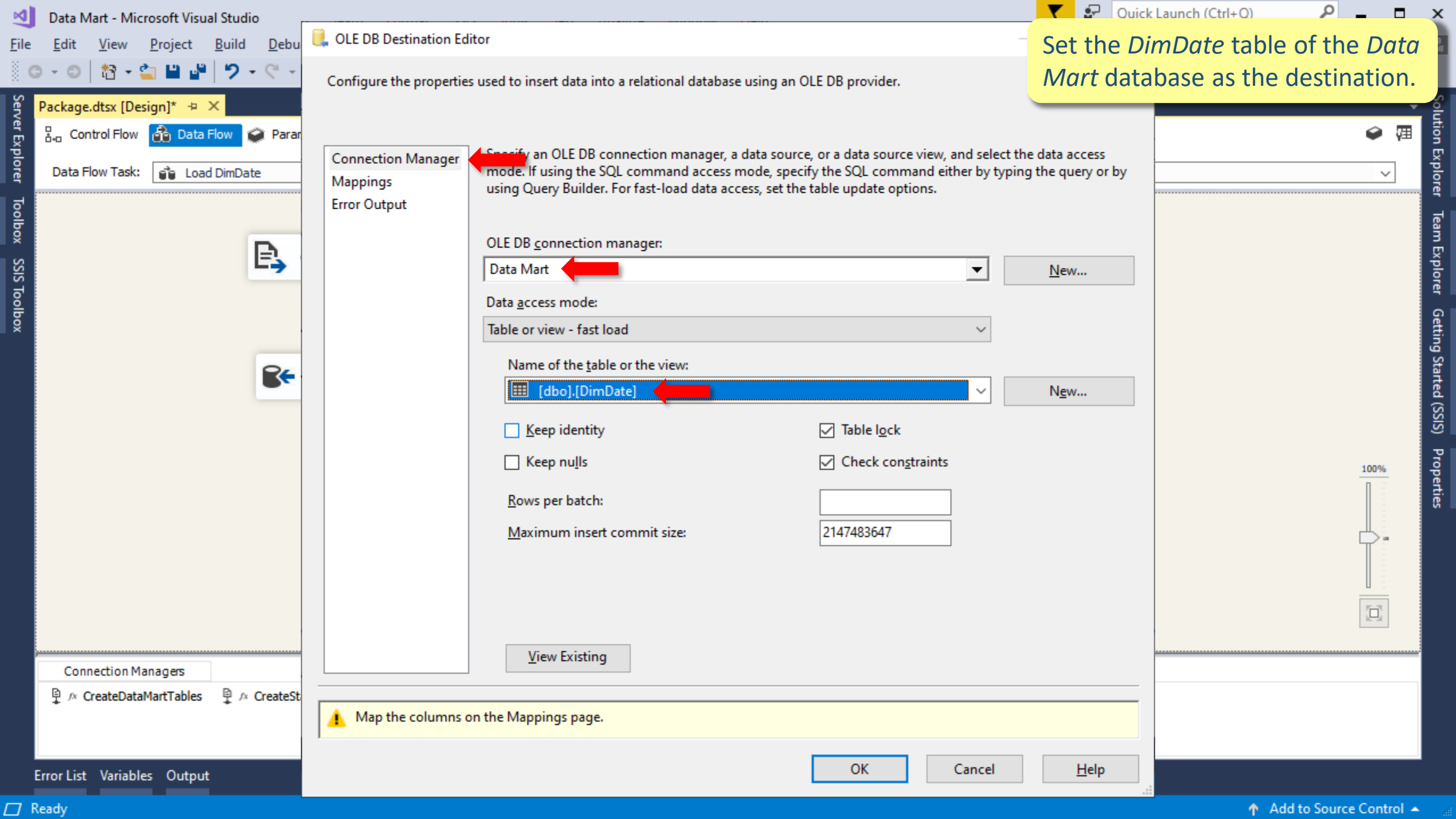

Data Mart - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Sign in
Start
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
CSV DimDate
Property Expressions Editor
Property expressions:
Property
Expression
ConnectionString
@[$Project::PackagePath] + "\\Files\\DimDate.csv"
Delete
OK
Cancel
Properties
Flat File Connection Manager Connection
CodePage 1252
ColumnNamesInFirstD True
Columns System.__ComObject
ConnectByProxy False
ConnectionManagerTy FLATFILE
ConnectionString D:\Temp\ARPAD\Data M
DataRowsToSkip 0
DataSourceID
DelayValidation False
Description
Expressions
FileUsageType 0
Format Delimited
HasExpressions False
HeaderRowDelimiter {CR}{LF}
HeaderRowsToSkip 0
ID {6F36B76B-62AB-4BA6-87
LocaleID Portuguese (Portugal)
Name Flat File Connection Man
Qualifier
SupportsDTCTransactio False
TextQualifier <none>
Unicode False
Expressions
A collection of expressions. The evaluation result of each expression is assigned to a property and replac...
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
Flat File Connection Manager
Error List
Variables
Output
Ready
Add to Source Control

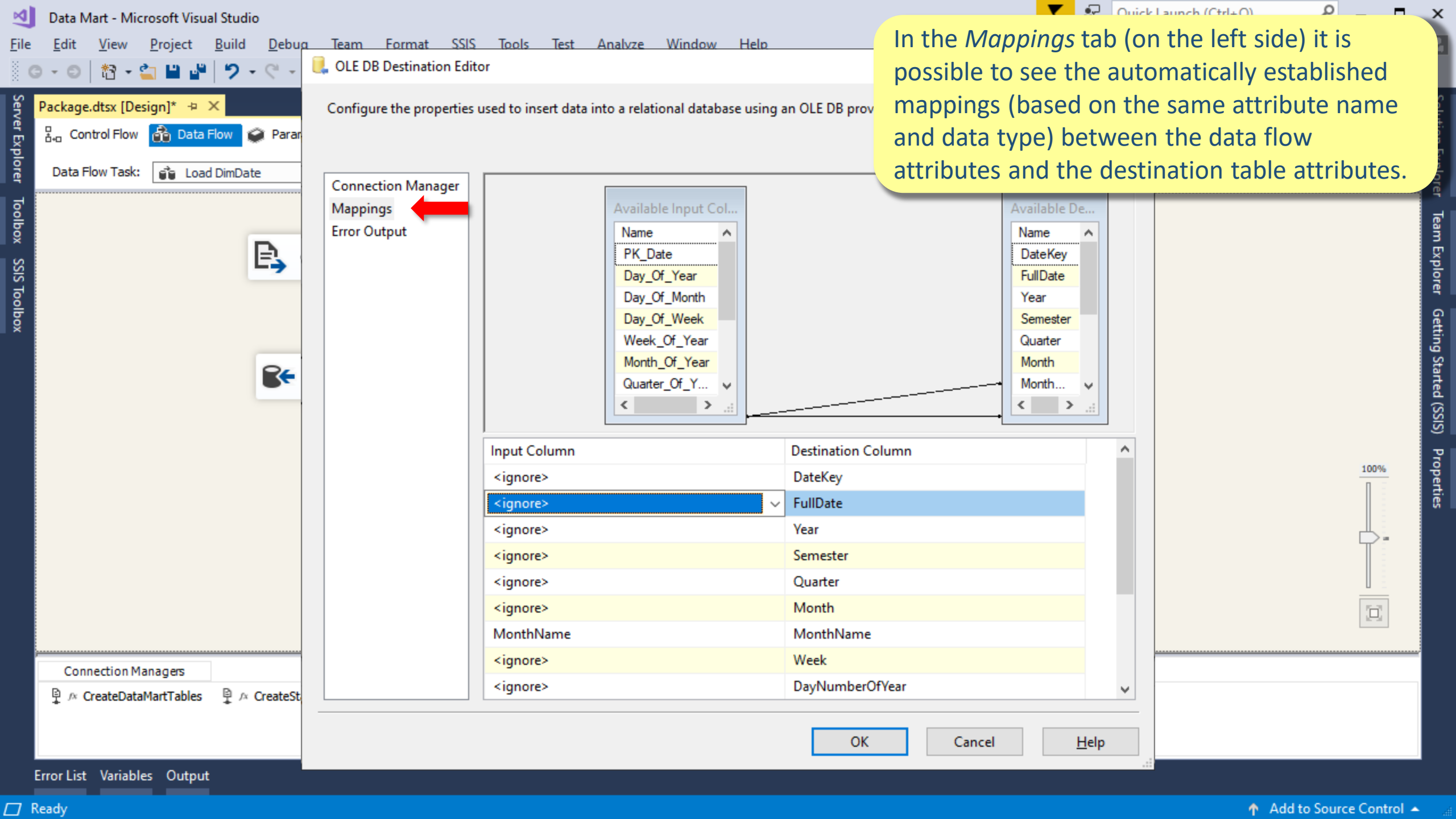

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Right click the *Flat File Connection Manager* to rename it.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
CSV DimDate
Edit...
Convert to Project Connection
Parameterize...
Work Offline
New OLE DB Connection...
New Flat File Connection...
New ADO.NET Connection...
New Analysis Services Connection...
New File Connection...
New Connection...
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Delete Del
Rename
Properties Alt+Enter
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Flat File Connection Manager
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties

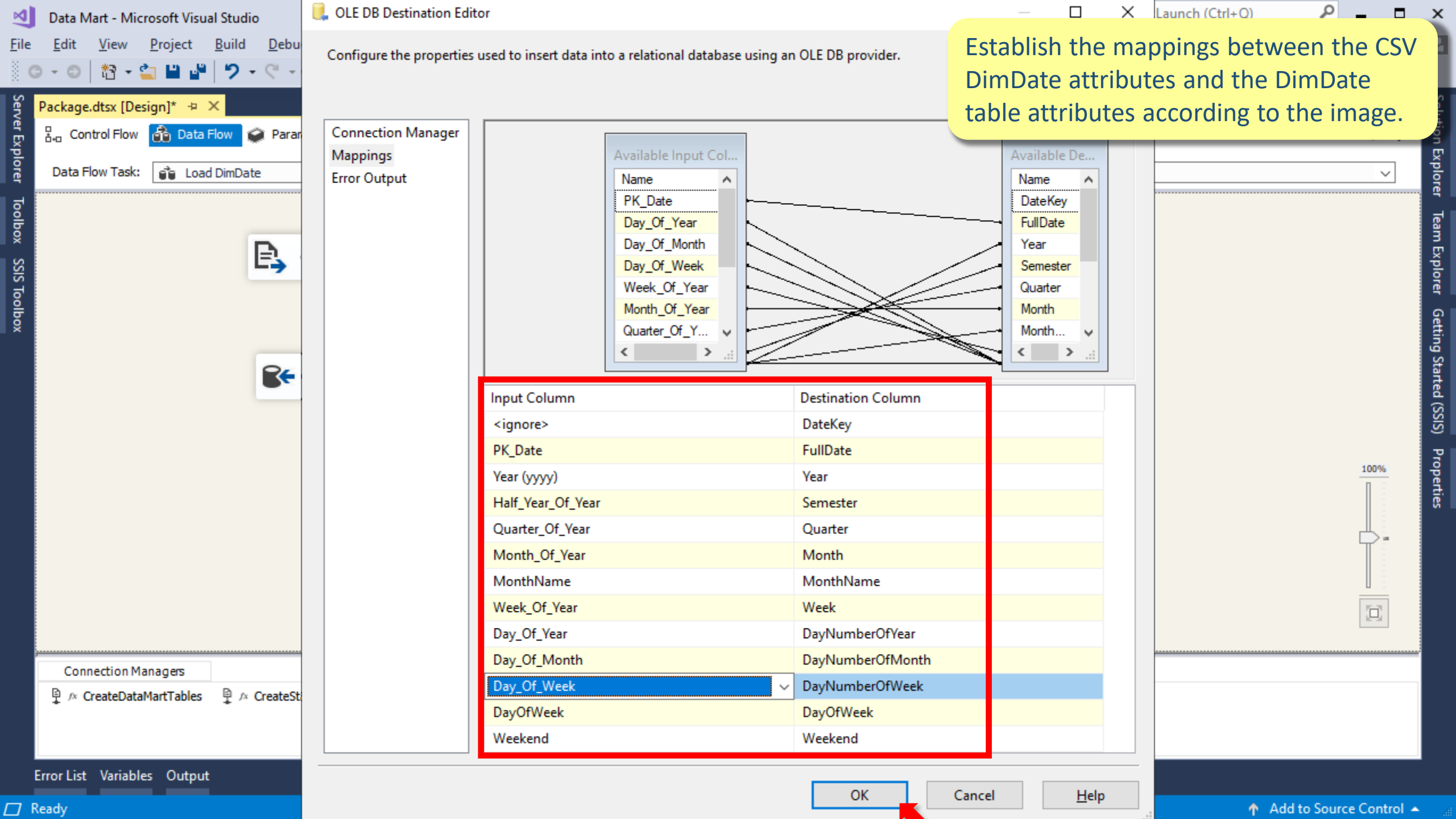

Data Mart - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Rename the *Flat File Connection Managter* to *CSV DimDate*.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
CSV DimDate
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Team Explorer
Getting Started (SSIS)
Properties

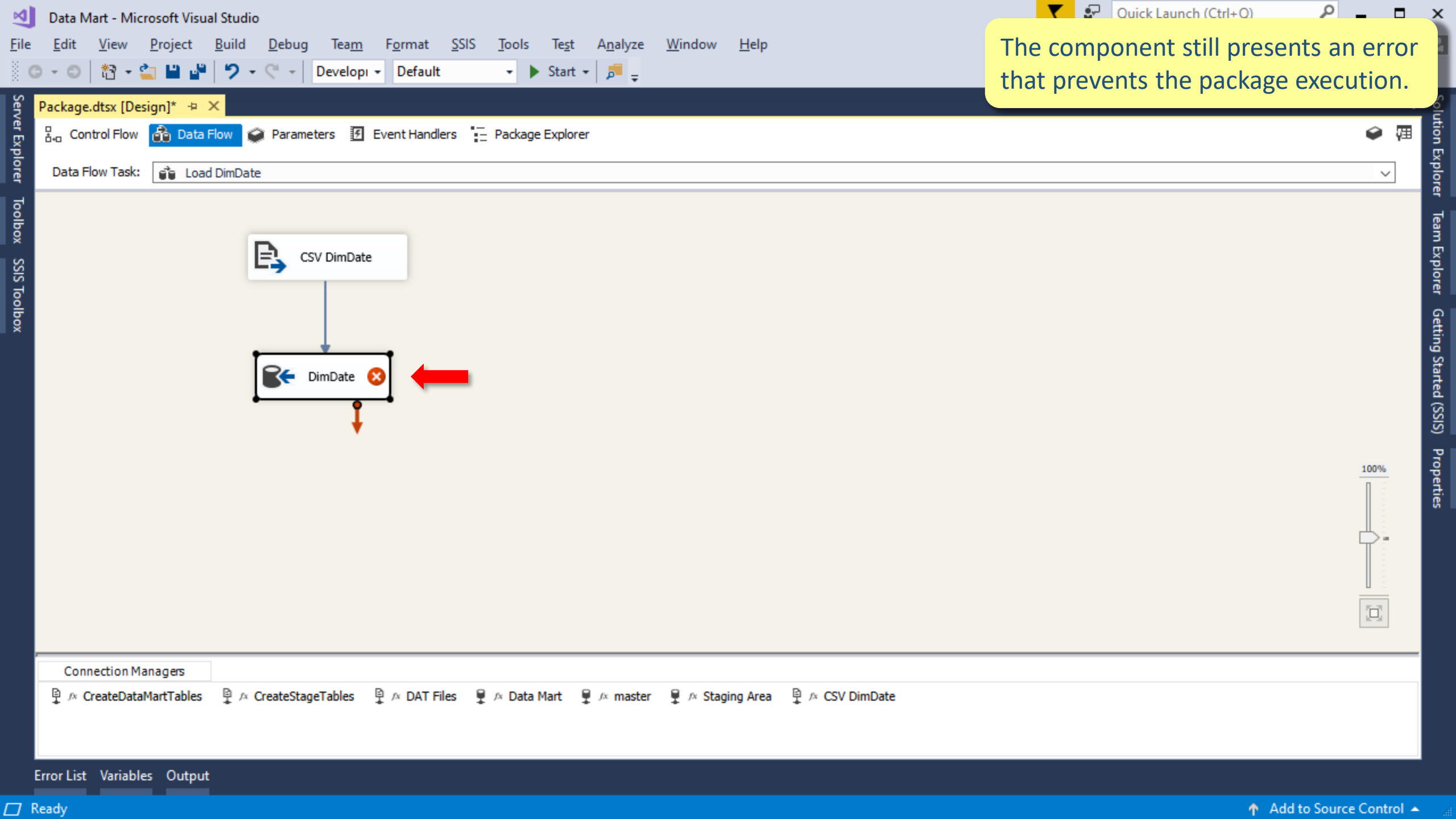

Data Mart - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Start
Drag an *OLE DB Destination* from the *SSIS Toolbox* onto the *Data Flow* area.
SSIS Toolbox
Search SSIS Toolbox
ADO NET Source
CDC Source
Excel Source
Flat File Source
OLE DB Source
Raw File Source
XML Source
Other Destinations
ADO NET Destination
Data Mining Model Training
DataReader Destination
Dimension Processing
Excel Destination
Flat File Destination
OLE DB Destination
Partition Processing
Raw File Destination
Recordset Destination
SQL Server Compact Destination
SQL Server Destination
OLE DB Destination
Loads data into an OLE DB-compliant relational database, such as SQL Server. Many types of databases are OLE DB-compliant. With minor reconfiguration, this destination can be used before...
Find Samples
Event Handlers
Package Explorer
100%
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties

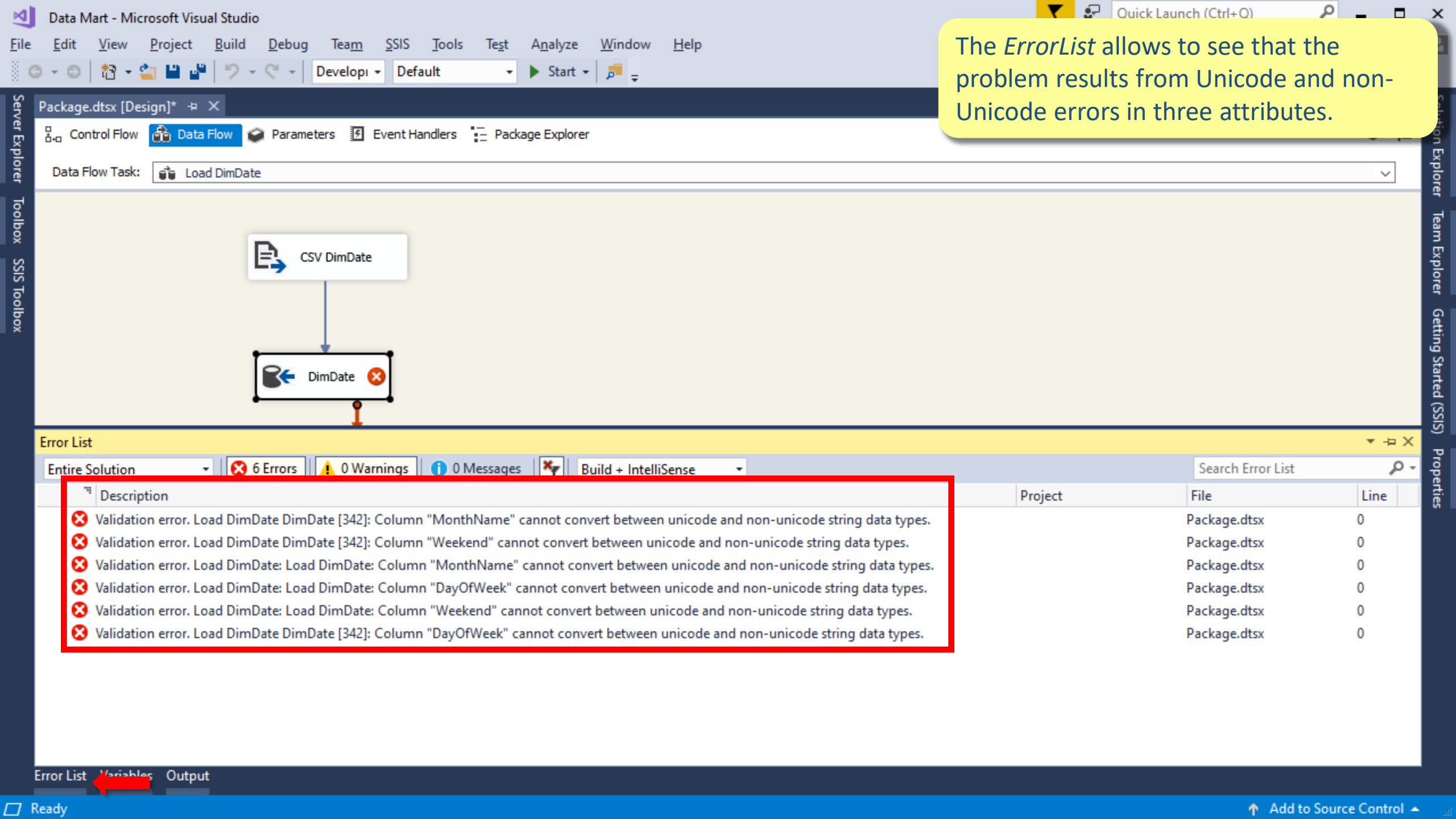

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Label the component as *DimDate*, connect it with the *CSV DimDate Flat File Source*, and double click on it to edit its properties.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
CSV DimDate
DimDate
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control


Data Mart - Microsoft Visual Studio
File Edit View Project Build Debu
Quick Launch (Ctrl+Q)
Package.dtsx [Design]*
Control Flow
Data Flow
Data Flow Task:
Load DimDate
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties
Connection Managers
CreateDataMartTables
Error List
Variables
Output
Ready
Add to Source Control
OLE DB Destination Editor
Configure the properties used to insert data into a relational database using an OLE DB provider.
Connection Manager
Mappings
Error Output
Specify an OLE DB connection manager, a data source, or a data source view, and select the data access mode. If using the SQL command access mode, specify the SQL command either by typing the query or by using Query Builder. For fast-load data access, set the table update options.
OLE DB connection manager:
Data Mart
New...
Data access mode:
Table or view - fast load
Name of the table or the view:
[dbo].[DimDate]
New...
Keep identity
Keep nulls
Table lock
Check constraints
Rows per batch:
Maximum insert commit size:
2147483647
View Existing
Map the columns on the Mappings page.
OK
Cancel
Help
Set the DimDate table of the Data Mart database as the destination.

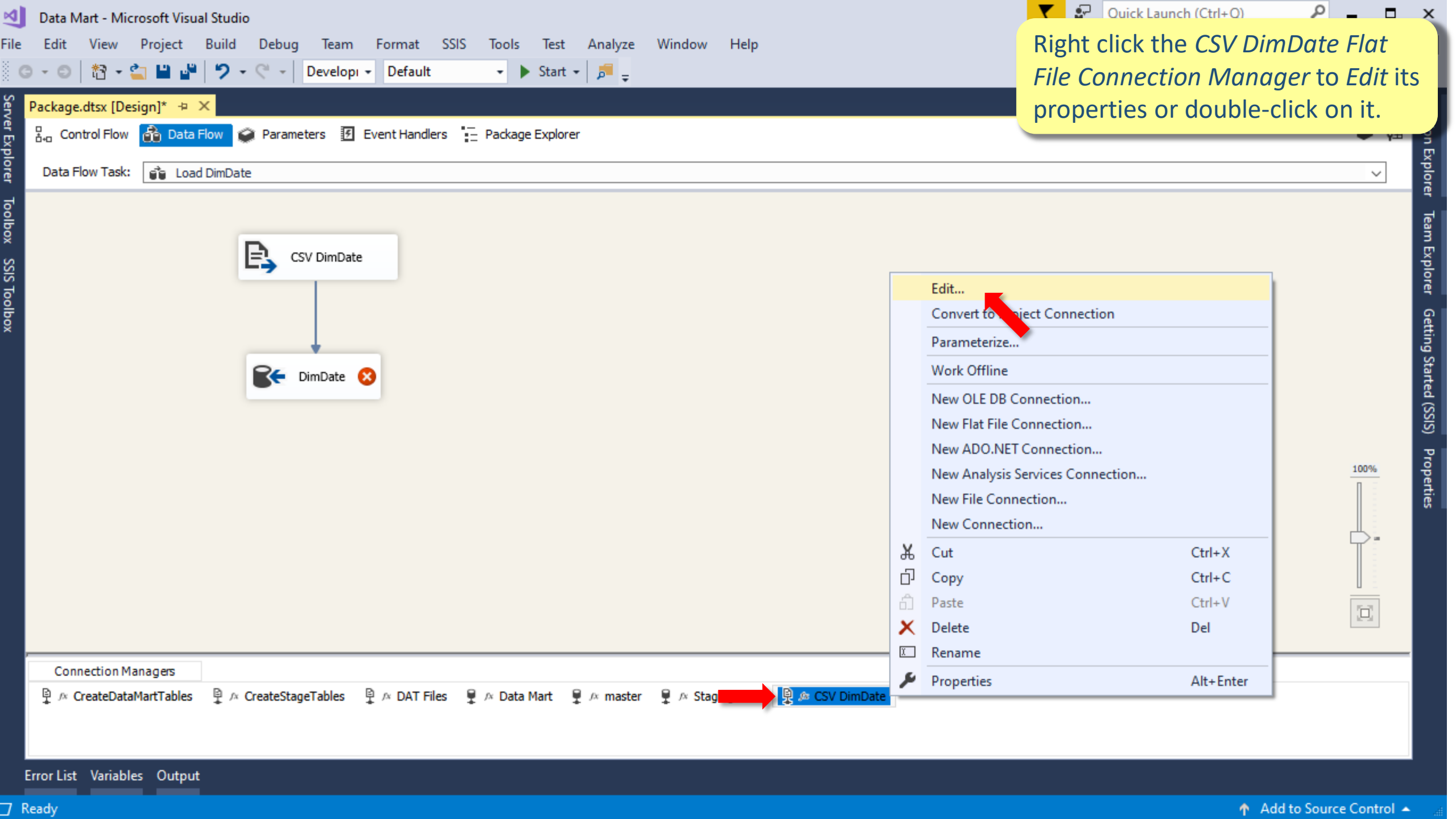

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Package.dtsx [Design]*
Control Flow
Data Flow
Data Flow Task:
Load DimDate
OLE DB Destination Editor
Configure the properties used to insert data into a relational database using an OLE DB prov
Connection Manager
Mappings
Error Output
Available Input Col...
Name
PK_Date
Day_Of_Year
Day_Of_Month
Day_Of_Week
Week_Of_Year
Month_Of_Year
Quarter_Of_Y...
Available De...
Name
DateKey
FullDate
Year
Semester
Quarter
Month
Month...
Input Column
Destination Column
<ignore>
DateKey
<ignore>
FullDate
<ignore>
Year
<ignore>
Semester
<ignore>
Quarter
<ignore>
Month
MonthName
MonthName
<ignore>
Week
<ignore>
DayNumberOfYear
OK
Cancel
Help
In the Mappings tab (on the left side) it is possible to see the automatically established mappings (based on the same attribute name and data type) between the data flow attributes and the destination table attributes.
Connection Managers
CreateDataMartTables
Error List
Variables
Output
Ready
Add to Source Control

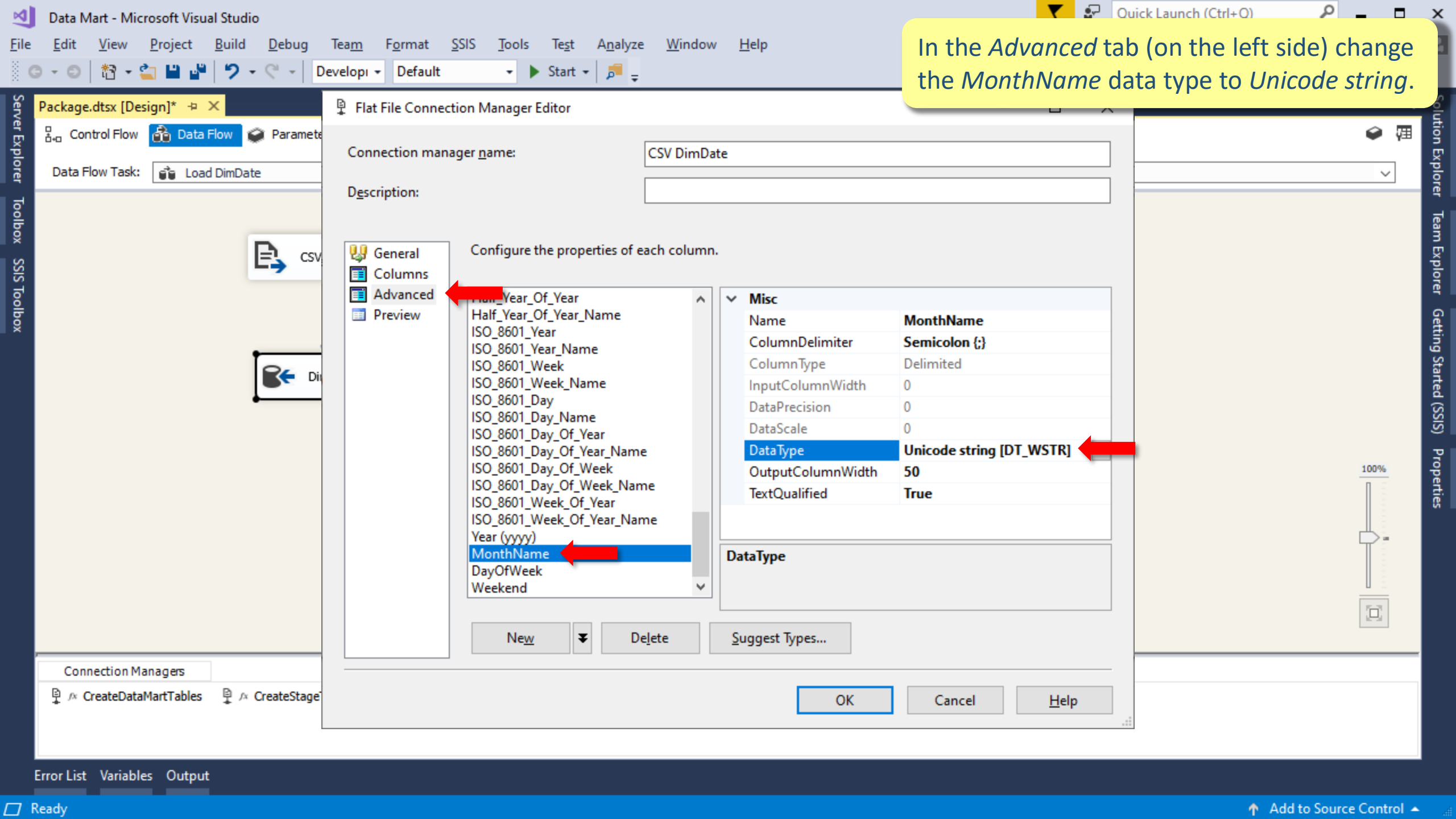

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debu
Package.dtsx [Design]*
Control Flow
Data Flow
Data Flow Task:
Load DimDate
Connection Managers
CreateDataMartTables
Error List
Variables
Output
Ready
OLE DB Destination Editor
Configure the properties used to insert data into a relational database using an OLE DB provider.
Establish the mappings between the CSV DimDate attributes and the DimDate table attributes according to the image.
Connection Manager
Mappings
Error Output
Available Input Col...
Name
PK_Date
Day_Of_Year
Day_Of_Month
Day_Of_Week
Week_Of_Year
Month_Of_Year
Quarter_Of_Y...
Available De...
Name
DateKey
FullDate
Year
Semester
Quarter
Month
Month...
Input Column
Destination Column
<ignore>
DateKey
PK_Date
FullDate
Year (yyyy)
Year
Half_Year_Of_Year
Semester
Quarter_Of_Year
Quarter
Month_Of_Year
Month
MonthName
MonthName
Week_Of_Year
Week
Day_Of_Year
DayNumberOfYear
Day_Of_Month
DayNumberOfMonth
Day_Of_Week
DayNumberOfWeek
DayOfWeek
DayOfWeek
Weekend
Weekend
OK
Cancel
Help
Launch (Ctrl+Q)
Add to Source Control

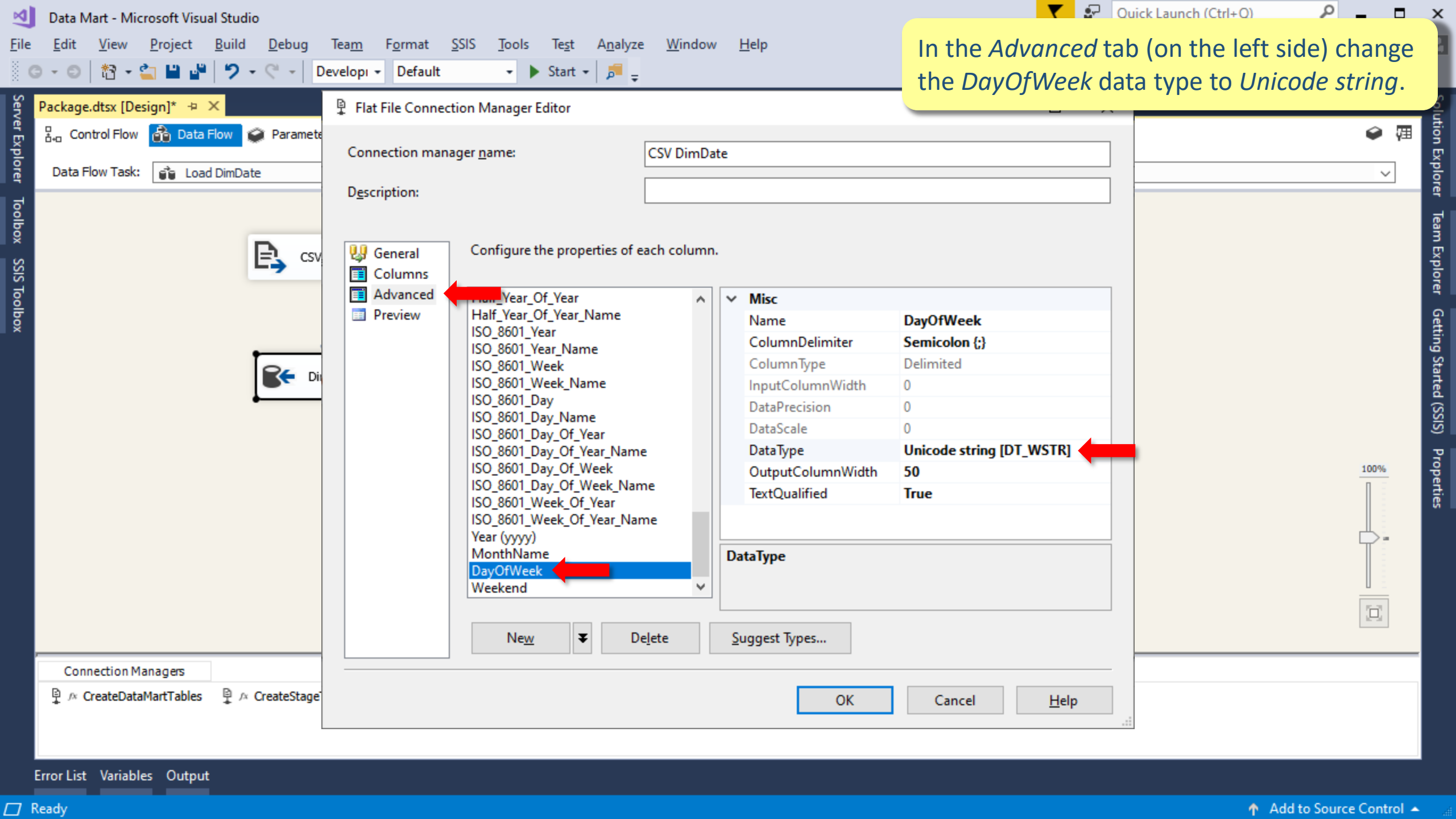

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Start
Default
The component still presents an error that prevents the package execution.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
CSV DimDate
DimDate
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties

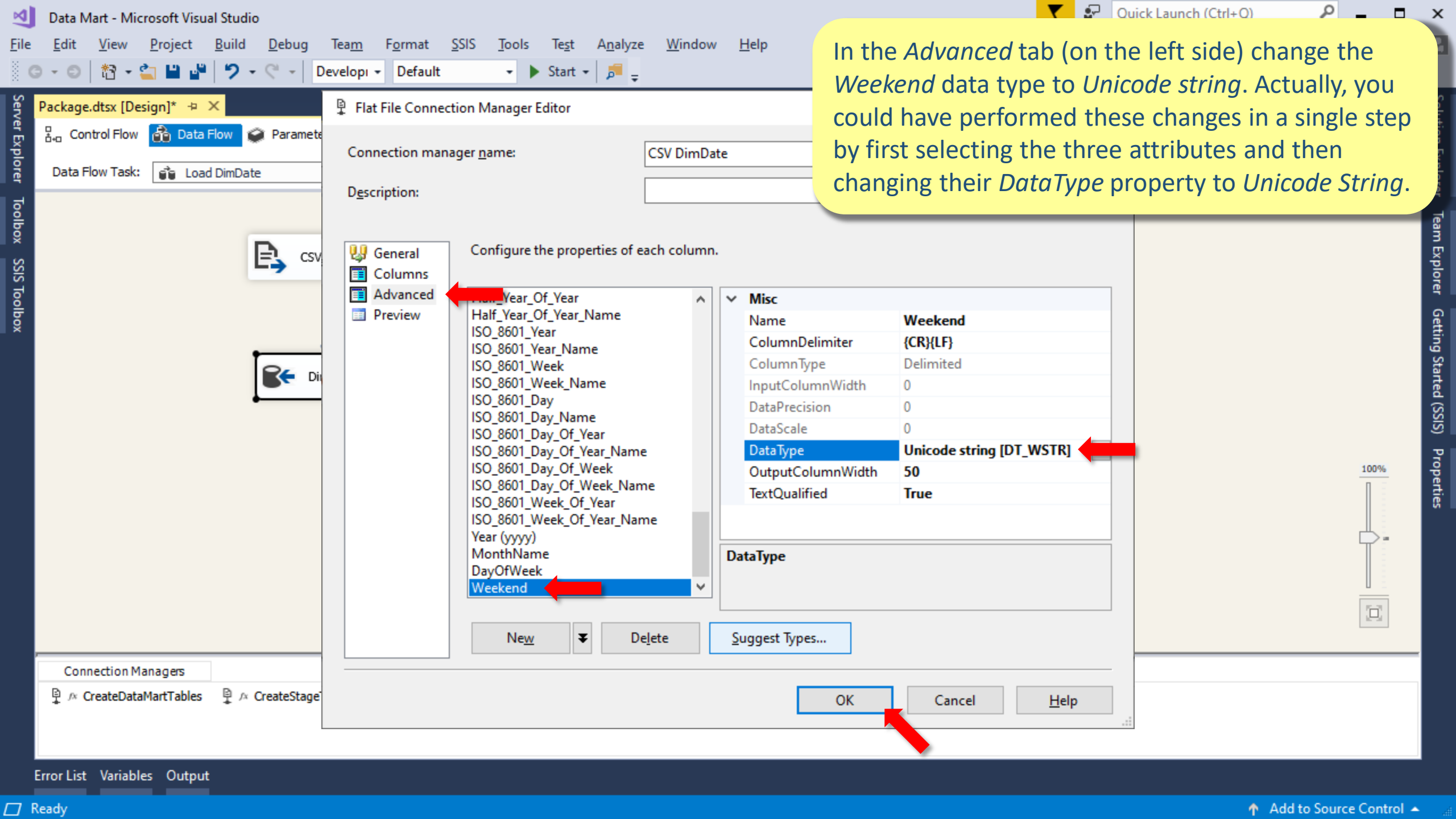


The *ErrorList* allows to see that the problem results from Unicode and non-Unicode errors in three attributes.

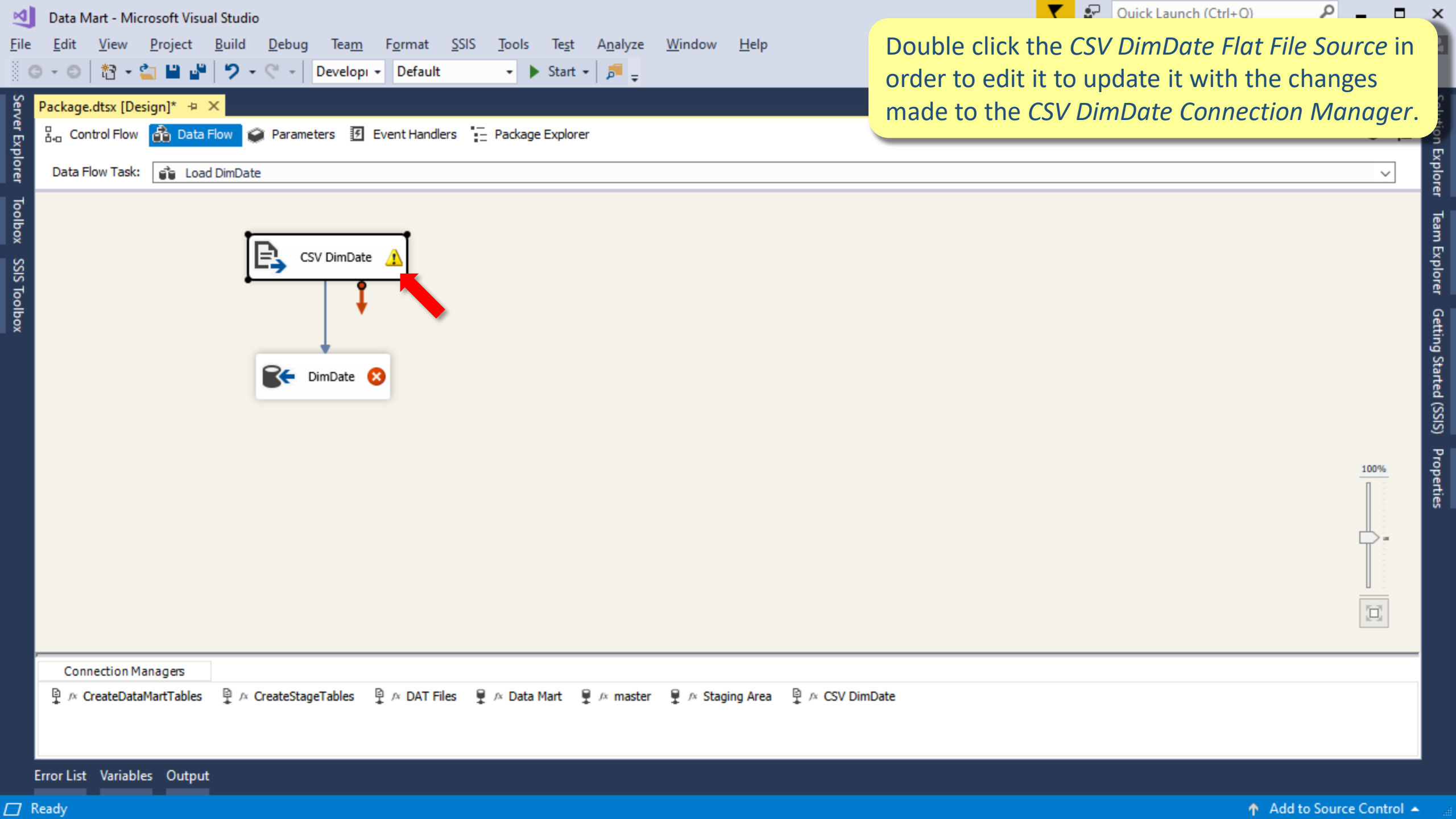

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Right click the *CSV DimDate Flat File Connection Manager* to *Edit* its properties or double-click on it.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task: Load DimDate
CSV DimDate
DimDate
Edit...
Convert to Project Connection
Parameterize...
Work Offline
New OLE DB Connection...
New Flat File Connection...
New ADO.NET Connection...
New Analysis Services Connection...
New File Connection...
New Connection...
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Delete Del
Rename
Properties Alt+Enter
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control

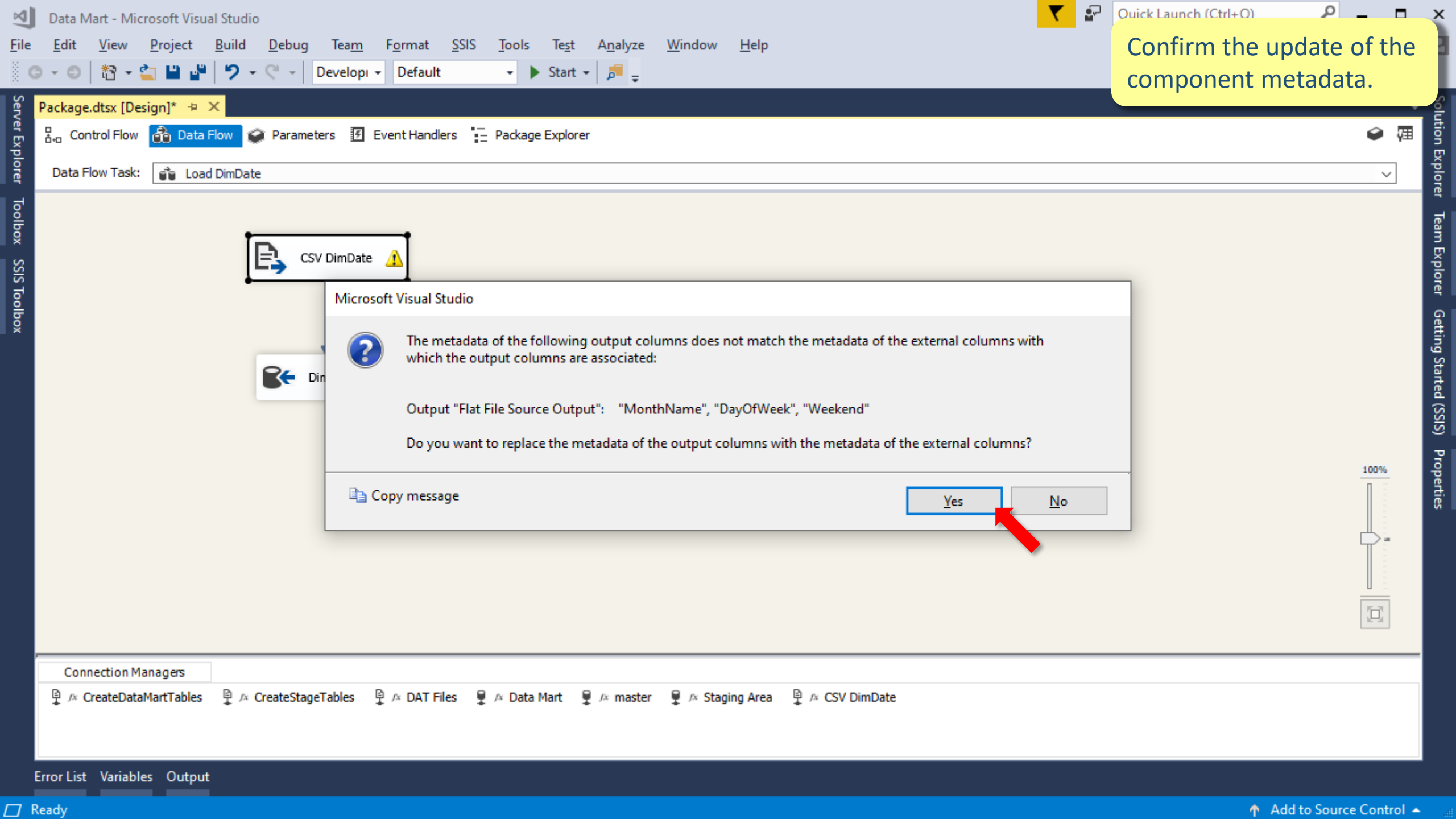

In the *Advanced* tab (on the left side) change the *MonthName* data type to *Unicode string*.
Data Mart - Microsoft Visual Studio
Flat File Connection Manager Editor
Connection manager name:
CSV DimDate
Description:
General
Columns
Advanced
Preview
Configure the properties of each column.
Half_Year_Of_Year_Name
ISO_8601_Year
ISO_8601_Year_Name
ISO_8601_Week
ISO_8601_Week_Name
ISO_8601_Day
ISO_8601_Day_Name
ISO_8601_Day_Of_Year
ISO_8601_Day_Of_Year_Name
ISO_8601_Day_Of_Week
ISO_8601_Day_Of_Week_Name
ISO_8601_Week_Of_Year
ISO_8601_Week_Of_Year_Name
Year (yyyy)
MonthName
DayOfWeek
Weekend
Misc
Name MonthName
ColumnDelimiter Semicolon {;}
ColumnType Delimited
InputColumnWidth 0
DataPrecision 0
DataScale 0
DataType Unicode string [DT_WSTR]
OutputColumnWidth 50
TextQualified True
DataType
New
Delete
Suggest Types...
OK
Cancel
Help
Package.dtsx [Design]*
Control Flow
Data Flow
Data Flow Task:
Load DimDate
Connection Managers
CreateDataMartTables
Error List
Variables
Output
Ready
Add to Source Control

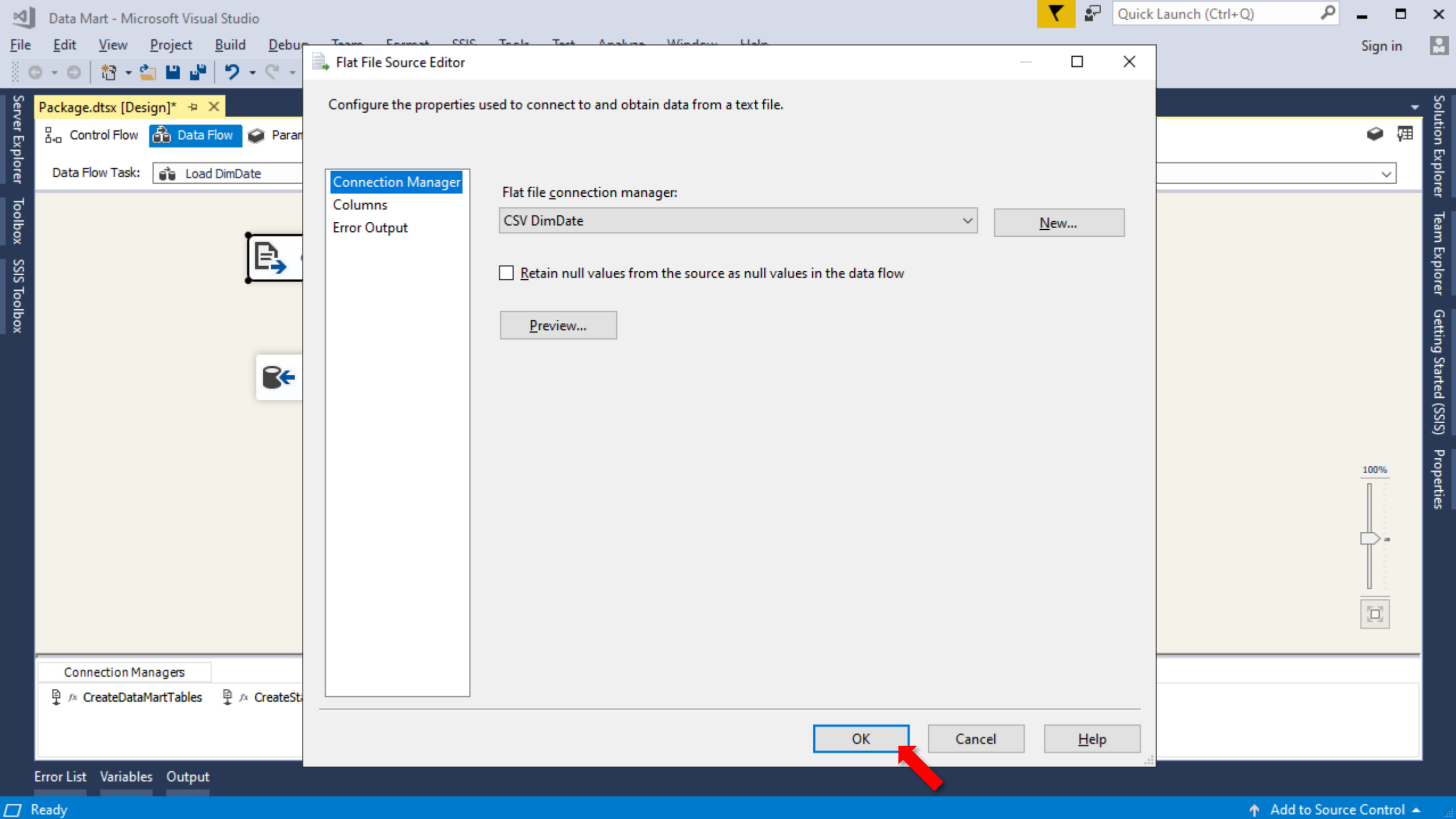

In the *Advanced* tab (on the left side) change the *DayOfWeek* data type to *Unicode string*.
Data Mart - Microsoft Visual Studio
Flat File Connection Manager Editor
Connection manager name:
CSV DimDate
Description:
General
Columns
Advanced
Preview
Configure the properties of each column.
Half_Year_Of_Year
Half_Year_Of_Year_Name
ISO_8601_Year
ISO_8601_Year_Name
ISO_8601_Week
ISO_8601_Week_Name
ISO_8601_Day
ISO_8601_Day_Name
ISO_8601_Day_Of_Year
ISO_8601_Day_Of_Year_Name
ISO_8601_Day_Of_Week
ISO_8601_Day_Of_Week_Name
ISO_8601_Week_Of_Year
ISO_8601_Week_Of_Year_Name
Year (yyyy)
MonthName
DayOfWeek
Weekend
Misc
Name DayOfWeek
ColumnDelimiter Semicolon {;}
ColumnType Delimited
InputColumnWidth 0
DataPrecision 0
DataScale 0
DataType Unicode string [DT_WSTR]
OutputColumnWidth 50
TextQualified True
DataType
New
Delete
Suggest Types...
OK
Cancel
Help
Package.dtsx [Design]*
Control Flow
Data Flow
Data Flow Task:
Load DimDate
Connection Managers
CreateDataMartTables
Error List
Variables
Output
Ready
Add to Source Control

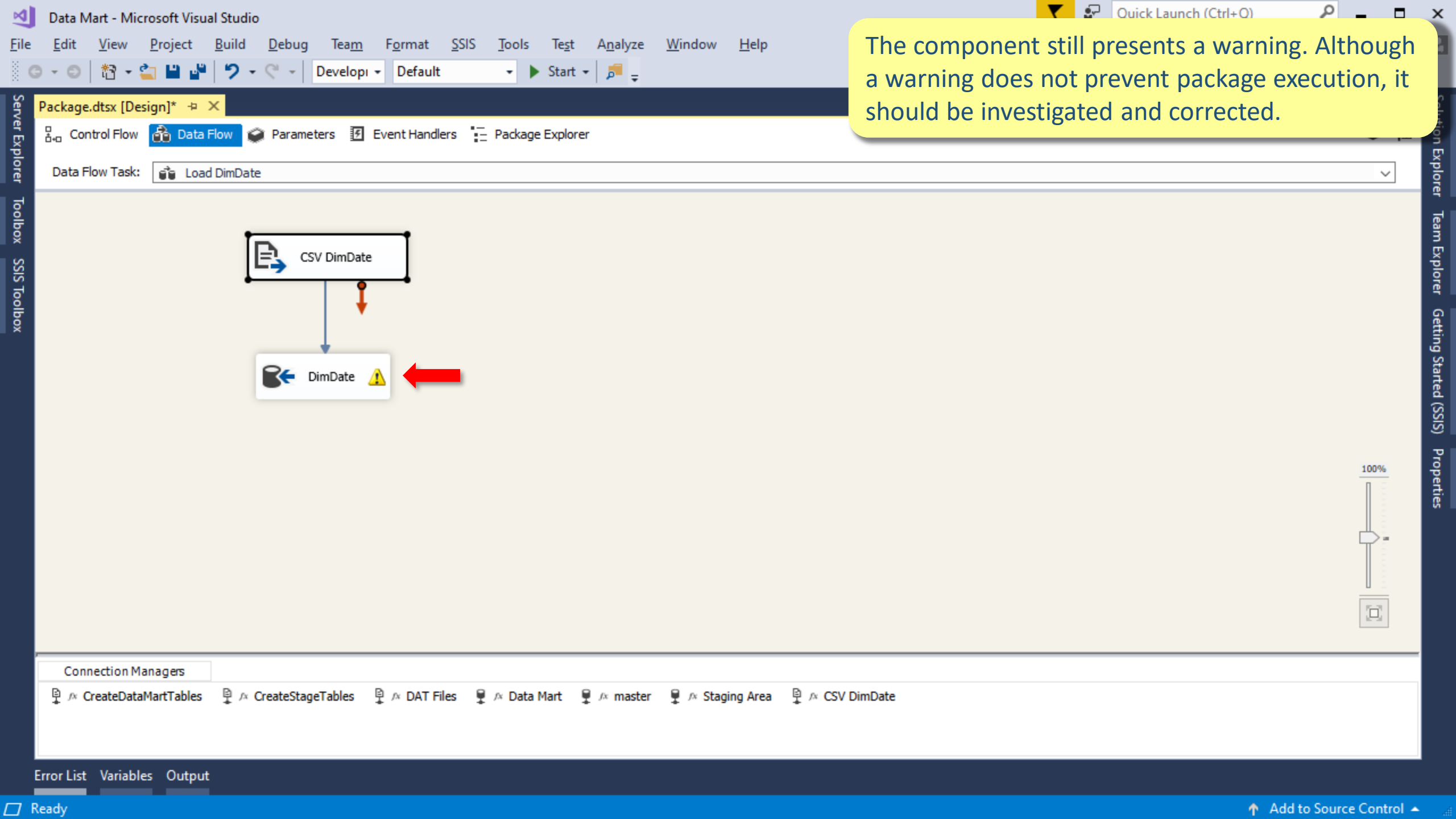


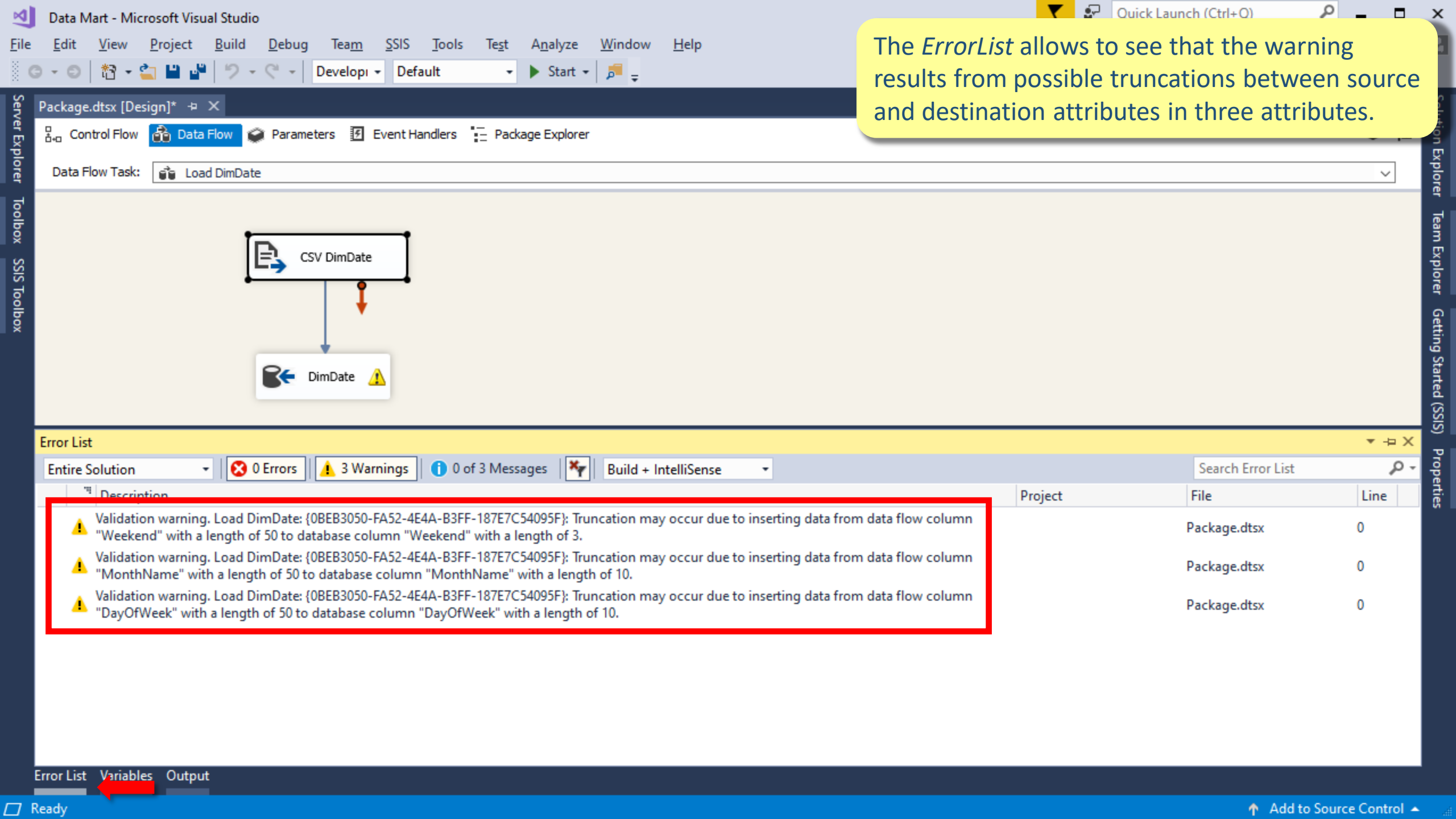
In the *Advanced* tab (on the left side) change the *Weekend* data type to *Unicode string*. Actually, you could have performed these changes in a single step by first selecting the three attributes and then changing their *DataType* property to *Unicode String*.


Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Start
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
CSV DimDate
DimDate
Double click the *CSV DimDate Flat File Source* in order to edit it to update it with the changes made to the *CSV DimDate Connection Manager*.
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Team Explorer
Getting Started (SSIS)
Properties

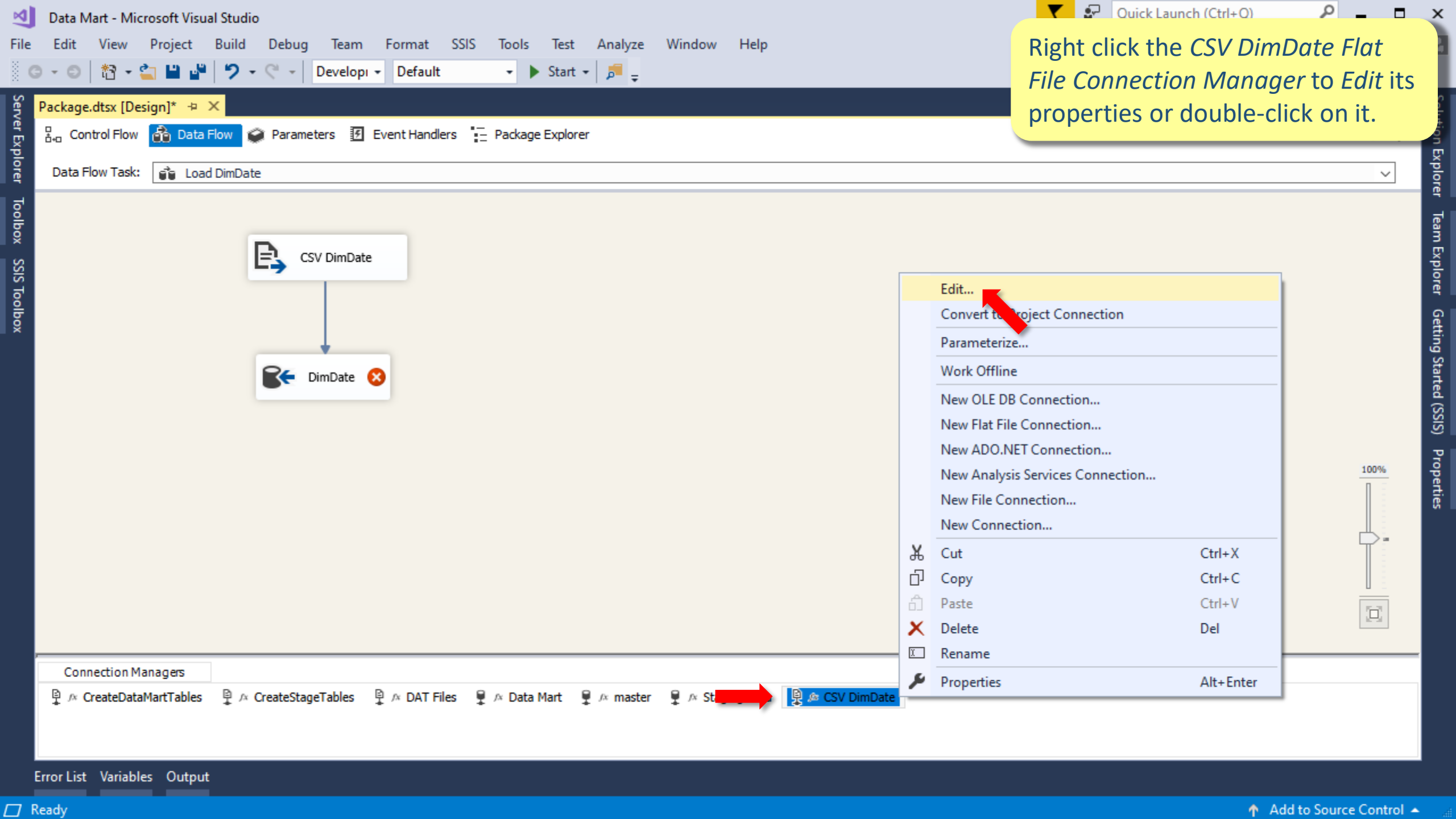

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Confirm the update of the component metadata.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
CSV DimDate
Microsoft Visual Studio
The metadata of the following output columns does not match the metadata of the external columns with which the output columns are associated:
Output "Flat File Source Output": "MonthName", "DayOfWeek", "Weekend"
Do you want to replace the metadata of the output columns with the metadata of the external columns?
Copy message
Yes
No
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties

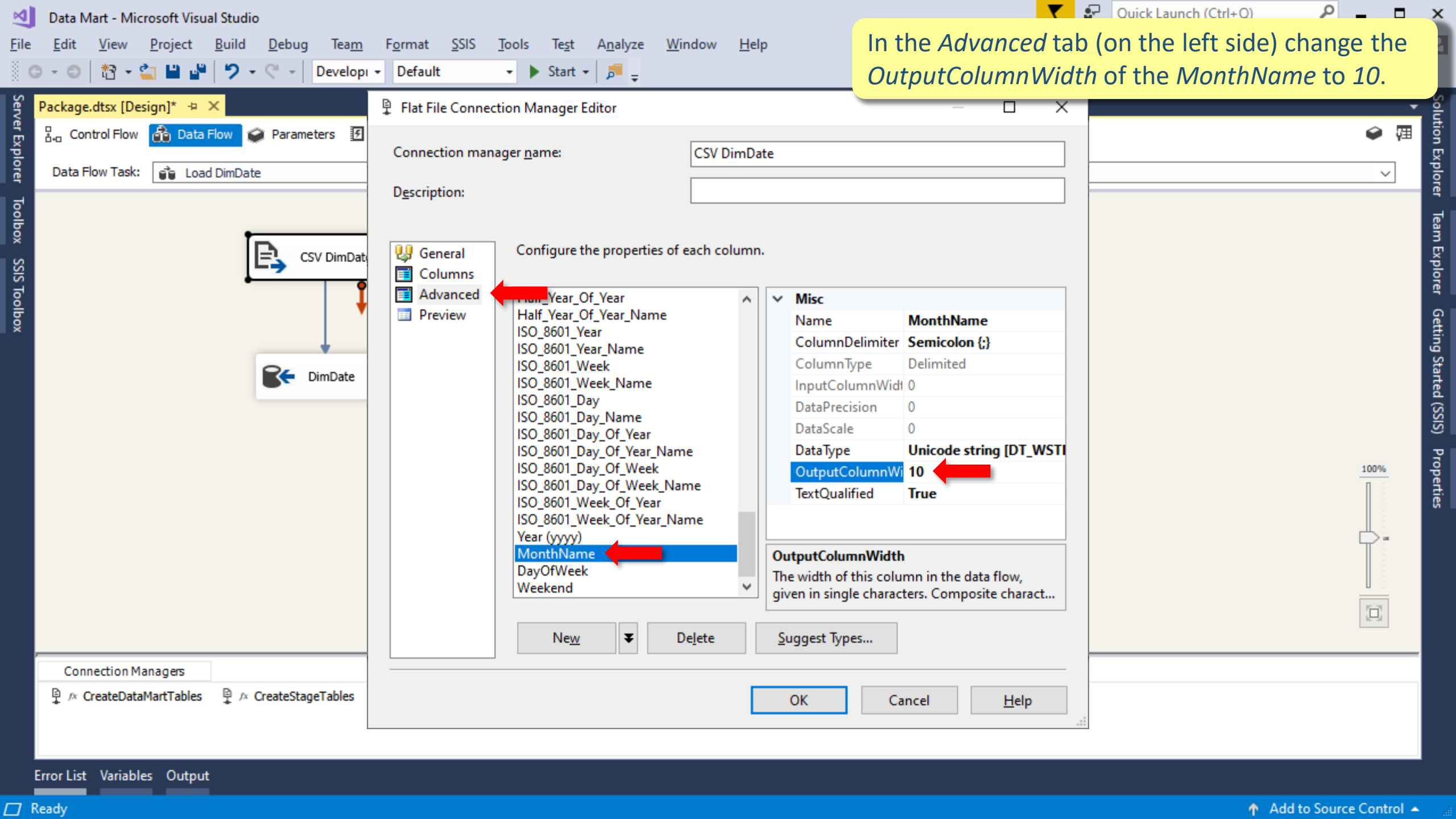

Data Mart - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug
Sign in
Package.dtsx [Design]*
Control Flow
Data Flow
Data Flow Task:
Load DimDate
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties
100%
Connection Managers
CreateDataMartTables
Error List
Variables
Output
Ready
Add to Source Control
Flat File Source Editor
Configure the properties used to connect to and obtain data from a text file.
Connection Manager
Columns
Error Output
Flat file connection manager:
CSV DimDate
New...
Retain null values from the source as null values in the data flow
Preview...
OK
Cancel
Help

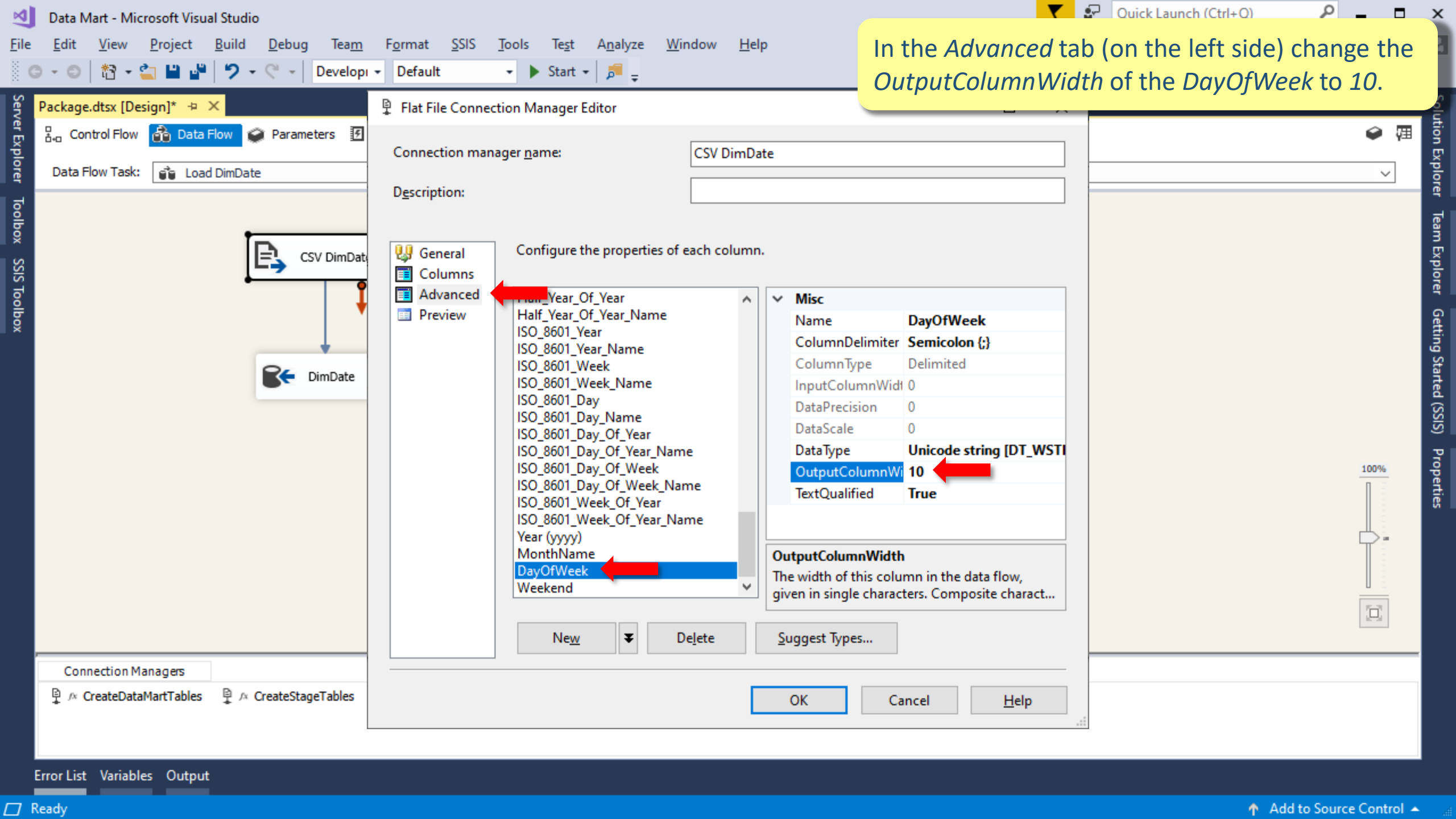

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Start
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
CSV DimDate
DimDate
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Team Explorer
Getting Started (SSIS)
Properties
The component still presents a warning. Although a warning does not prevent package execution, it should be investigated and corrected.

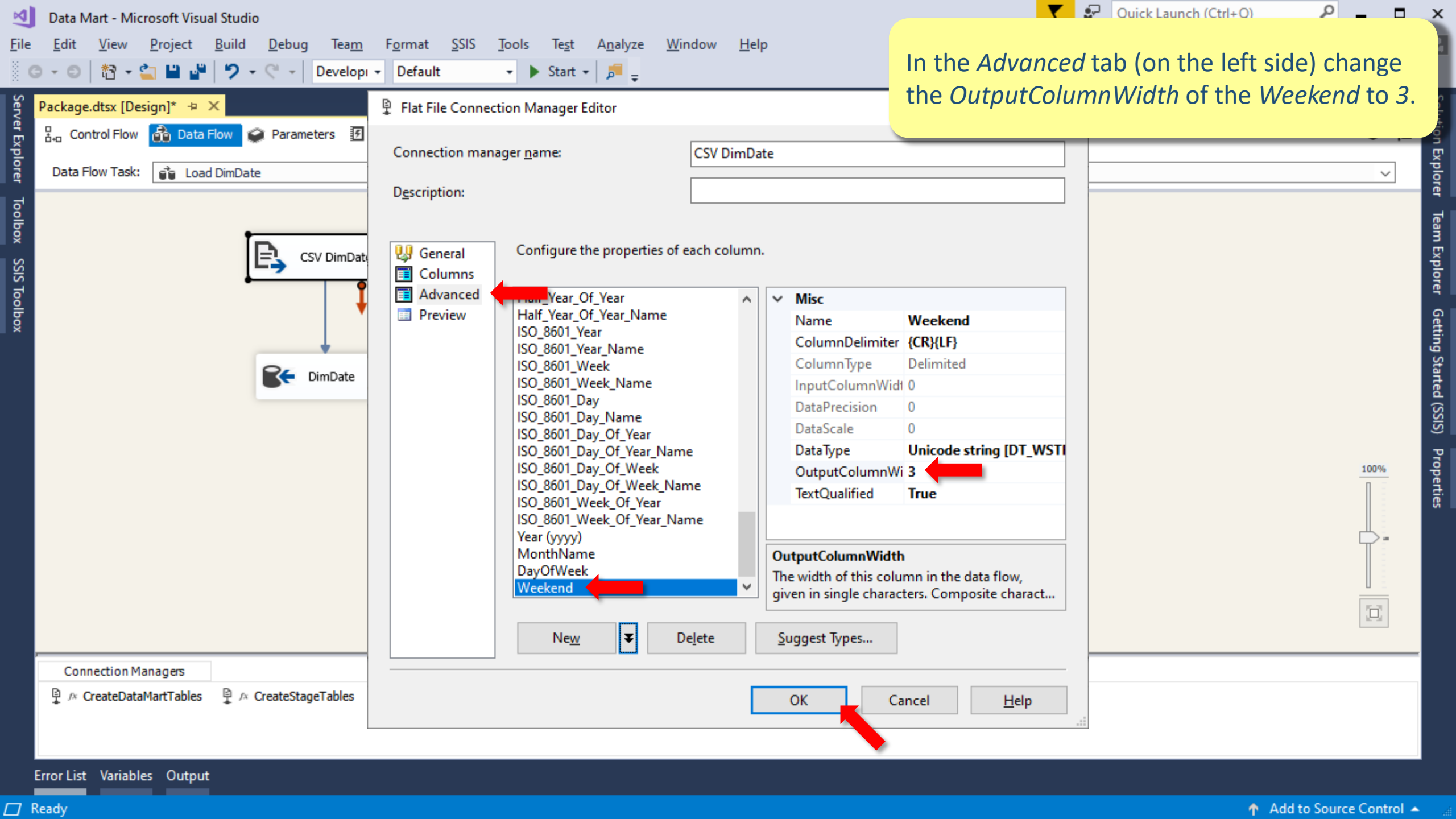


The *ErrorList* allows to see that the warning results from possible truncations between source and destination attributes in three attributes.

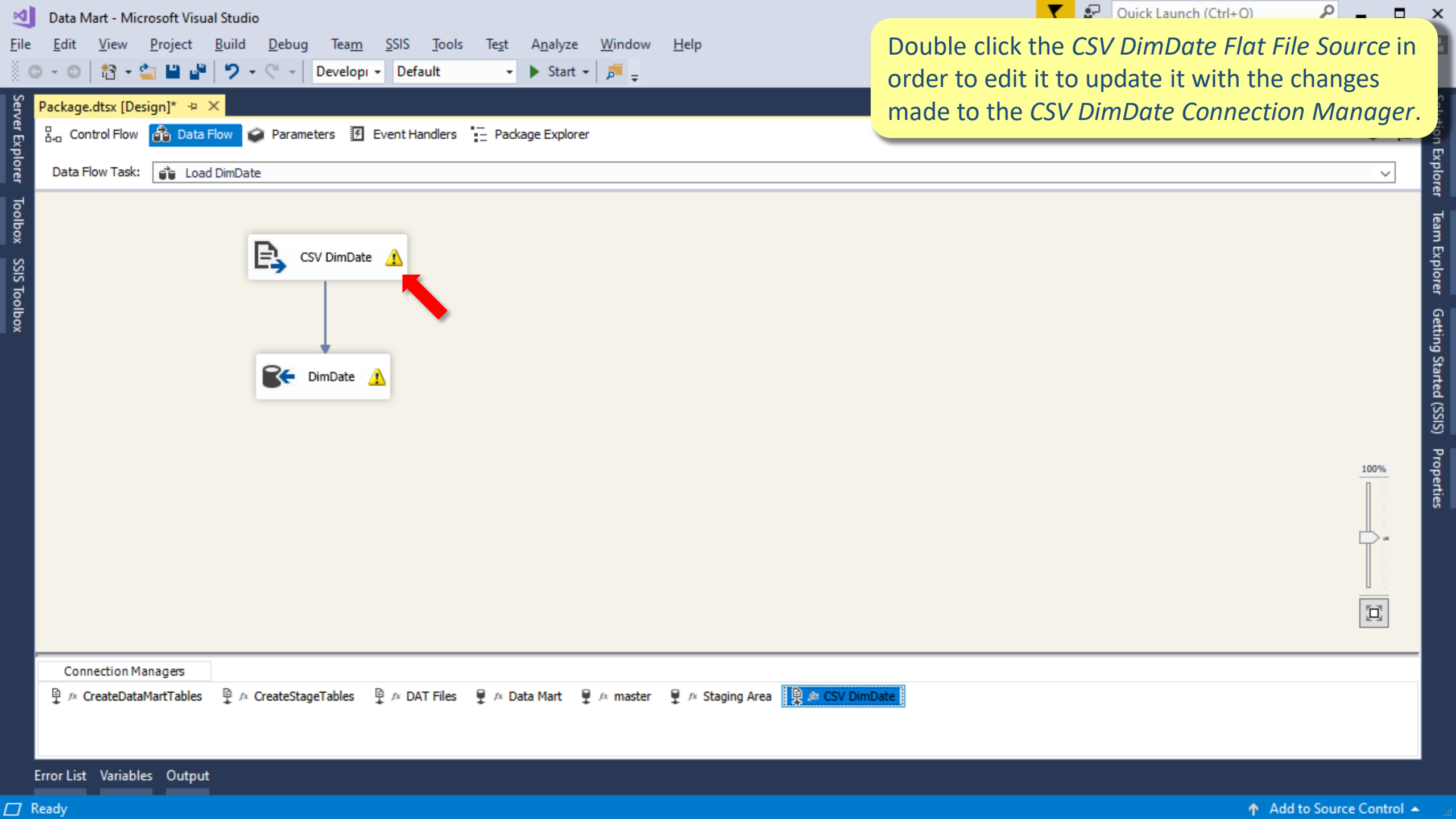

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Right click the *CSV DimDate Flat File Connection Manager* to *Edit* its properties or double-click on it.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
CSV DimDate
DimDate
Edit...
Convert to Project Connection
Parameterize...
Work Offline
New OLE DB Connection...
New Flat File Connection...
New ADO.NET Connection...
New Analysis Services Connection...
New File Connection...
New Connection...
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Delete Del
Rename
Properties Alt+Enter
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Team Explorer
Getting Started (SSIS)
Properties


In the *Advanced* tab (on the left side) change the *OutputColumnWidth* of the *MonthName* to *10*.
Data Mart - Microsoft Visual Studio
Flat File Connection Manager Editor
Connection manager name:
CSV DimDate
Description:
General
Columns
Advanced
Preview
Configure the properties of each column.
Half_Year_Of_Year
Half_Year_Of_Year_Name
ISO_8601_Year
ISO_8601_Year_Name
ISO_8601_Week
ISO_8601_Week_Name
ISO_8601_Day
ISO_8601_Day_Name
ISO_8601_Day_Of_Year
ISO_8601_Day_Of_Year_Name
ISO_8601_Day_Of_Week
ISO_8601_Day_Of_Week_Name
ISO_8601_Week_Of_Year
ISO_8601_Week_Of_Year_Name
Year (yyyy)
MonthName
DayOfWeek
Weekend
Misc
Name MonthName
ColumnDelimiter Semicolon {;}
ColumnType Delimited
InputColumnWidt 0
DataPrecision 0
DataScale 0
DataType Unicode string [DT_WSTI
OutputColumnWi 10
TextQualified True
OutputColumnWidth
The width of this column in the data flow, given in single characters. Composite charact...
New
Delete
Suggest Types...
OK
Cancel
Help
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Data Flow Task:
Load DimDate
CSV DimDat
DimDate
Connection Managers
CreateDataMartTables
CreateStageTables
Error List
Variables
Output
Ready
Add to Source Control

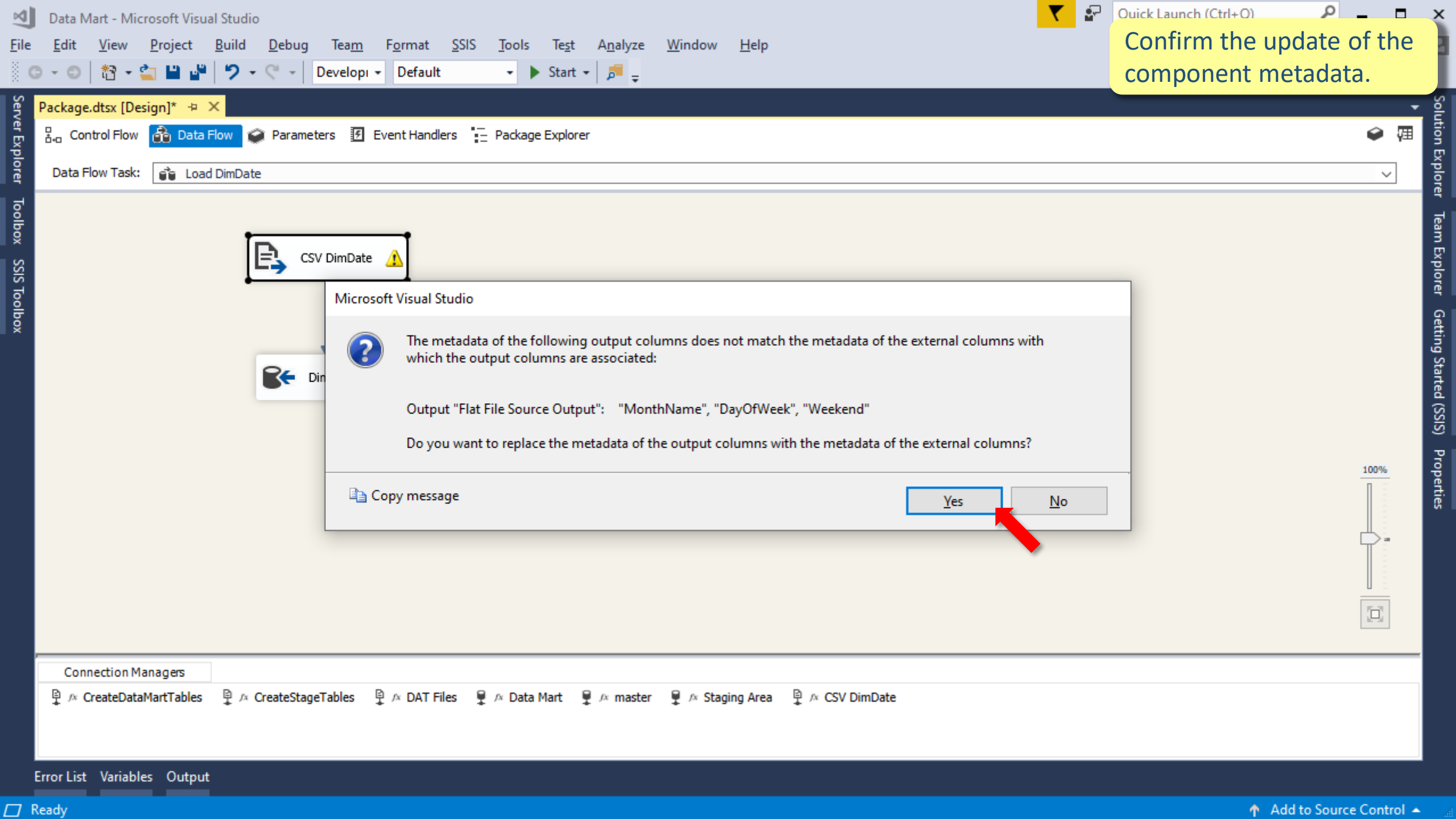

In the *Advanced* tab (on the left side) change the *OutputColumnWidth* of the *DayOfWeek* to *10*.
Data Mart - Microsoft Visual Studio
Flat File Connection Manager Editor
Connection manager name:
CSV DimDate
Description:
General
Columns
Advanced
Preview
Configure the properties of each column.
Half_Year_Of_Year
Half_Year_Of_Year_Name
ISO_8601_Year
ISO_8601_Year_Name
ISO_8601_Week
ISO_8601_Week_Name
ISO_8601_Day
ISO_8601_Day_Name
ISO_8601_Day_Of_Year
ISO_8601_Day_Of_Year_Name
ISO_8601_Day_Of_Week
ISO_8601_Day_Of_Week_Name
ISO_8601_Week_Of_Year
ISO_8601_Week_Of_Year_Name
Year (yyyy)
MonthName
DayOfWeek
Weekend
Misc
Name DayOfWeek
ColumnDelimiter Semicolon {;}
ColumnType Delimited
InputColumnWidt 0
DataPrecision 0
DataScale 0
DataType Unicode string [DT_WSTI
OutputColumnWi 10
TextQualified True
OutputColumnWidth
The width of this column in the data flow, given in single characters. Composite charact...
New
Delete
Suggest Types...
OK
Cancel
Help
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Data Flow Task:
Load DimDate
CSV DimDat
DimDate
Connection Managers
CreateDataMartTables
CreateStageTables
Error List
Variables
Output
Ready
Add to Source Control

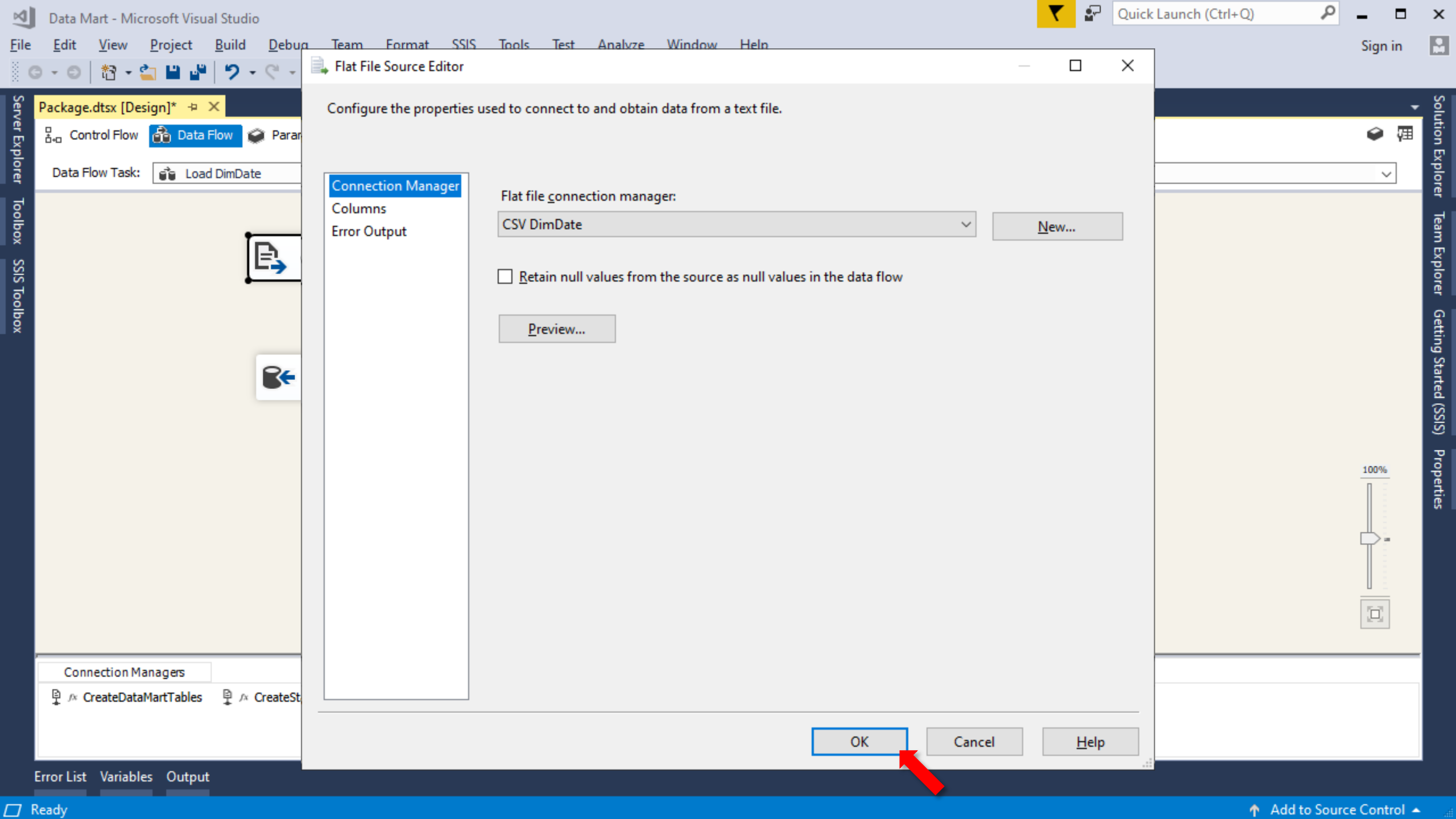


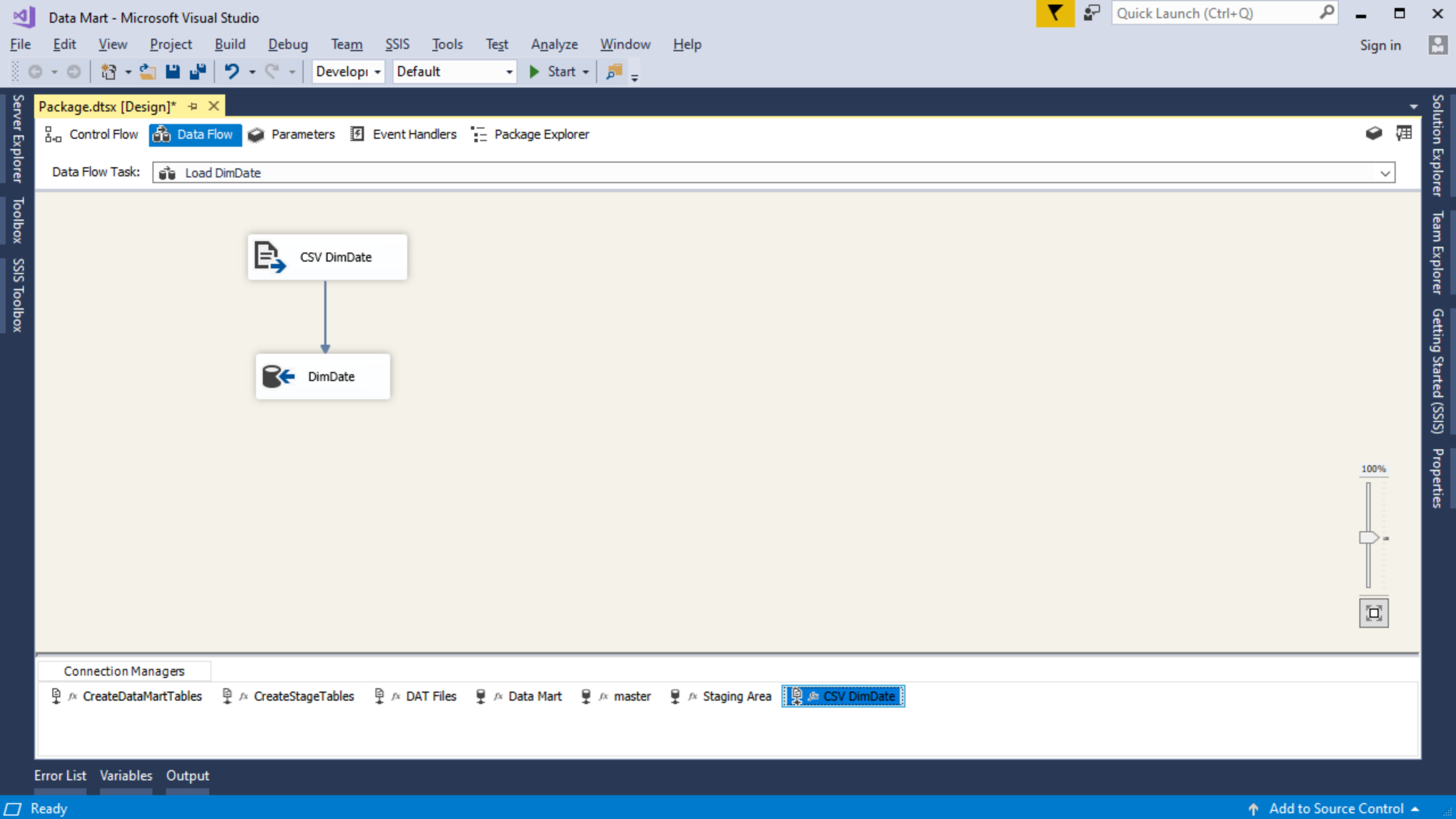
In the *Advanced* tab (on the left side) change the *OutputColumnWidth* of the *Weekend* to *3*.

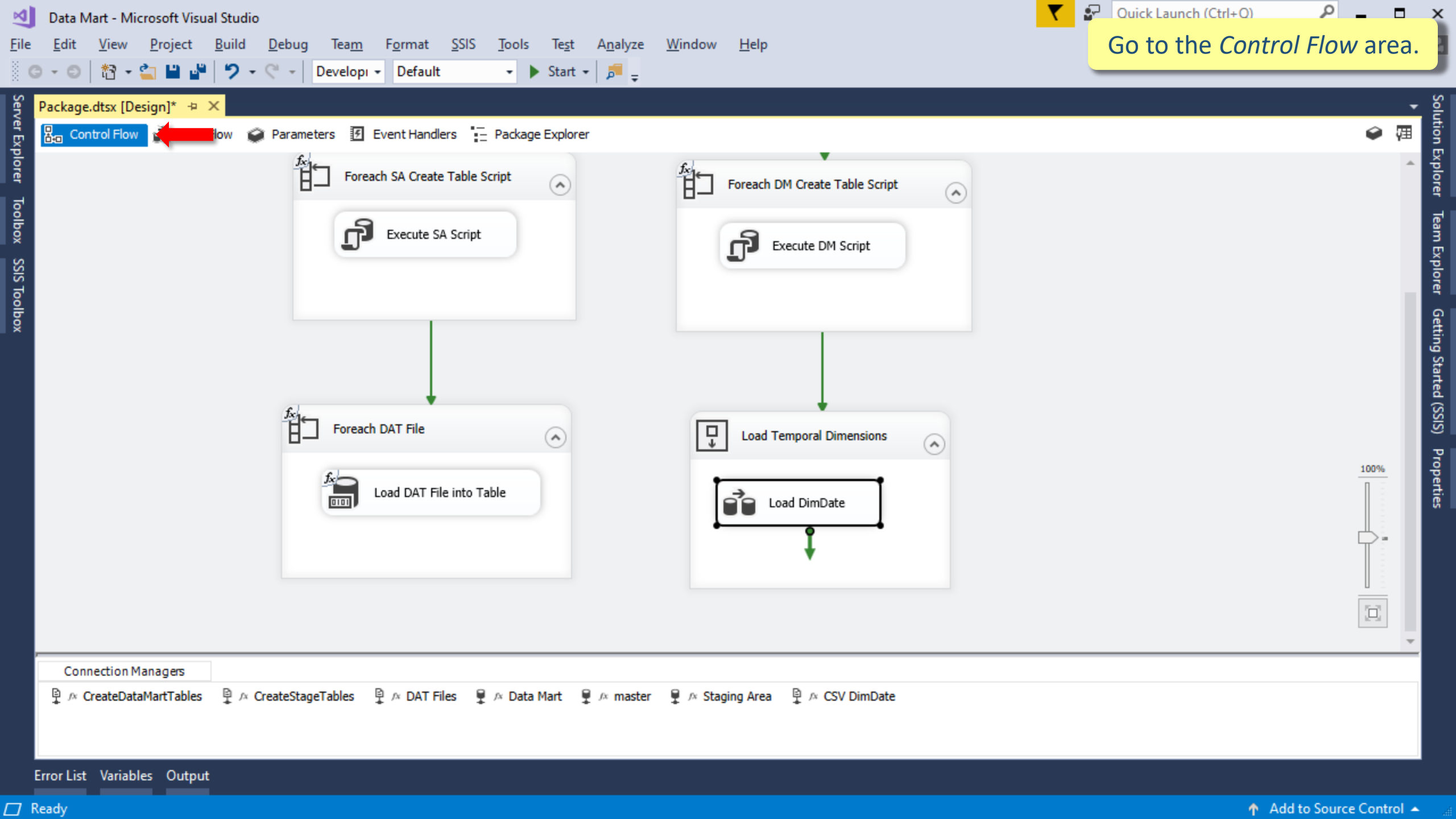


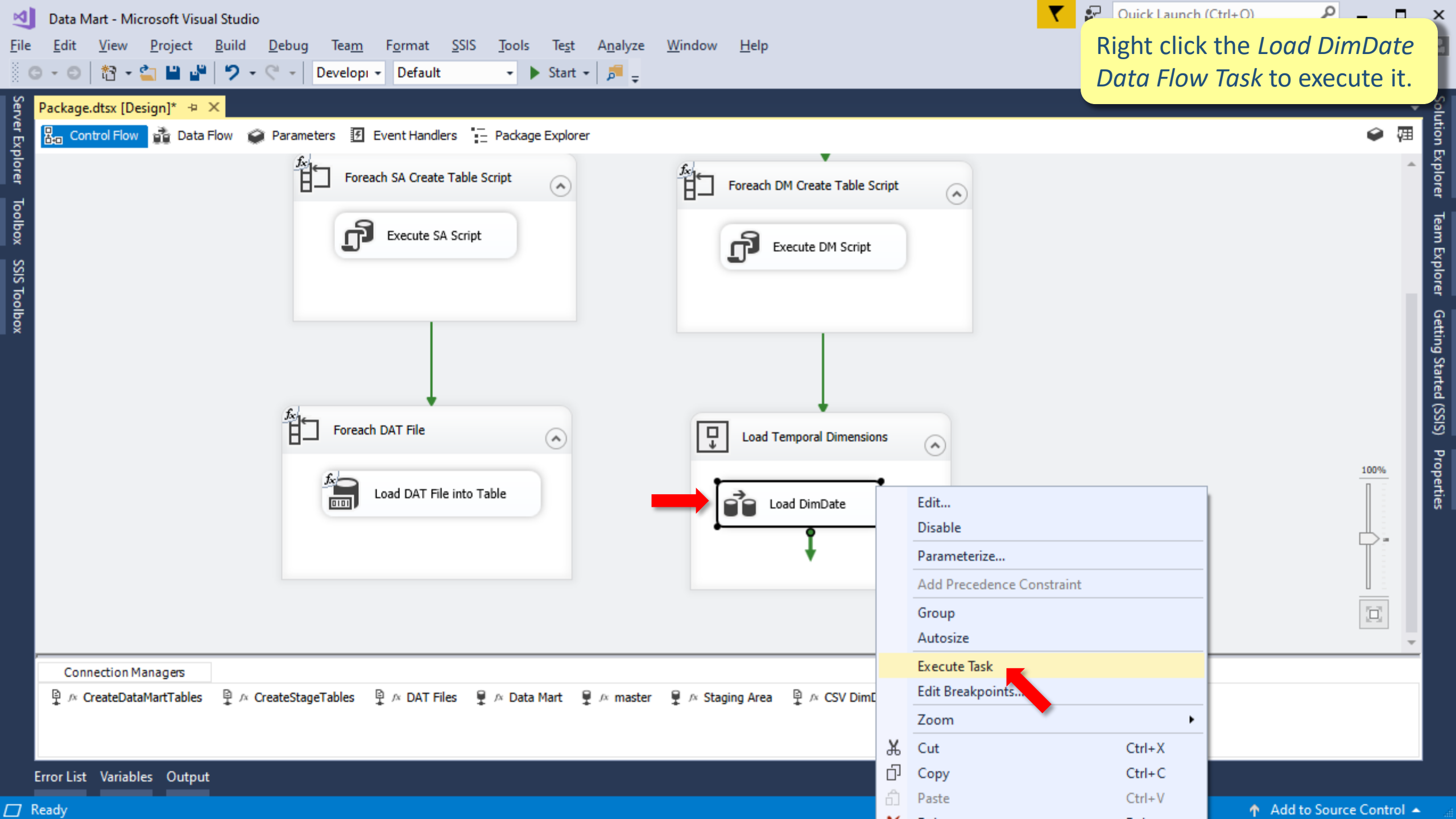
Double click the *CSV DimDate Flat File Source* in order to edit it to update it with the changes made to the *CSV DimDate Connection Manager*.

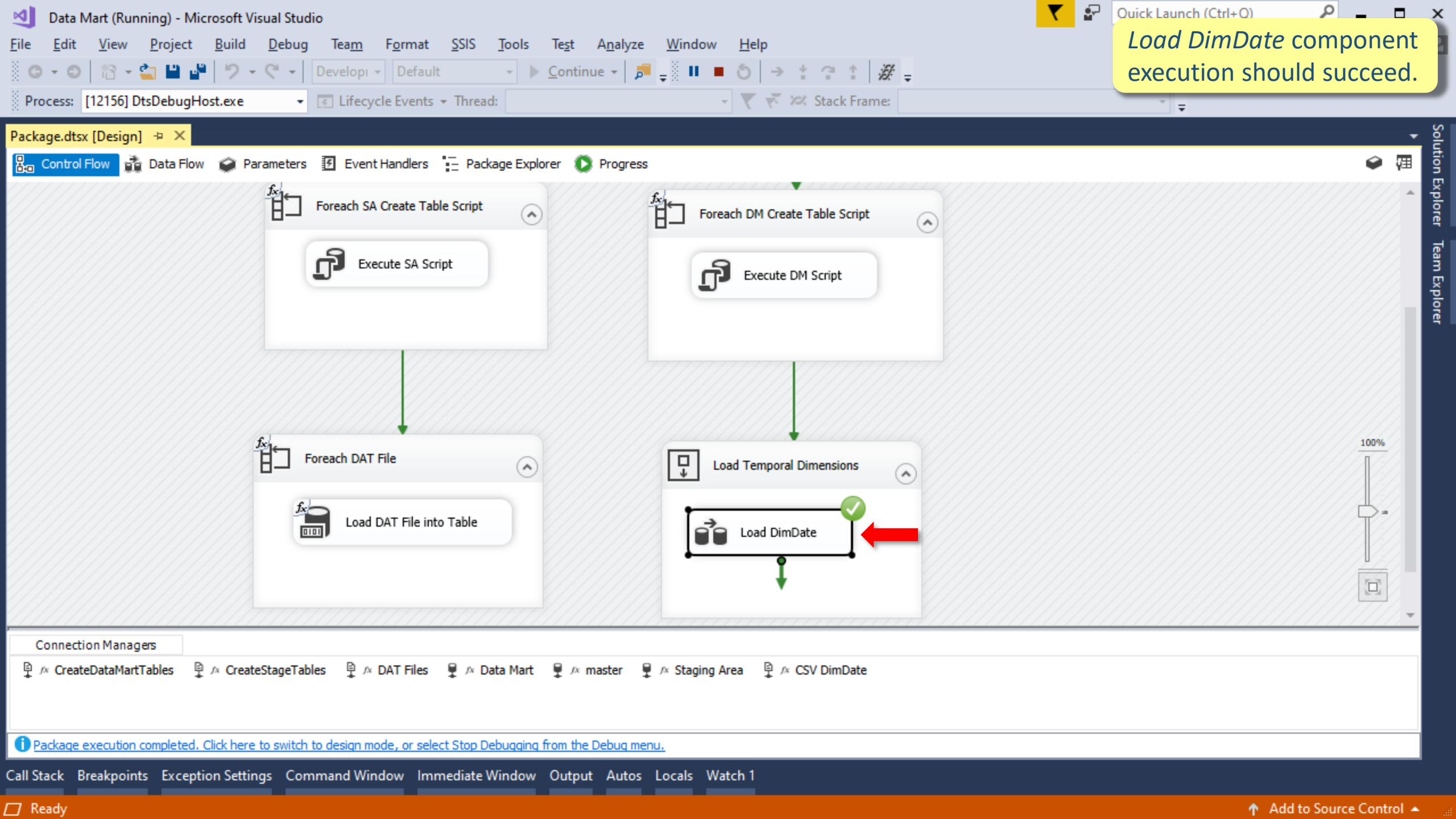

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Confirm the update of the component metadata.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
CSV DimDate
Microsoft Visual Studio
The metadata of the following output columns does not match the metadata of the external columns with which the output columns are associated:
Output "Flat File Source Output": "MonthName", "DayOfWeek", "Weekend"
Do you want to replace the metadata of the output columns with the metadata of the external columns?
Copy message
Yes
No
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties

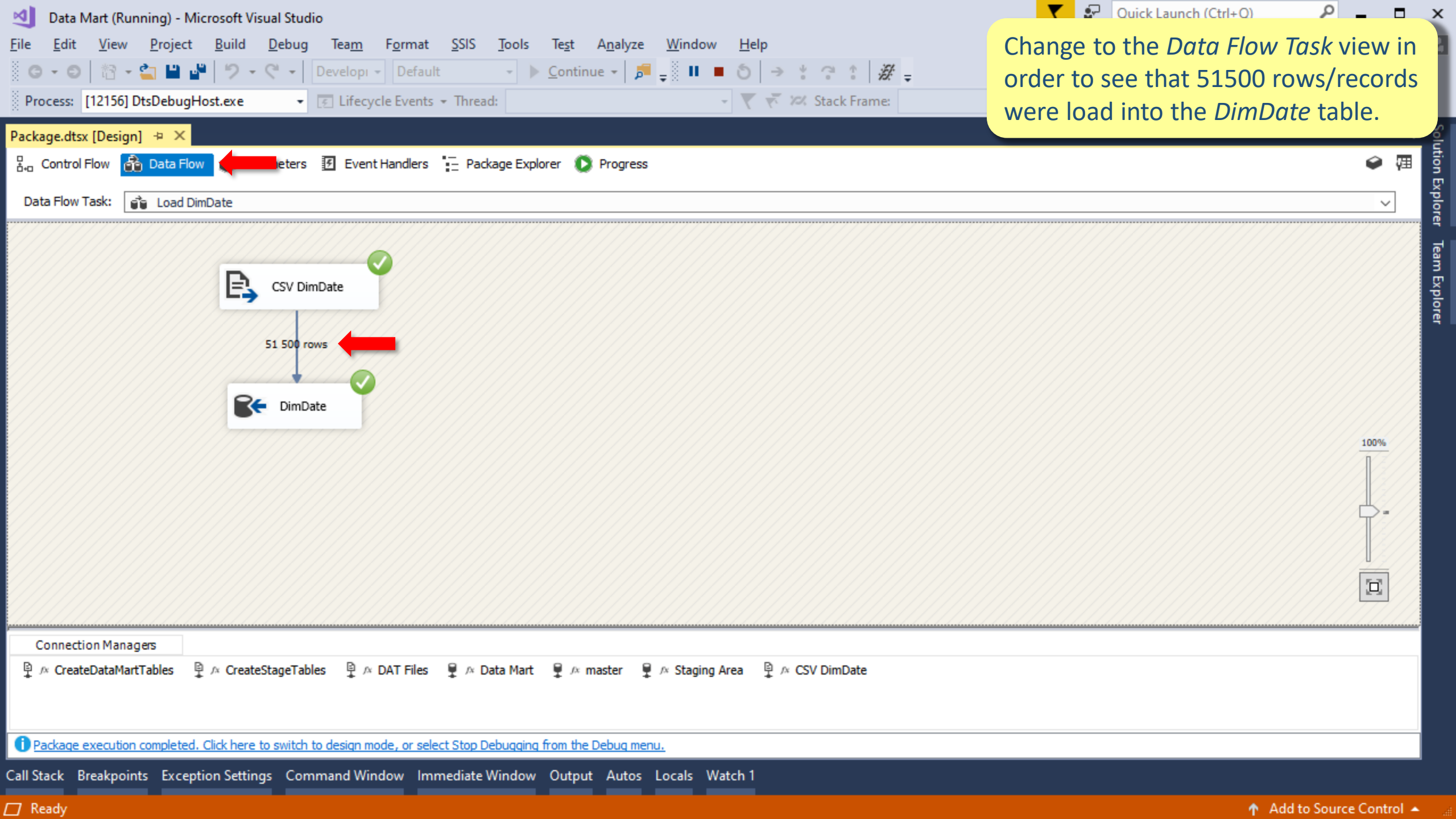

Data Mart - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Sign in
Package.dtsx [Design]*
Control Flow
Data Flow
Data Flow Task:
Load DimDate
Flat File Source Editor
Configure the properties used to connect to and obtain data from a text file.
Connection Manager
Columns
Error Output
Flat file connection manager:
CSV DimDate
New...
Retain null values from the source as null values in the data flow
Preview...
OK
Cancel
Help
Connection Managers
CreateDataMartTables
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties
100%

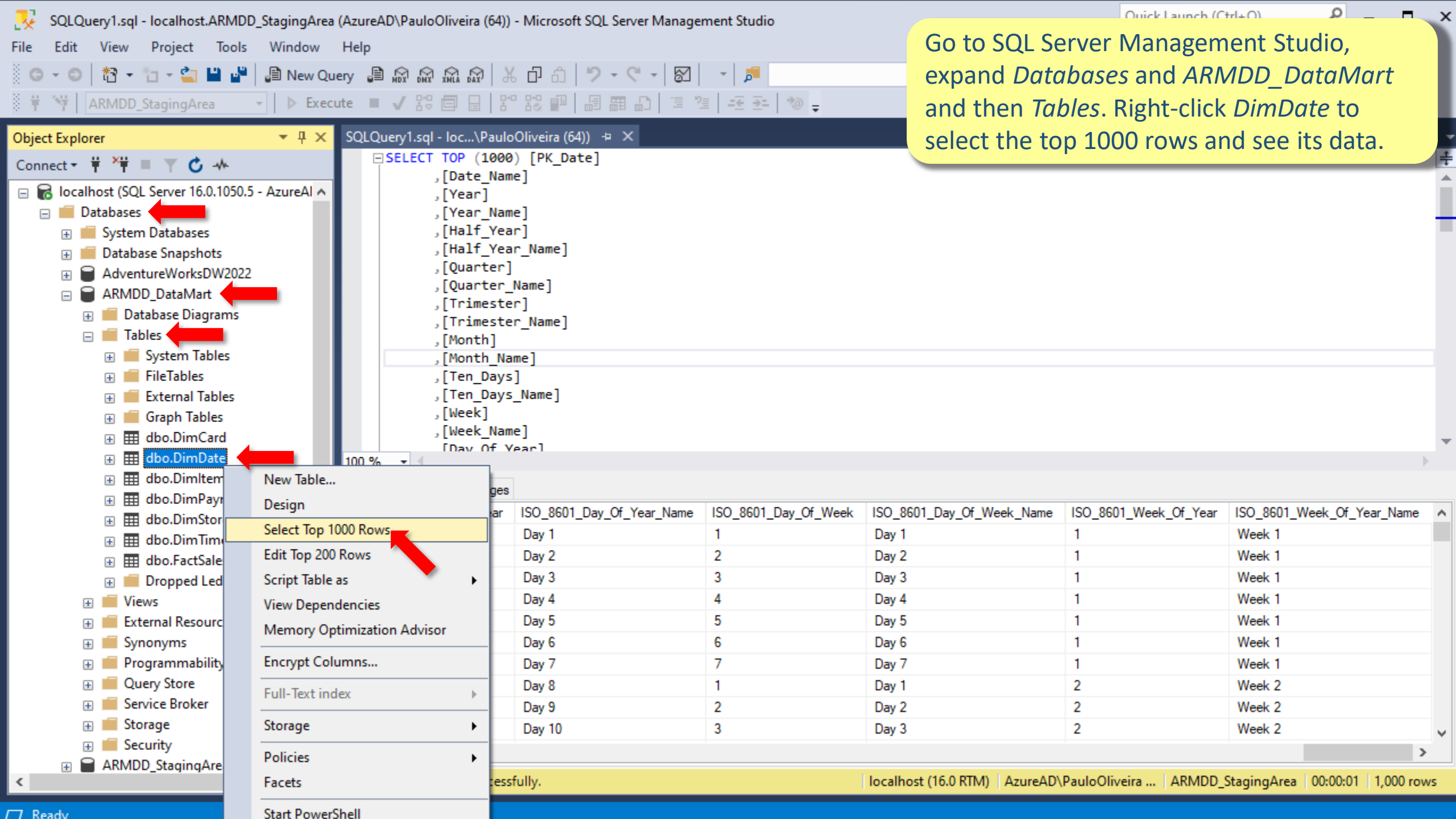

Data Mart - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Sign in
Start
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Load DimDate
CSV DimDate
DimDate
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties


Data Mart - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Start
Go to the *Control Flow* area.
Package.dtsx [Design]*
Control Flow
Parameters
Event Handlers
Package Explorer
Foreach SA Create Table Script
Execute SA Script
Foreach DM Create Table Script
Execute DM Script
Foreach DAT File
Load DAT File into Table
Load Temporal Dimensions
Load DimDate
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties

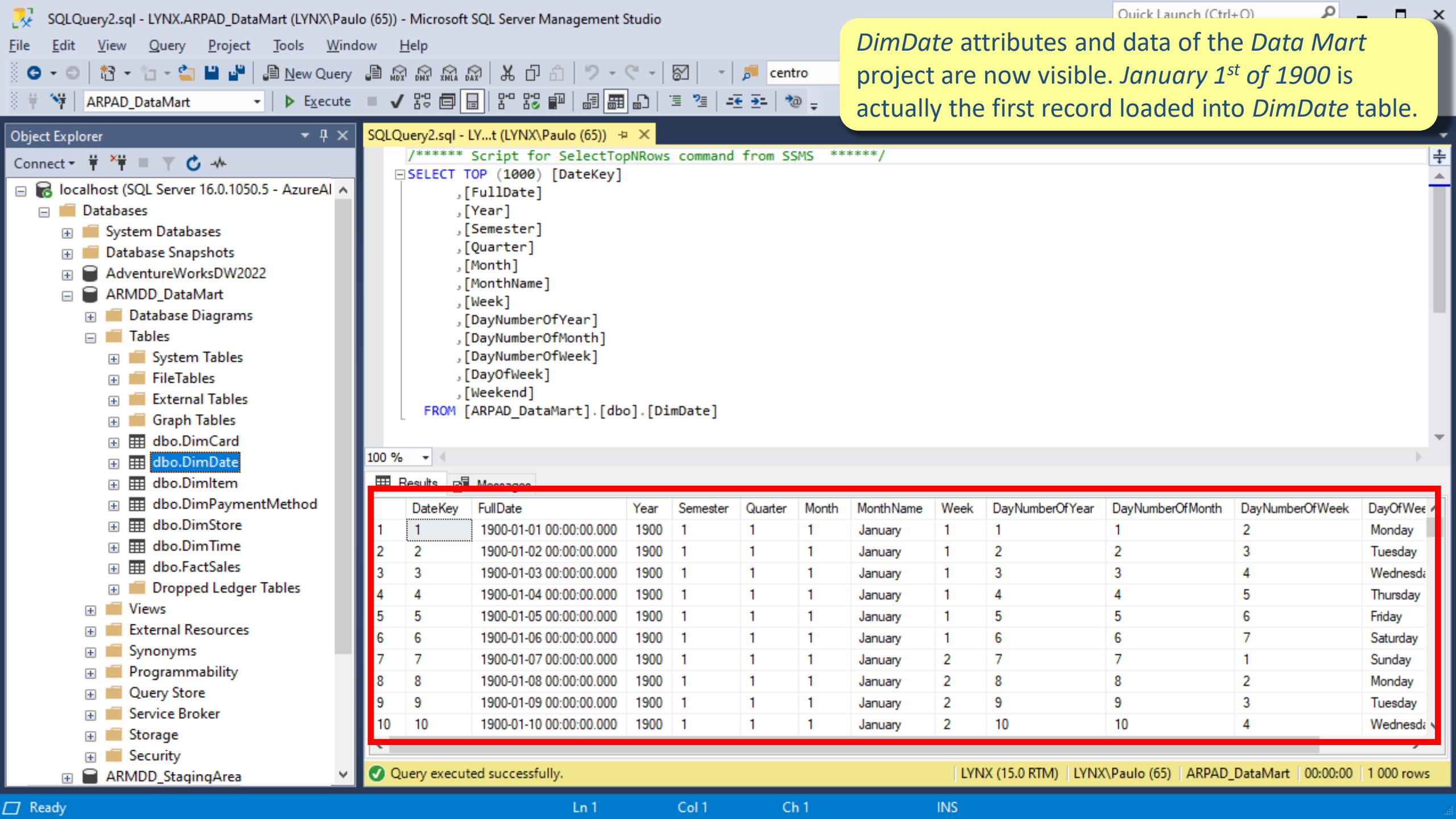

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Right click the *Load DimDate Data Flow Task* to execute it.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Foreach SA Create Table Script
Execute SA Script
Foreach DM Create Table Script
Execute DM Script
Foreach DAT File
Load DAT File into Table
Load Temporal Dimensions
Load DimDate
Edit...
Disable
Parameterize...
Add Precedence Constraint
Group
Autosize
Execute Task
Edit Breakpoints...
Zoom
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
Error List
Variables
Output
Ready
Add to Source Control


Data Mart (Running) - Microsoft Visual Studio
Load DimDate component execution should succeed.
Package.dtsx [Design]
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Progress
Foreach SA Create Table Script
Execute SA Script
Foreach DM Create Table Script
Execute DM Script
Foreach DAT File
Load DAT File into Table
Load Temporal Dimensions
Load DimDate
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Package execution completed. Click here to switch to design mode, or select Stop Debugging from the Debug menu.
Call Stack
Breakpoints
Exception Settings
Command Window
Immediate Window
Output
Autos
Locals
Watch 1
Ready
Add to Source Control

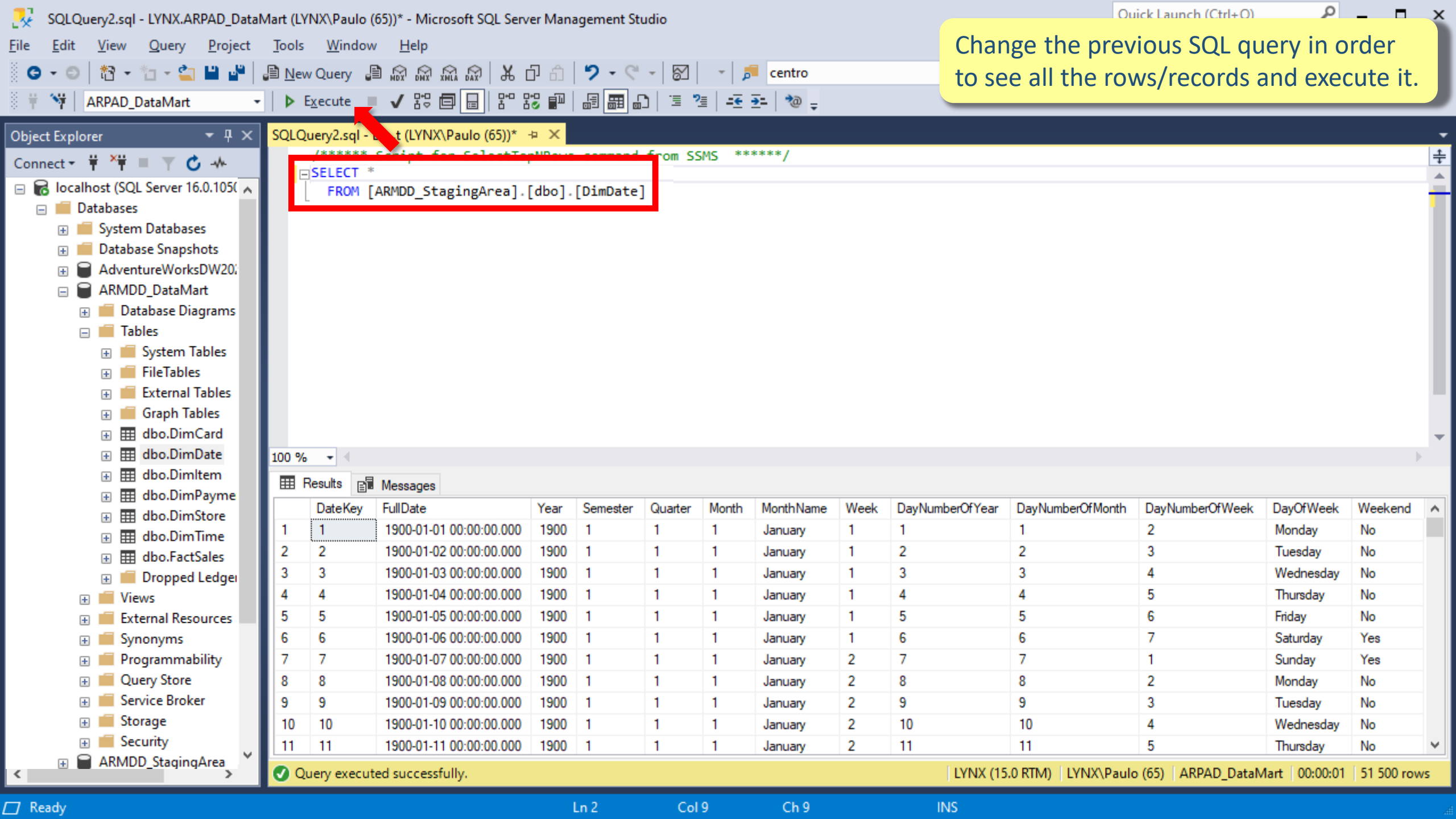

Data Mart (Running) - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Process: [12156] DtsDebugHost.exe
Lifecycle Events Thread:
Stack Frame:
Change to the *Data Flow Task* view in order to see that 51500 rows/records were load into the *DimDate* table.
Package.dtsx [Design]
Control Flow
Data Flow
Event Handlers
Package Explorer
Progress
Data Flow Task:
Load DimDate
CSV DimDate
51 500 rows
DimDate
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Package execution completed. Click here to switch to design mode, or select Stop Debugging from the Debug menu.
Call Stack Breakpoints Exception Settings Command Window Immediate Window Output Autos Locals Watch 1
Ready
Add to Source Control
Solution Explorer
Team Explorer

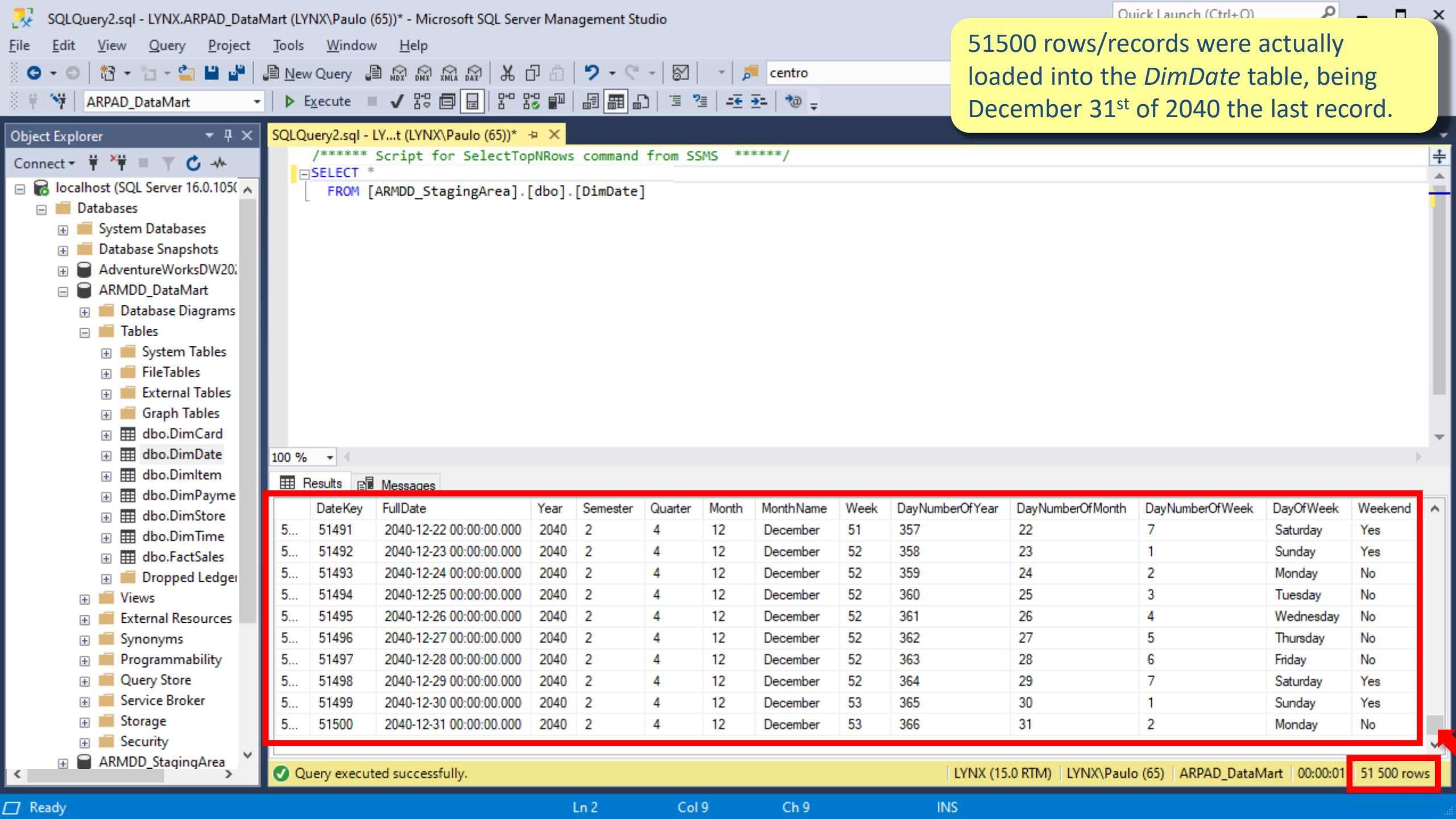


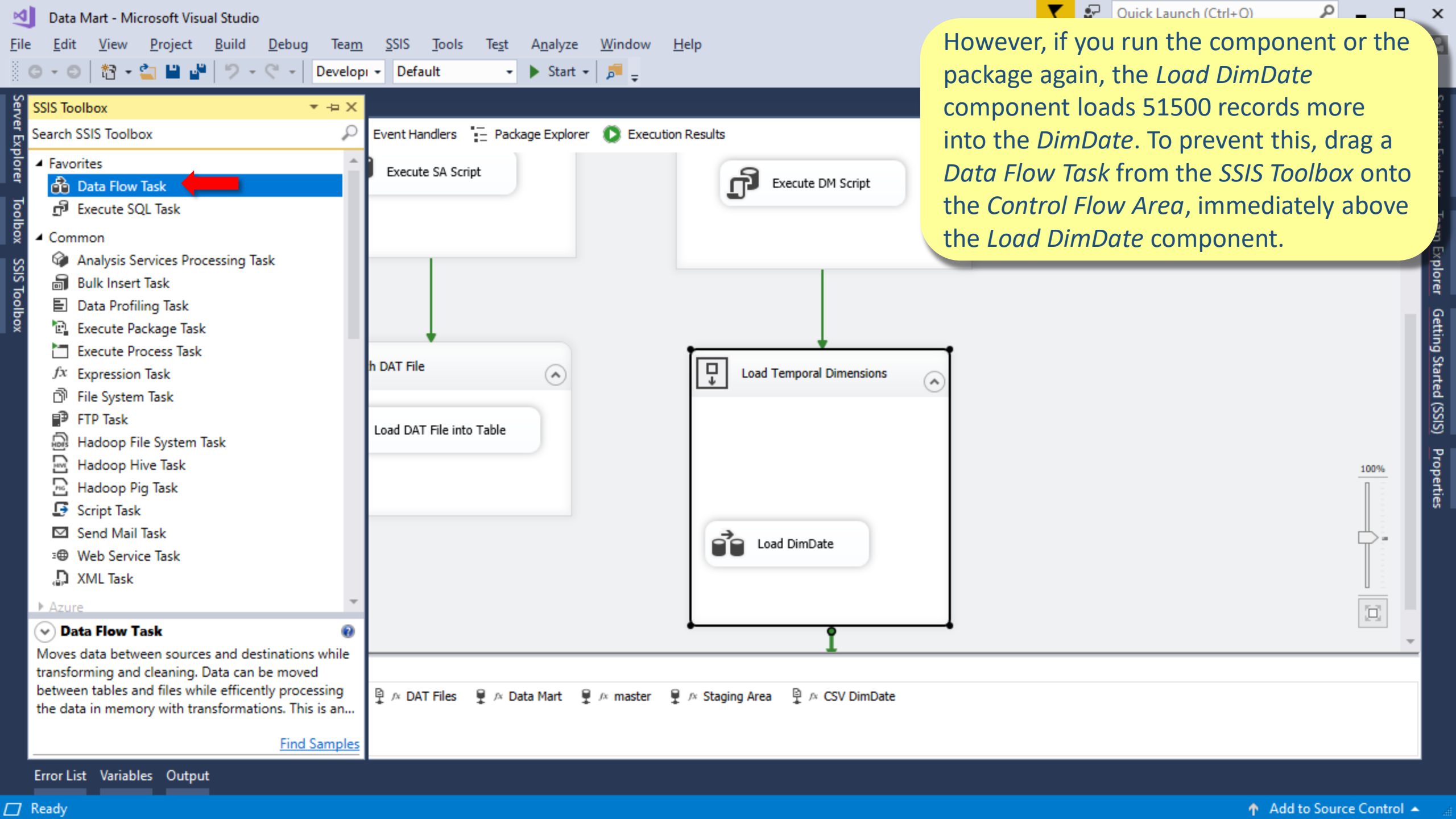
Go to SQL Server Management Studio, expand *Databases* and *ARMDD_DataMart* and then *Tables*. Right-click *DimDate* to select the top 1000 rows and see its data.

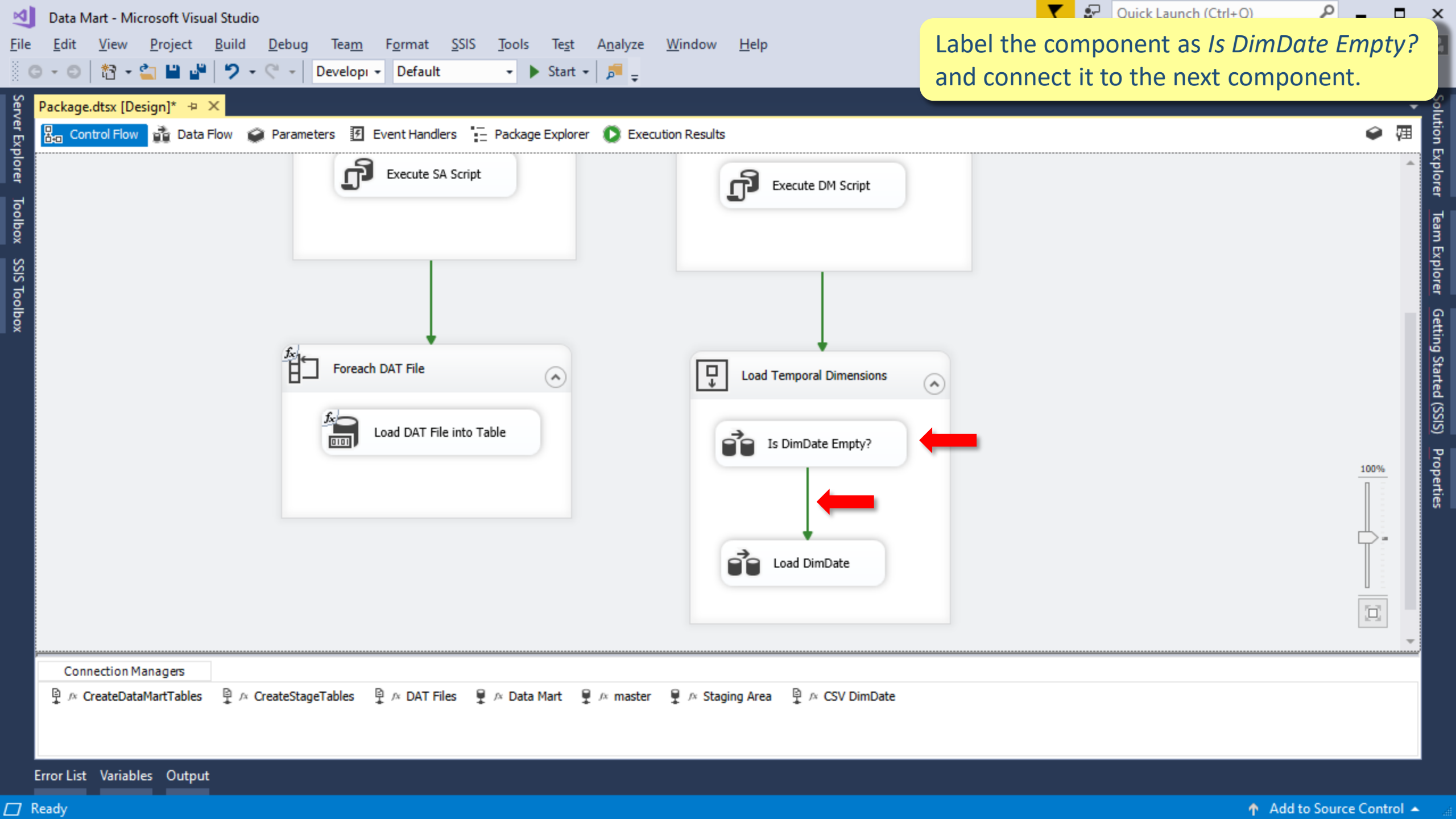


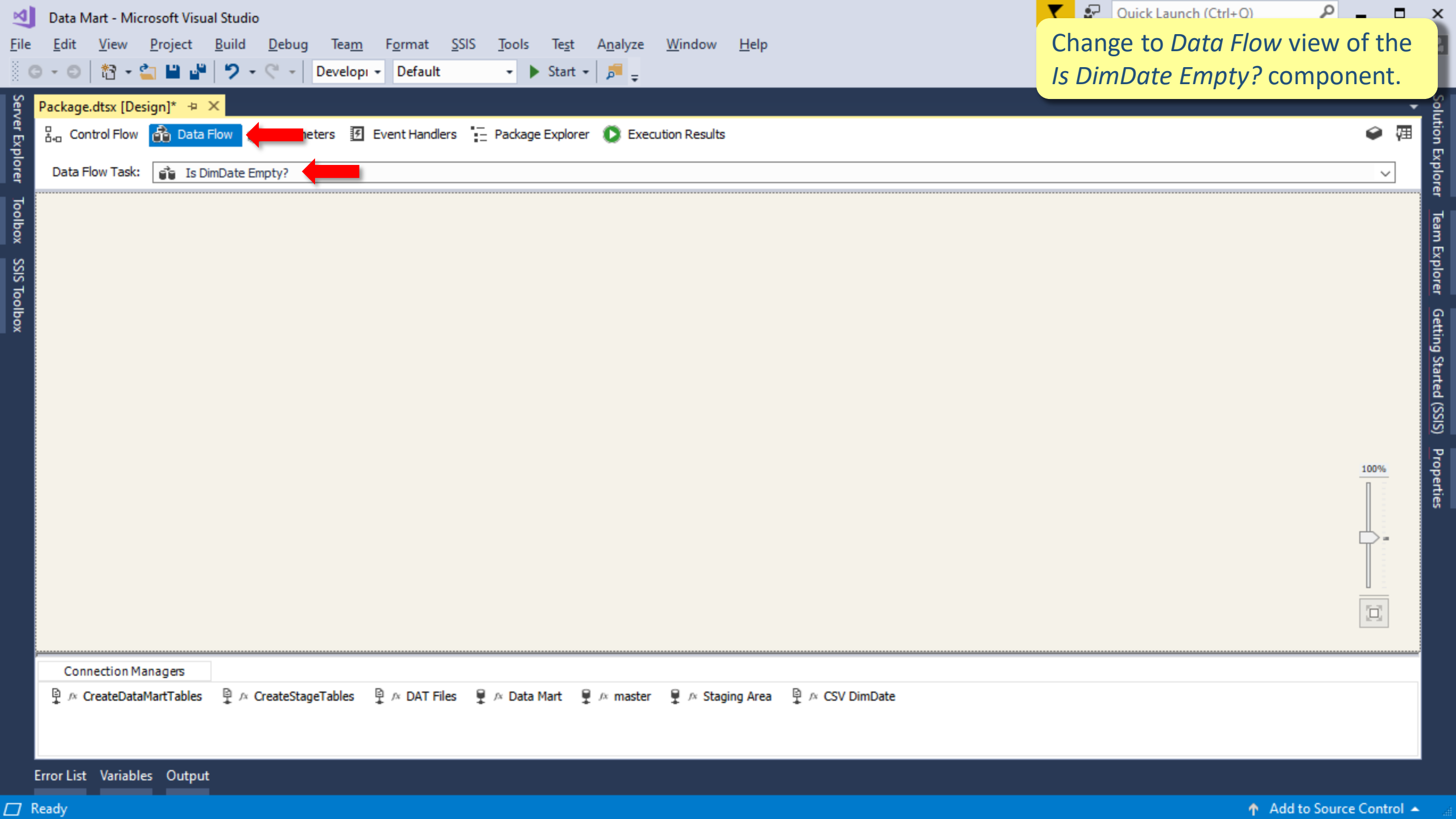
DimDate attributes and data of the *Data Mart* project are now visible. *January 1st of 1900* is actually the first record loaded into *DimDate* table.

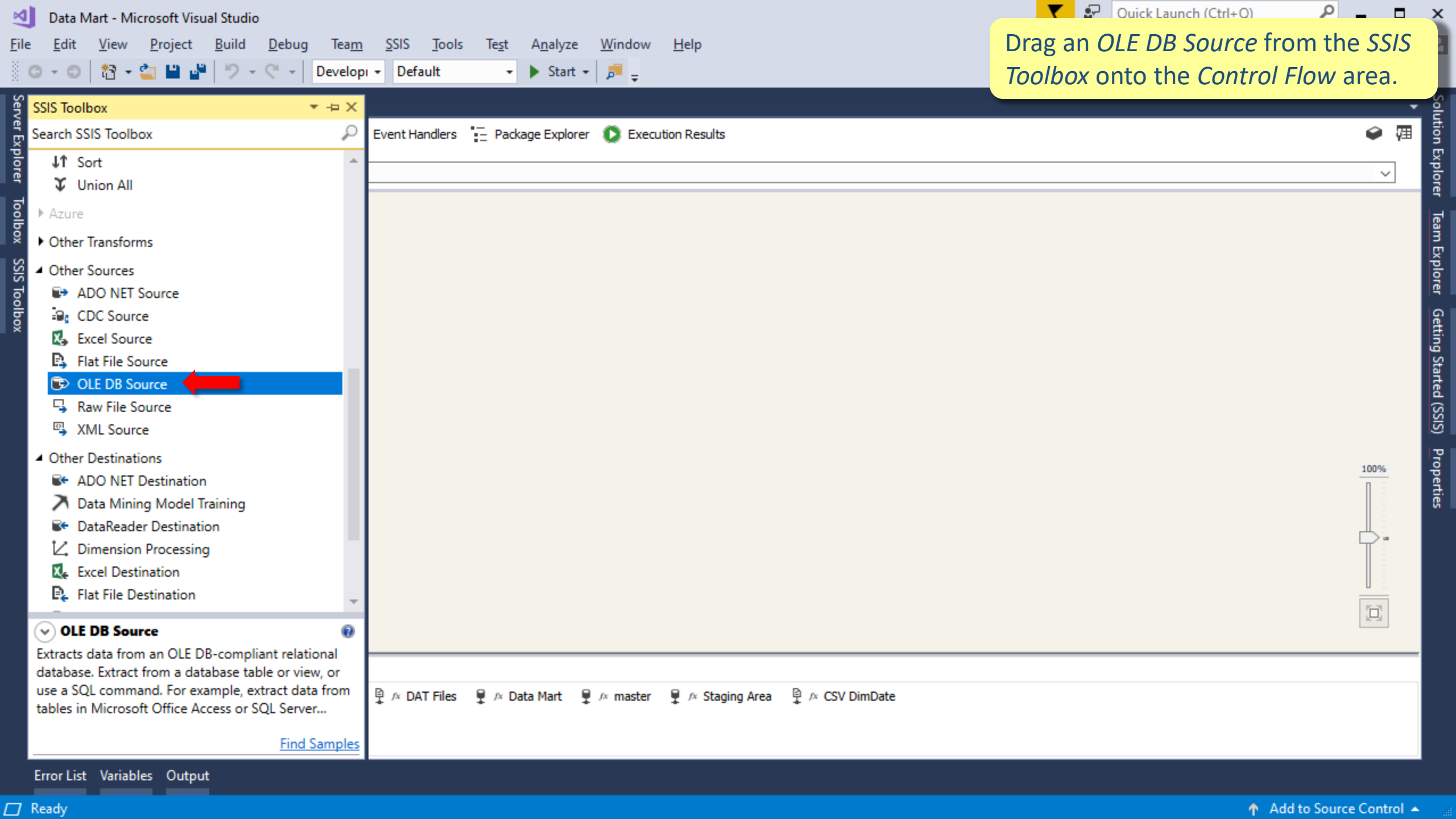

SQLQuery2.sql - LYNX.ARPAD_DataMart (LYNX\Paulo (65))* - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query
centro
ARPAD_DataMart
Execute
Change the previous SQL query in order to see all the rows/records and execute it.
Object Explorer
Connect
localhost (SQL Server 16.0.105(
Databases
System Databases
Database Snapshots
AdventureWorksDW20
ARMDD_DataMart
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.DimCard
dbo.DimDate
dbo.DimItem
dbo.DimPayme
dbo.DimStore
dbo.DimTime
dbo.FactSales
Dropped Ledge
Views
External Resources
Synonyms
Programmability
Query Store
Service Broker
Storage
Security
ARMDD_StagingArea
SQLQuery2.sql - t (LYNX\Paulo (65))*
******/
SELECT *
FROM [ARMDD_StagingArea].[dbo].[DimDate]
100 %
Results
Messages
DateKey FullDate Year Semester Quarter Month MonthName Week DayNumberOfYear DayNumberOfMonth DayNumberOfWeek DayOfWeek Weekend
1 1 1900-01-01 00:00:00.000 1900 1 1 1 January 1 1 1 2 Monday No
2 2 1900-01-02 00:00:00.000 1900 1 1 1 January 1 2 2 3 Tuesday No
3 3 1900-01-03 00:00:00.000 1900 1 1 1 January 1 3 3 4 Wednesday No
4 4 1900-01-04 00:00:00.000 1900 1 1 1 January 1 4 4 5 Thursday No
5 5 1900-01-05 00:00:00.000 1900 1 1 1 January 1 5 5 6 Friday No
6 6 1900-01-06 00:00:00.000 1900 1 1 1 January 1 6 6 7 Saturday Yes
7 7 1900-01-07 00:00:00.000 1900 1 1 1 January 2 7 7 1 Sunday Yes
8 8 1900-01-08 00:00:00.000 1900 1 1 1 January 2 8 8 2 Monday No
9 9 1900-01-09 00:00:00.000 1900 1 1 1 January 2 9 9 3 Tuesday No
10 10 1900-01-10 00:00:00.000 1900 1 1 1 January 2 10 10 4 Wednesday No
11 11 1900-01-11 00:00:00.000 1900 1 1 1 January 2 11 11 5 Thursday No
Query executed successfully.
LYNX (15.0 RTM) LYNX\Paulo (65) ARPAD_DataMart 00:00:01 51 500 rows
Ready
Ln 2 Col 9 Ch 9 INS

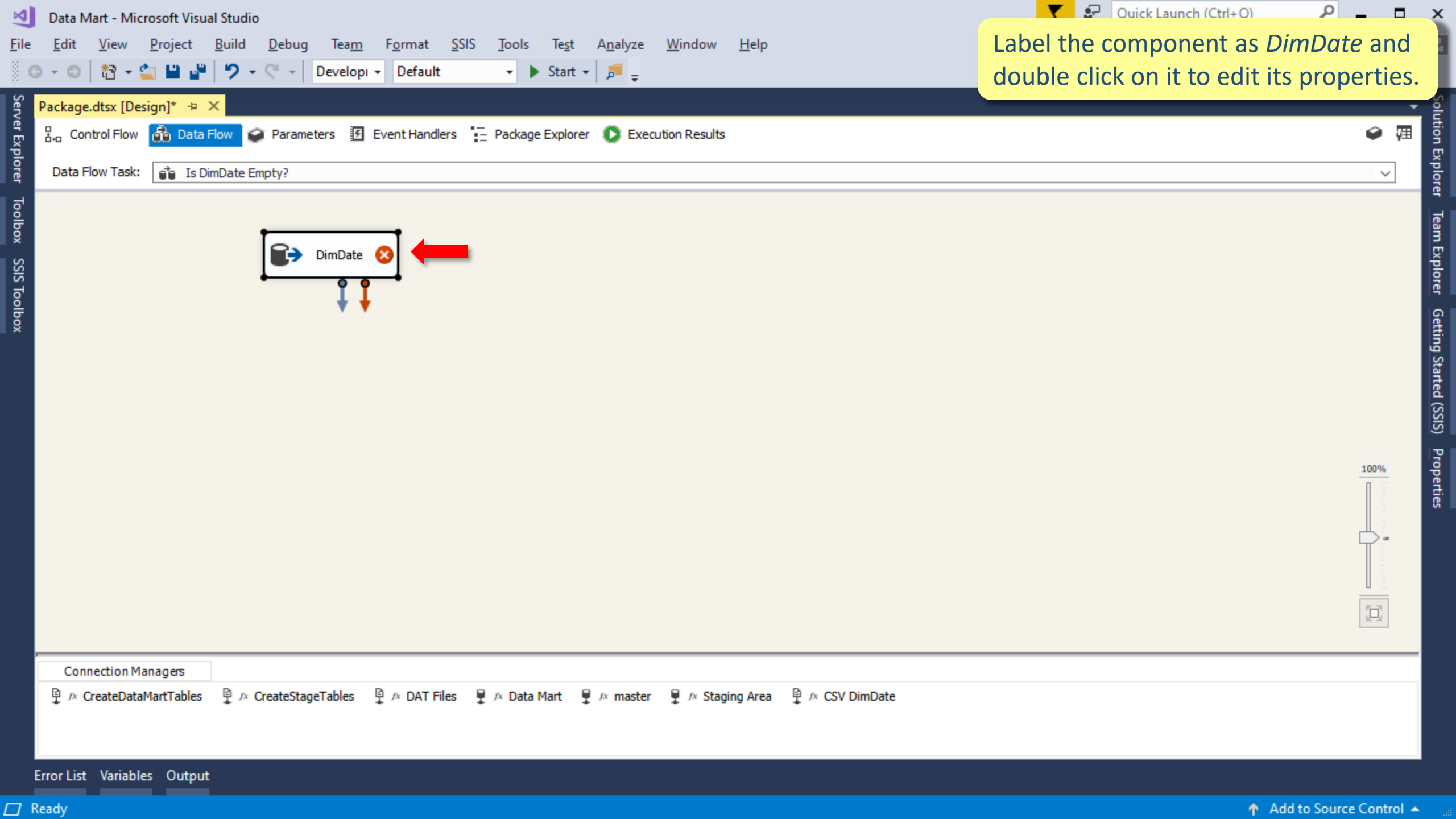

SQLQuery2.sql - LYNX.ARPAD_DataMart (LYNX\Paulo (65))* - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query
centro
ARPAD_DataMart
Execute
51500 rows/records were actually loaded into the DimDate table, being December 31st of 2040 the last record.
Object Explorer
Connect
localhost (SQL Server 16.0.105(
Databases
System Databases
Database Snapshots
AdventureWorksDW20
ARMDD_DataMart
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.DimCard
dbo.DimDate
dbo.DimItem
dbo.DimPayme
dbo.DimStore
dbo.DimTime
dbo.FactSales
Dropped Ledge
Views
External Resources
Synonyms
Programmability
Query Store
Service Broker
Storage
Security
ARMDD_StagingArea
SQLQuery2.sql - LY...t (LYNX\Paulo (65))*
/****** Script for SelectTopNRows command from SSMS ******/
SELECT *
FROM [ARMDD_StagingArea].[dbo].[DimDate]
100 %
Results
Messages
DateKey FullDate Year Semester Quarter Month MonthName Week DayNumberOfYear DayNumberOfMonth DayNumberOfWeek DayOfWeek Weekend
5... 51491 2040-12-22 00:00:00.000 2040 2 4 12 December 51 357 22 7 Saturday Yes
5... 51492 2040-12-23 00:00:00.000 2040 2 4 12 December 52 358 23 1 Sunday Yes
5... 51493 2040-12-24 00:00:00.000 2040 2 4 12 December 52 359 24 2 Monday No
5... 51494 2040-12-25 00:00:00.000 2040 2 4 12 December 52 360 25 3 Tuesday No
5... 51495 2040-12-26 00:00:00.000 2040 2 4 12 December 52 361 26 4 Wednesday No
5... 51496 2040-12-27 00:00:00.000 2040 2 4 12 December 52 362 27 5 Thursday No
5... 51497 2040-12-28 00:00:00.000 2040 2 4 12 December 52 363 28 6 Friday No
5... 51498 2040-12-29 00:00:00.000 2040 2 4 12 December 52 364 29 7 Saturday Yes
5... 51499 2040-12-30 00:00:00.000 2040 2 4 12 December 53 365 30 1 Sunday Yes
5... 51500 2040-12-31 00:00:00.000 2040 2 4 12 December 53 366 31 2 Monday No
Query executed successfully.
LYNX (15.0 RTM) LYNX\Paulo (65) ARPAD_DataMart 00:00:01 51 500 rows
Ready
Ln 2 Col 9 Ch 9 INS

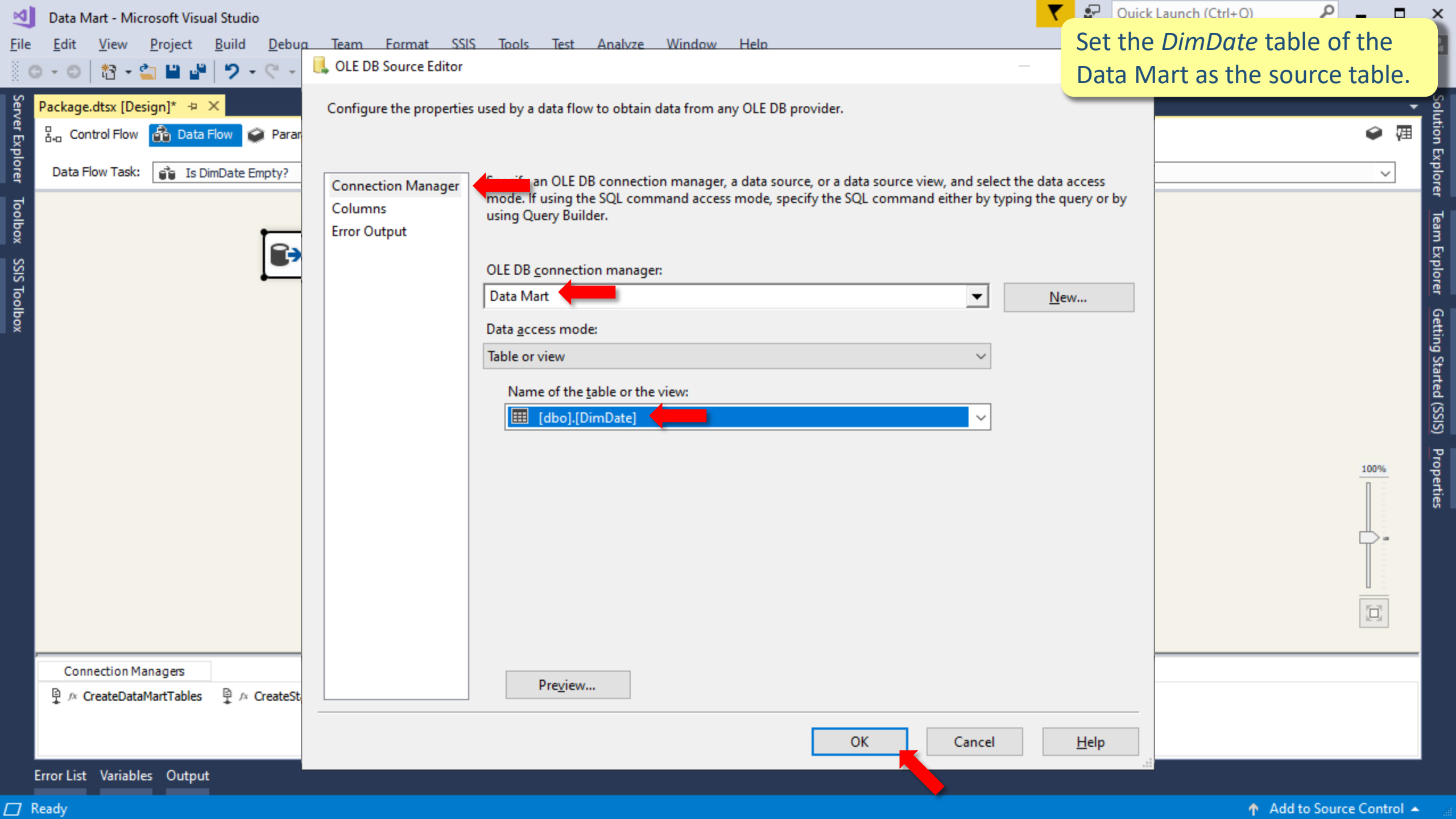

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Start
SSIS Toolbox
Search SSIS Toolbox
Favorites
Data Flow Task
Execute SQL Task
Common
Analysis Services Processing Task
Bulk Insert Task
Data Profiling Task
Execute Package Task
Execute Process Task
Expression Task
File System Task
FTP Task
Hadoop File System Task
Hadoop Hive Task
Hadoop Pig Task
Script Task
Send Mail Task
Web Service Task
XML Task
Azure
Data Flow Task
Moves data between sources and destinations while transforming and cleaning. Data can be moved between tables and files while efficently processing the data in memory with transformations. This is an...
Find Samples
Event Handlers
Package Explorer
Execution Results
Execute SA Script
Execute DM Script
h DAT File
Load DAT File into Table
Load Temporal Dimensions
Load DimDate
100%
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
However, if you run the component or the package again, the Load DimDate component loads 51500 records more into the DimDate. To prevent this, drag a Data Flow Task from the SSIS Toolbox onto the Control Flow Area, immediately above the Load DimDate component.

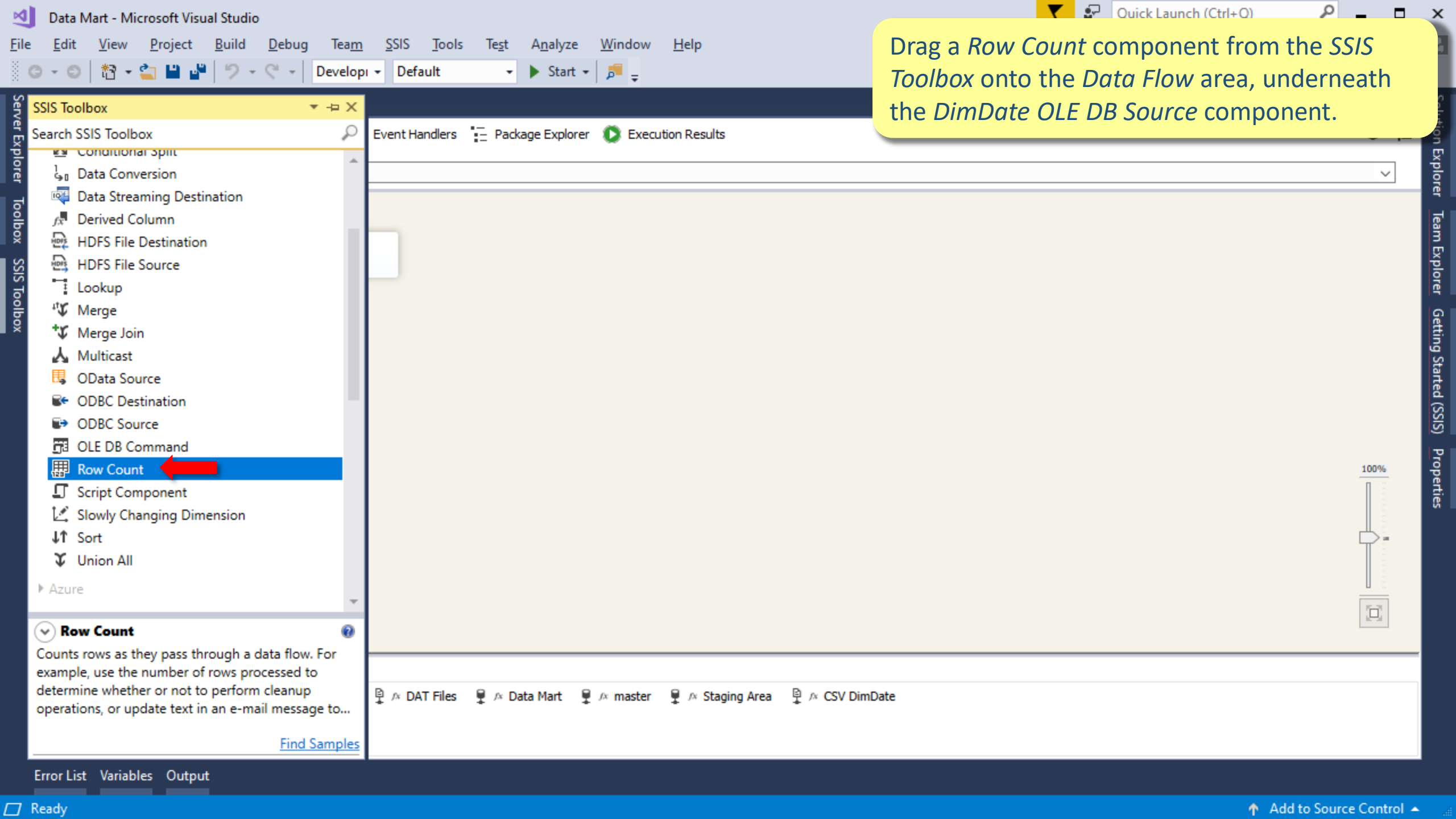

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Label the component as *Is DimDate Empty?* and connect it to the next component.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Execution Results
Execute SA Script
Execute DM Script
Foreach DAT File
Load DAT File into Table
Load Temporal Dimensions
Is DimDate Empty?
Load DimDate
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control

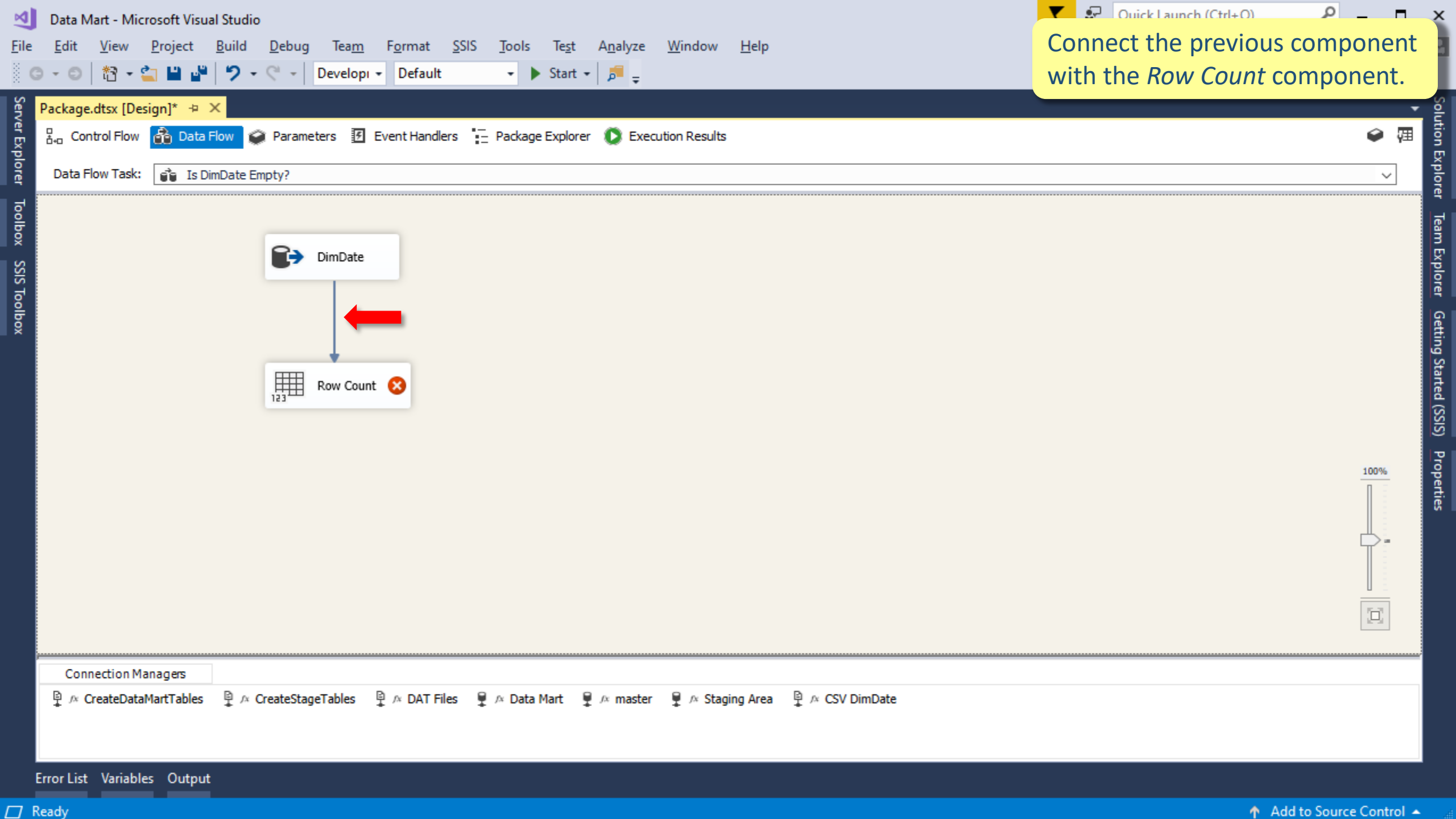

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Change to *Data Flow* view of the *Is DimDate Empty?* component.
Package.dtsx [Design]*
Control Flow
Data Flow
Event Handlers
Package Explorer
Execution Results
Data Flow Task:
Is DimDate Empty?
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties

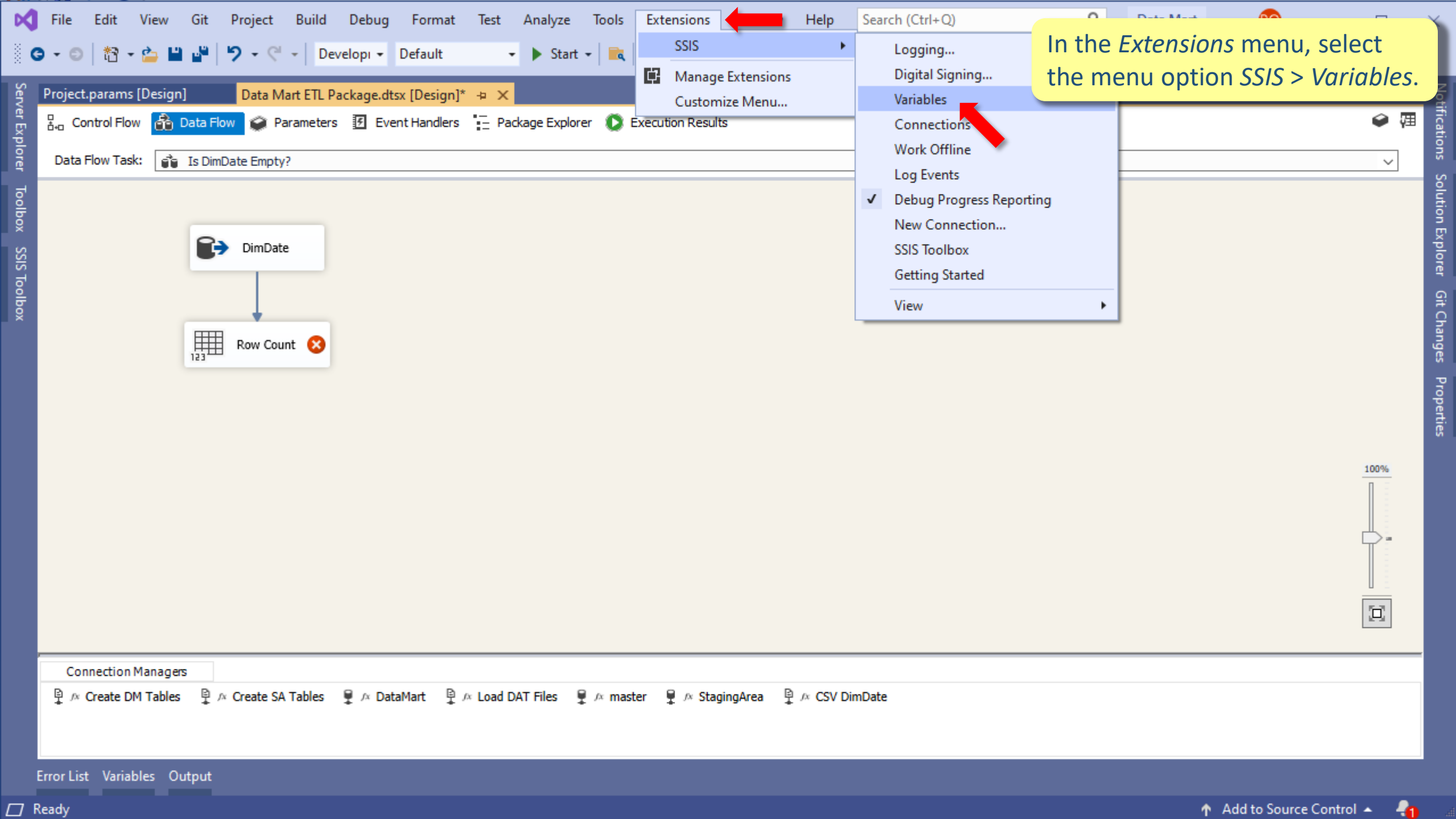

Data Mart - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Drag an *OLE DB Source* from the *SSIS Toolbox* onto the *Control Flow* area.
SSIS Toolbox
Search SSIS Toolbox
Sort
Union All
Azure
Other Transforms
Other Sources
ADO NET Source
CDC Source
Excel Source
Flat File Source
OLE DB Source
Raw File Source
XML Source
Other Destinations
ADO NET Destination
Data Mining Model Training
DataReader Destination
Dimension Processing
Excel Destination
Flat File Destination
OLE DB Source
Extracts data from an OLE DB-compliant relational database. Extract from a database table or view, or use a SQL command. For example, extract data from tables in Microsoft Office Access or SQL Server...
Find Samples
Event Handlers
Package Explorer
Execution Results
100%
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties

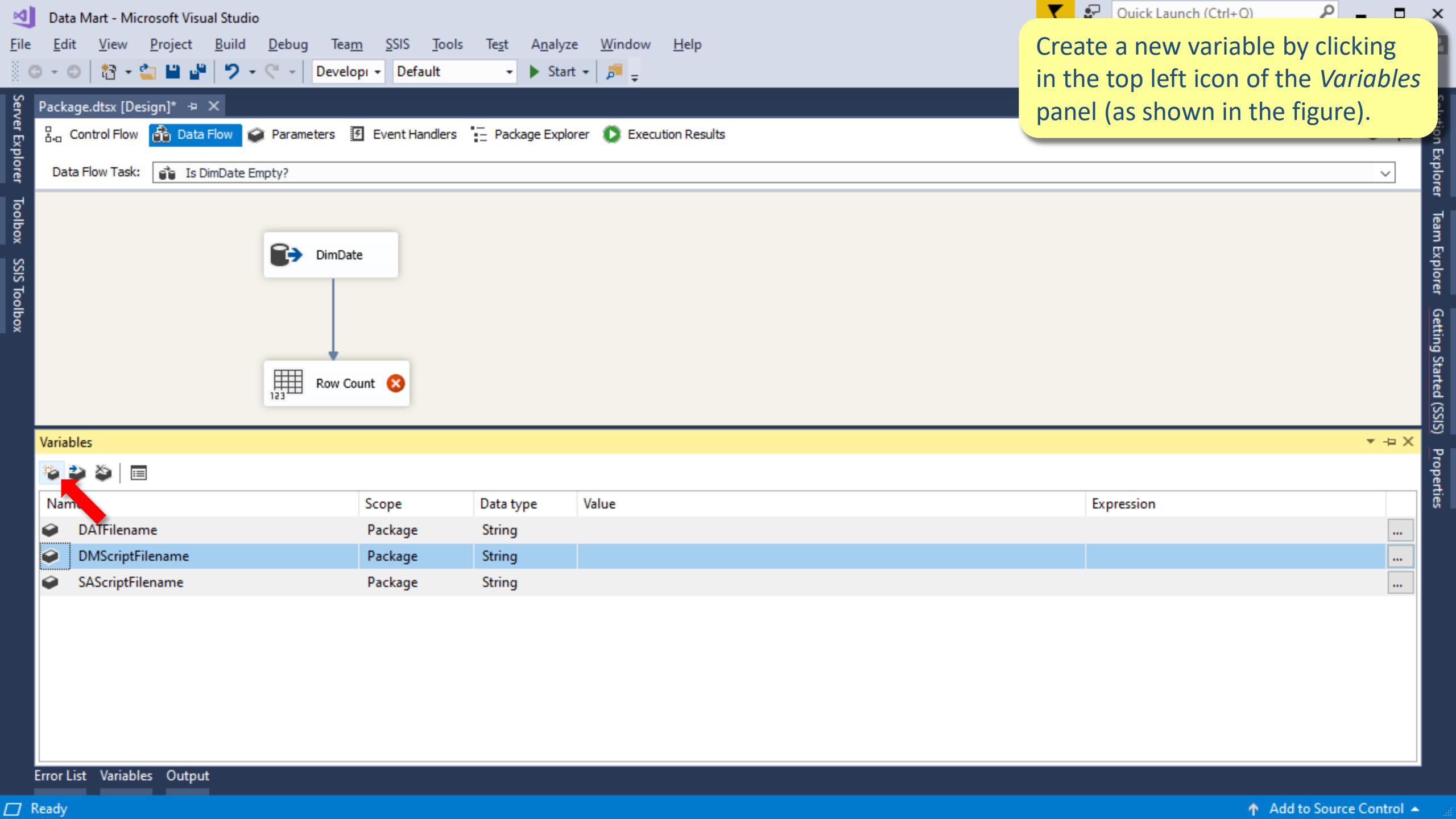

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Label the component as *DimDate* and double click on it to edit its properties.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Execution Results
Data Flow Task:
Is DimDate Empty?
DimDate
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control

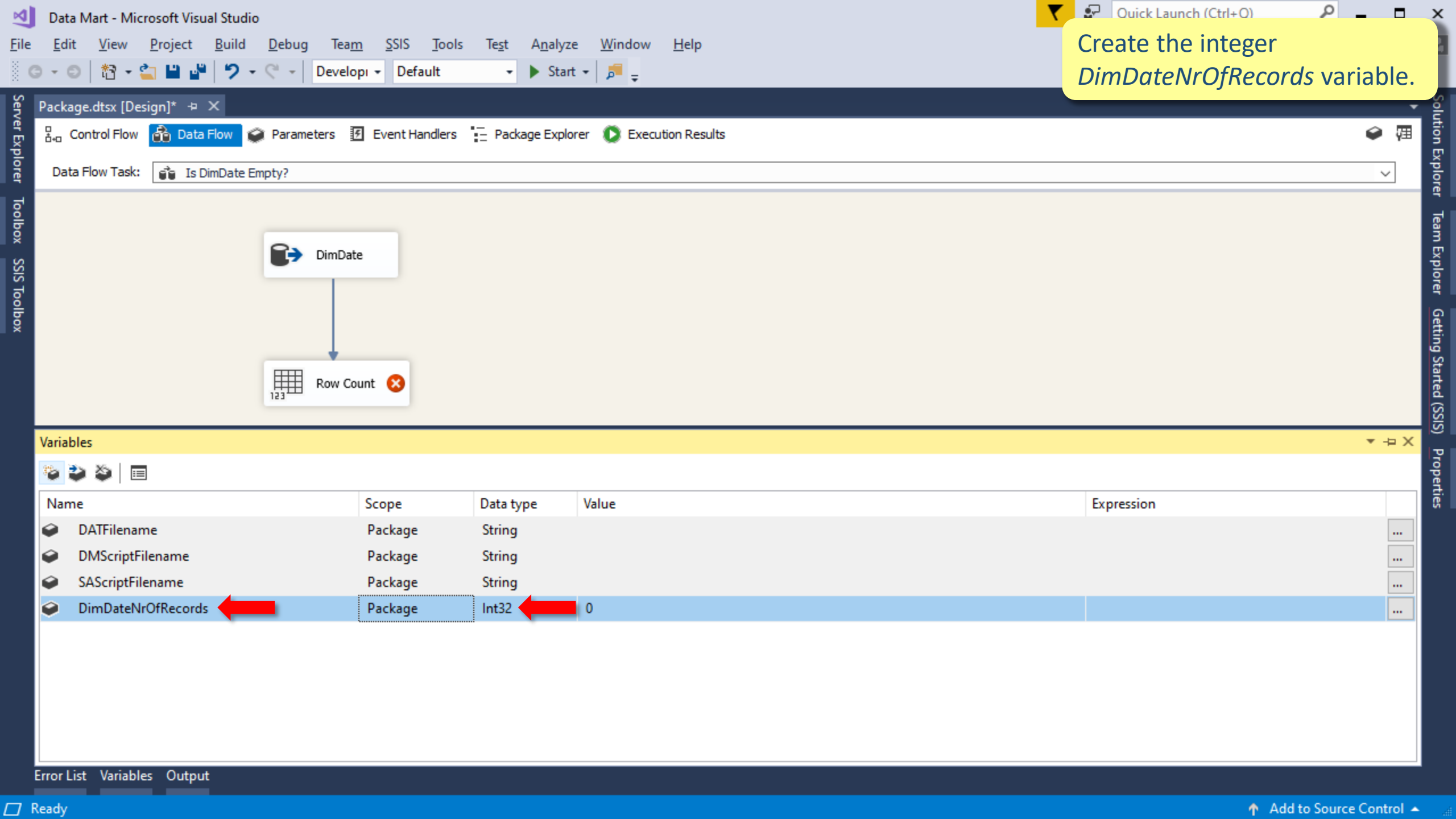

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Set the *DimDate* table of the Data Mart as the source table.
OLE DB Source Editor
Configure the properties used by a data flow to obtain data from any OLE DB provider.
Connection Manager
Columns
Error Output
Specify an OLE DB connection manager, a data source, or a data source view, and select the data access mode. If using the SQL command access mode, specify the SQL command either by typing the query or by using Query Builder.
OLE DB connection manager:
Data Mart
New...
Data access mode:
Table or view
Name of the table or the view:
[dbo].[DimDate]
Preview...
OK
Cancel
Help
Package.dtsx [Design]*
Control Flow
Data Flow
Data Flow Task:
Is DimDate Empty?
Connection Managers
CreateDataMartTables
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties
100%

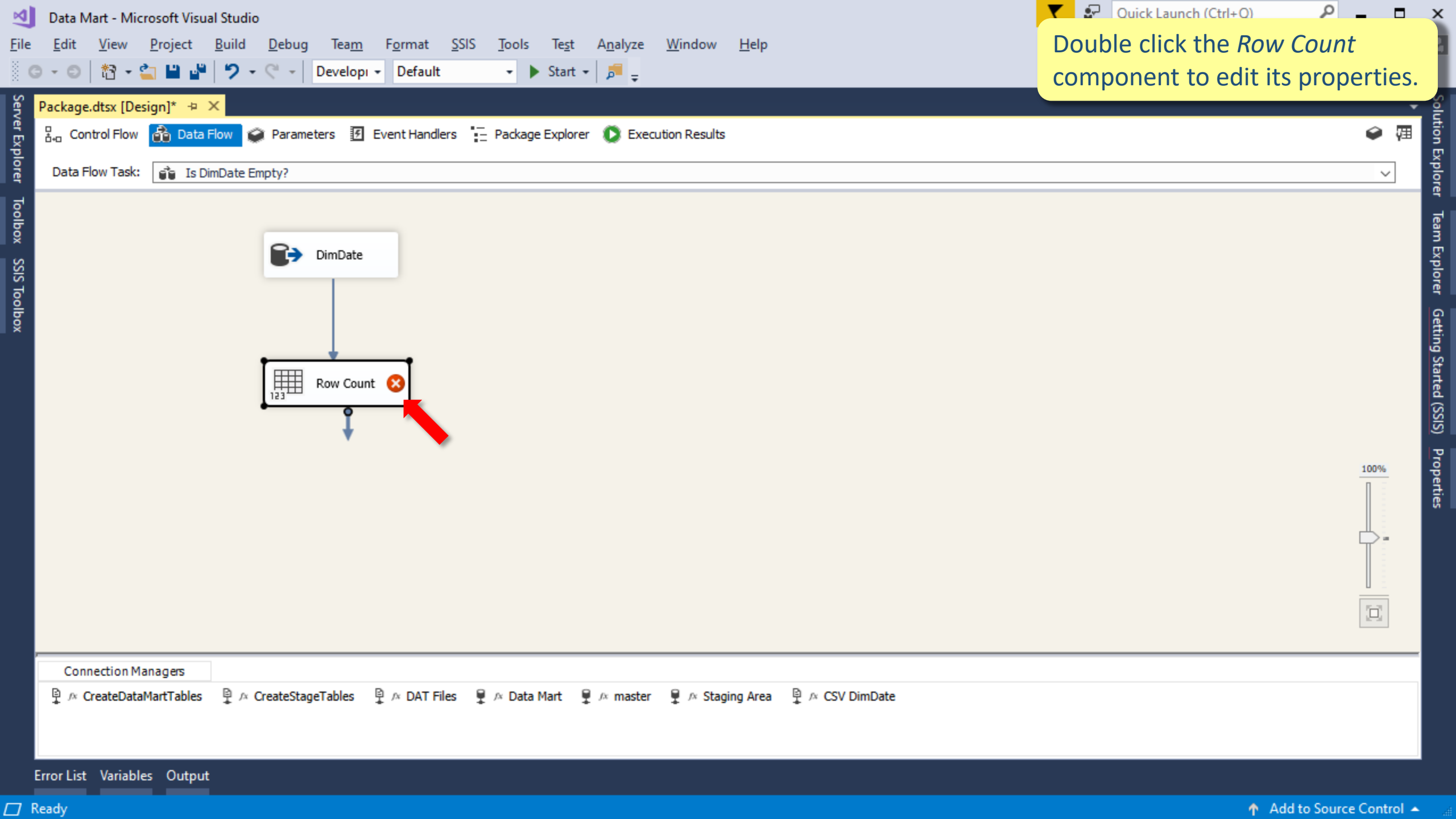

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Start
SSIS Toolbox
Search SSIS Toolbox
Data Conversion
Data Streaming Destination
Derived Column
HDFS File Destination
HDFS File Source
Lookup
Merge
Merge Join
Multicast
OData Source
ODBC Destination
ODBC Source
OLE DB Command
Row Count
Script Component
Slowly Changing Dimension
Sort
Union All
Azure
Row Count
Counts rows as they pass through a data flow. For example, use the number of rows processed to determine whether or not to perform cleanup operations, or update text in an e-mail message to...
Find Samples
Event Handlers
Package Explorer
Execution Results
100%
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
Drag a Row Count component from the SSIS Toolbox onto the Data Flow area, underneath the DimDate OLE DB Source component.


Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Connect the previous component with the *Row Count* component.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Execution Results
Data Flow Task:
Is DimDate Empty?
DimDate
Row Count
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control

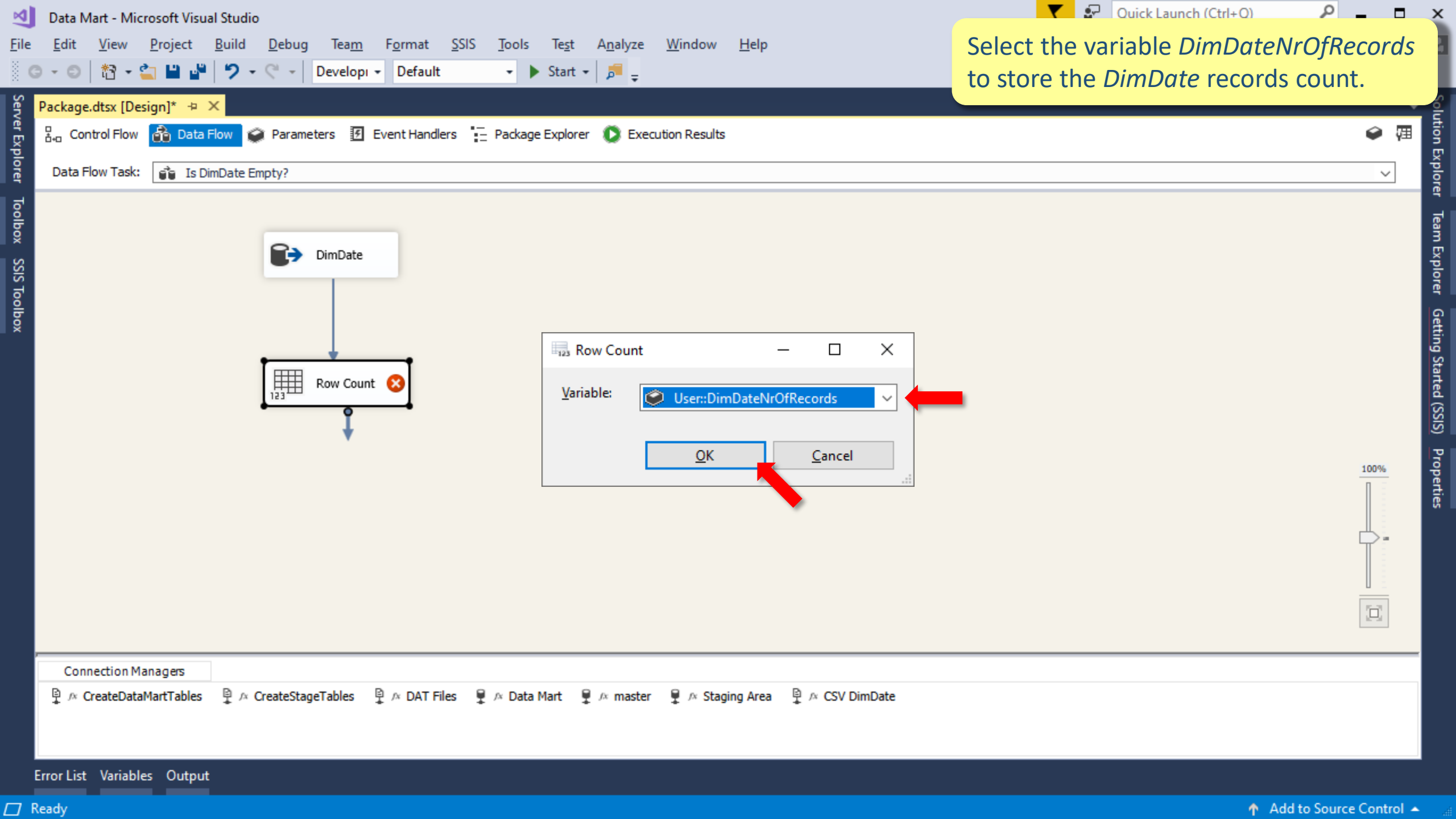

File Edit View Git Project Build Debug Format Test Analyze Tools Extensions Help
Search (Ctrl+Q)
SSIS
Manage Extensions
Customize Menu...
Logging...
Digital Signing...
Variables
Connections
Work Offline
Log Events
Debug Progress Reporting
New Connection...
SSIS Toolbox
Getting Started
View
In the *Extensions* menu, select the menu option *SSIS > Variables*.
Project.params [Design]
Data Mart ETL Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Execution Results
Data Flow Task:
Is DimDate Empty?
DimDate
Row Count
100%
Connection Managers
Create DM Tables
Create SA Tables
DataMart
Load DAT Files
master
StagingArea
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control

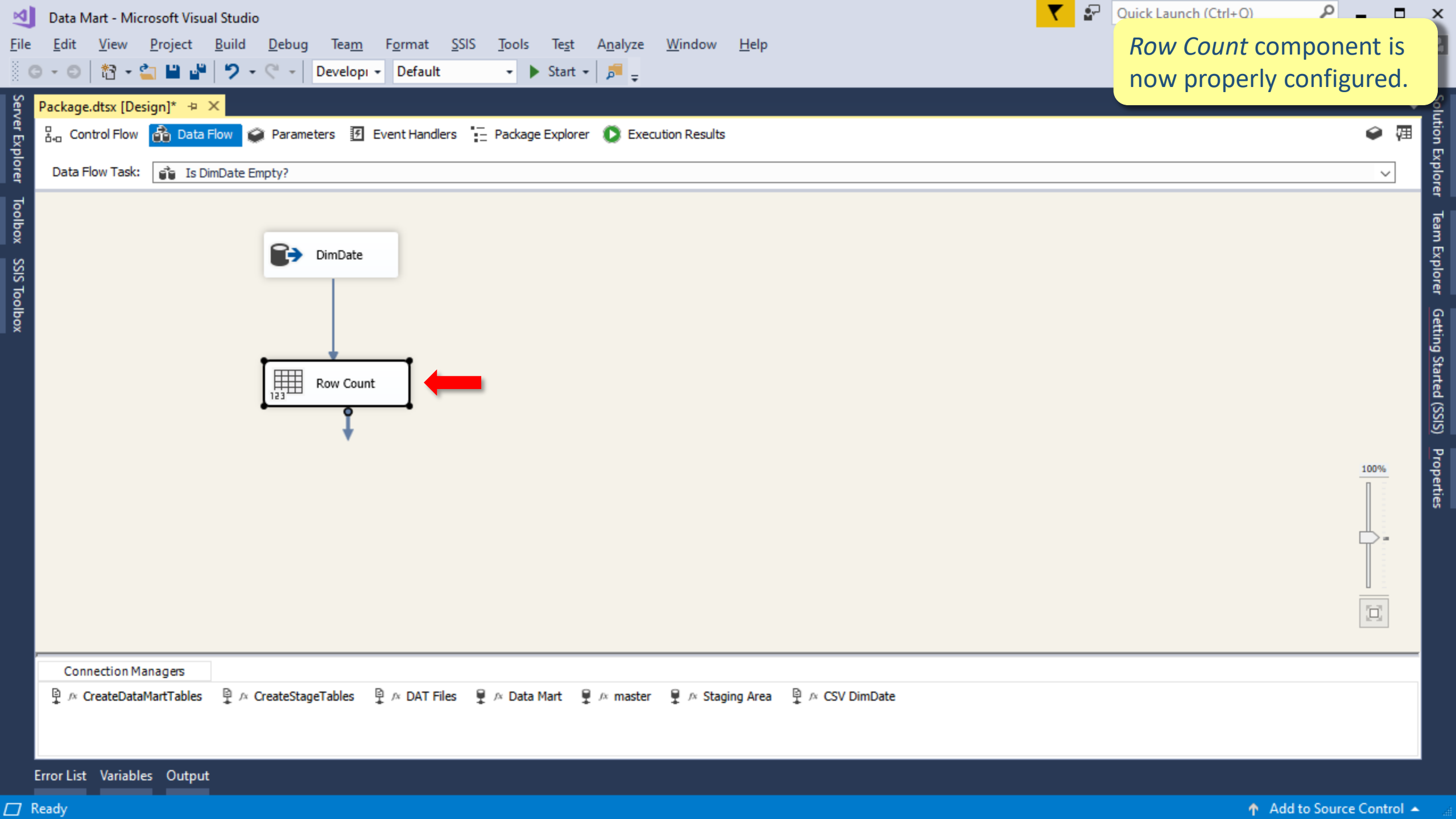

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Create a new variable by clicking in the top left icon of the *Variables* panel (as shown in the figure).
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Execution Results
Data Flow Task:
Is DimDate Empty?
DimDate
Row Count
Variables
Name
Scope
Data type
Value
Expression
DATFilename
Package
String
DMScriptFilename
Package
String
SAScriptFilename
Package
String
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties

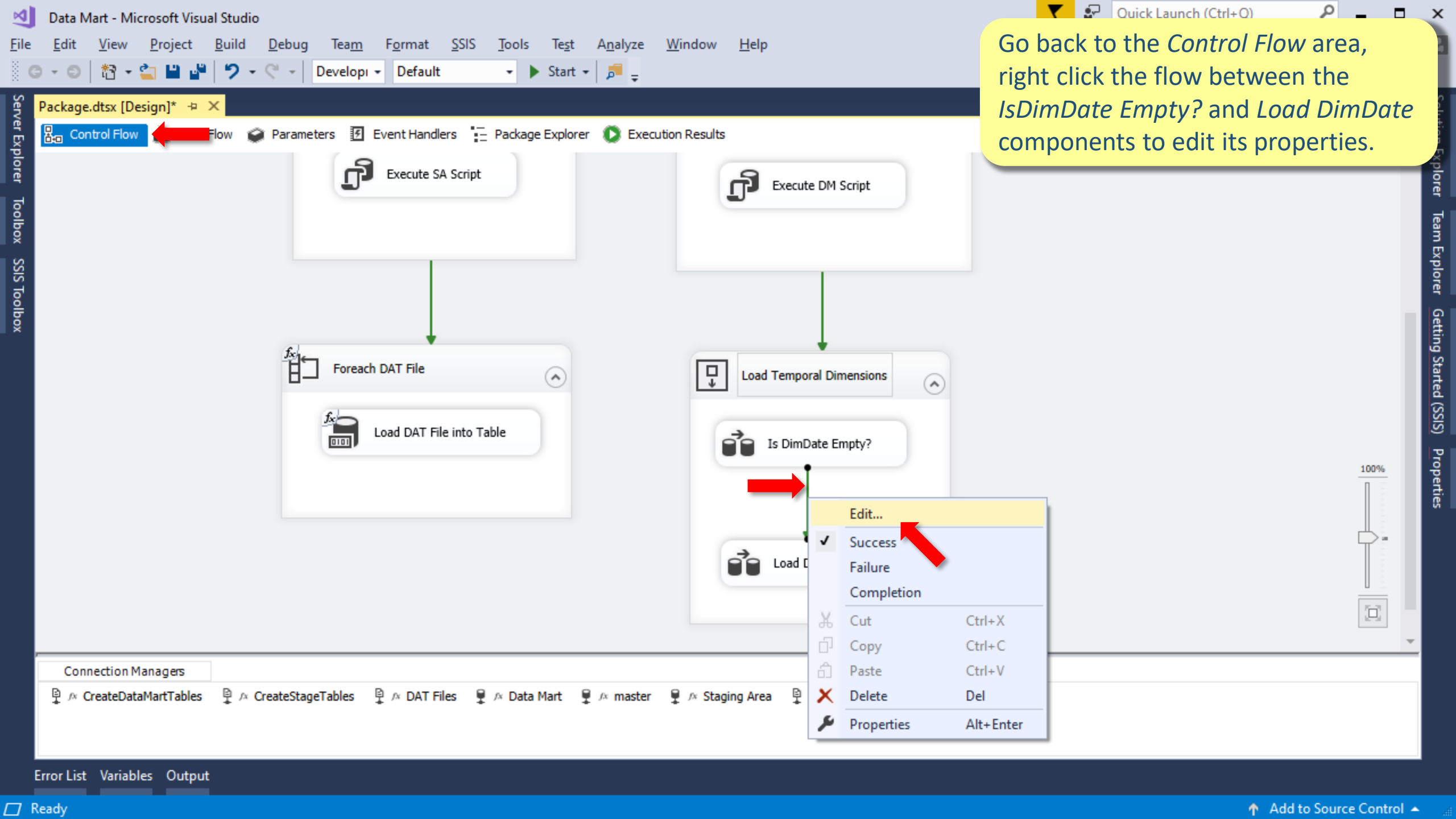

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Create the integer *DimDateNrOfRecords* variable.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Execution Results
Data Flow Task:
Is DimDate Empty?
DimDate
Row Count
Variables
Name
Scope
Data type
Value
Expression
DATFilename
Package
String
DMScriptFilename
Package
String
SAScriptFilename
Package
String
DimDateNrOfRecords
Package
Int32
0
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties

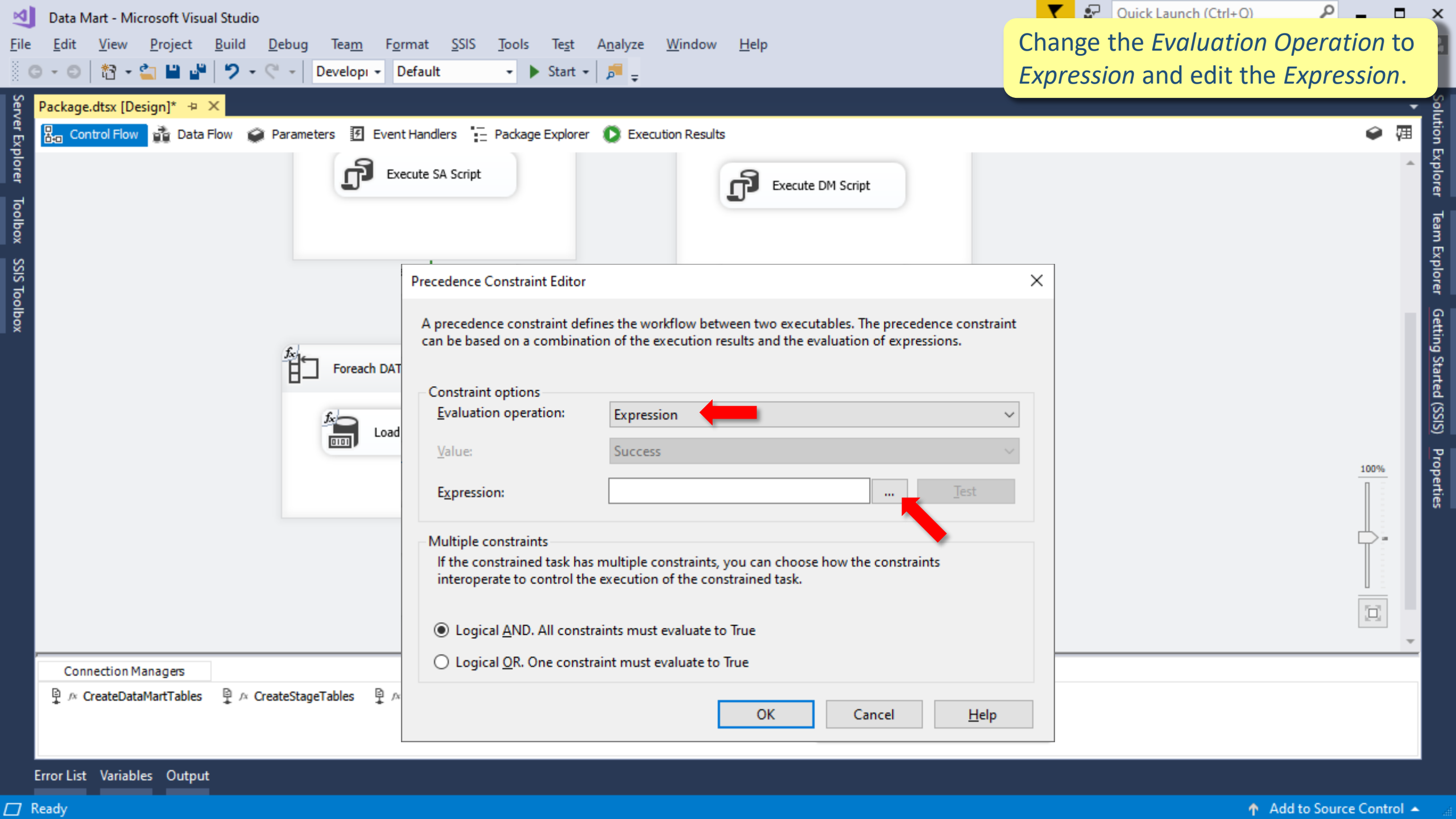

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Double click the *Row Count* component to edit its properties.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Execution Results
Data Flow Task:
Is DimDate Empty?
DimDate
Row Count
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties

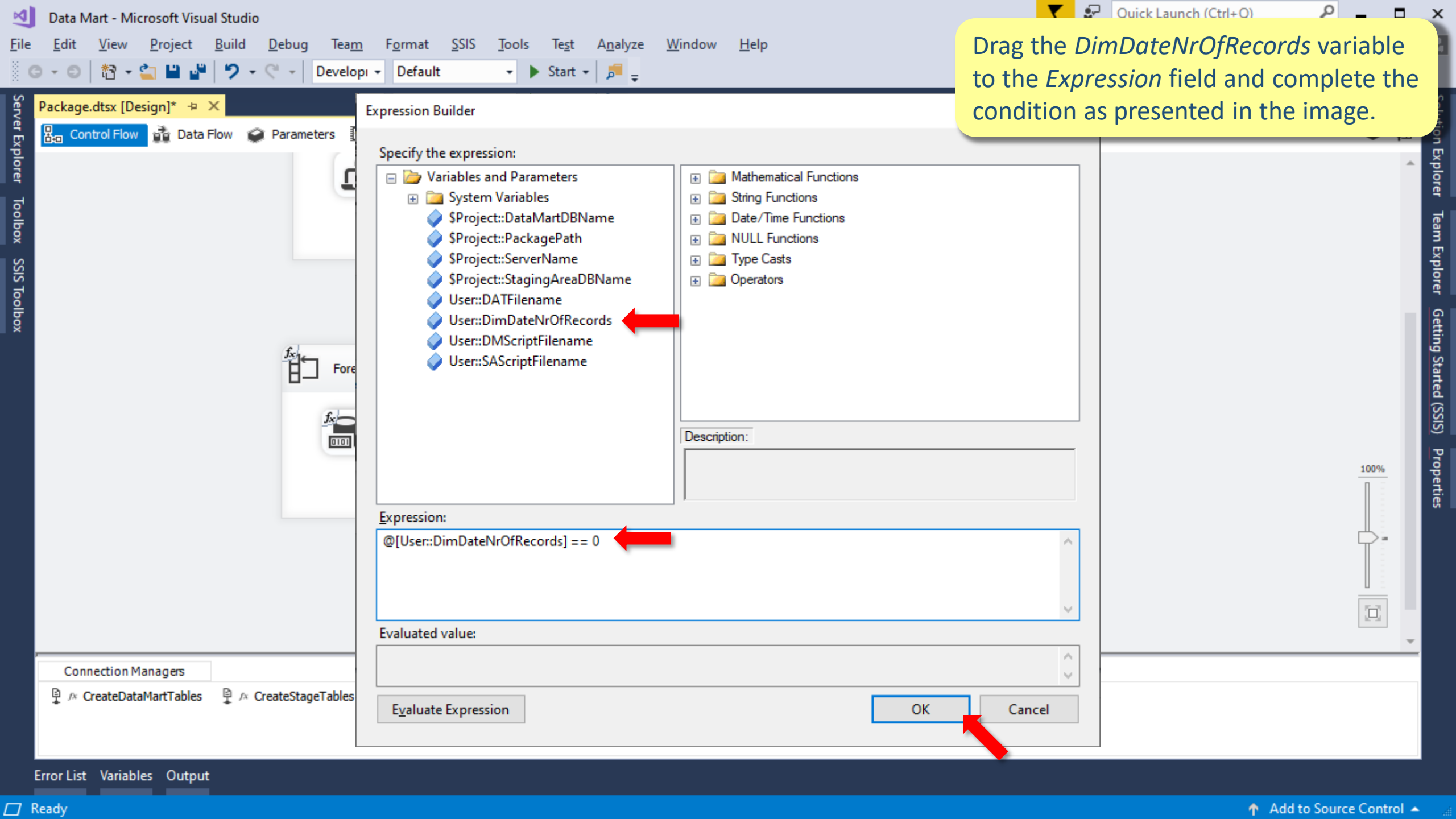
Select the variable *DimDateNrOfRecords* to store the *DimDate* records count.

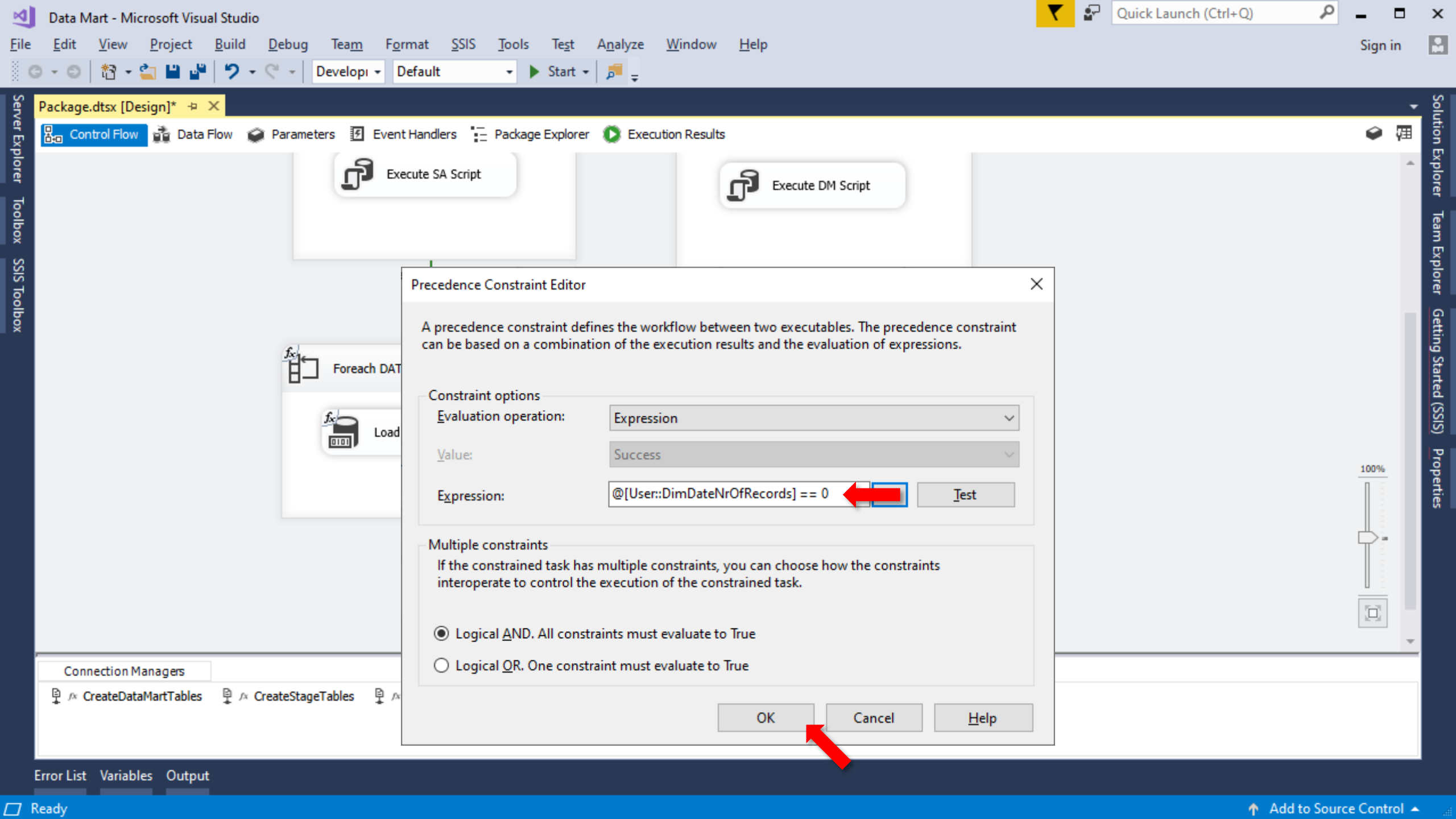


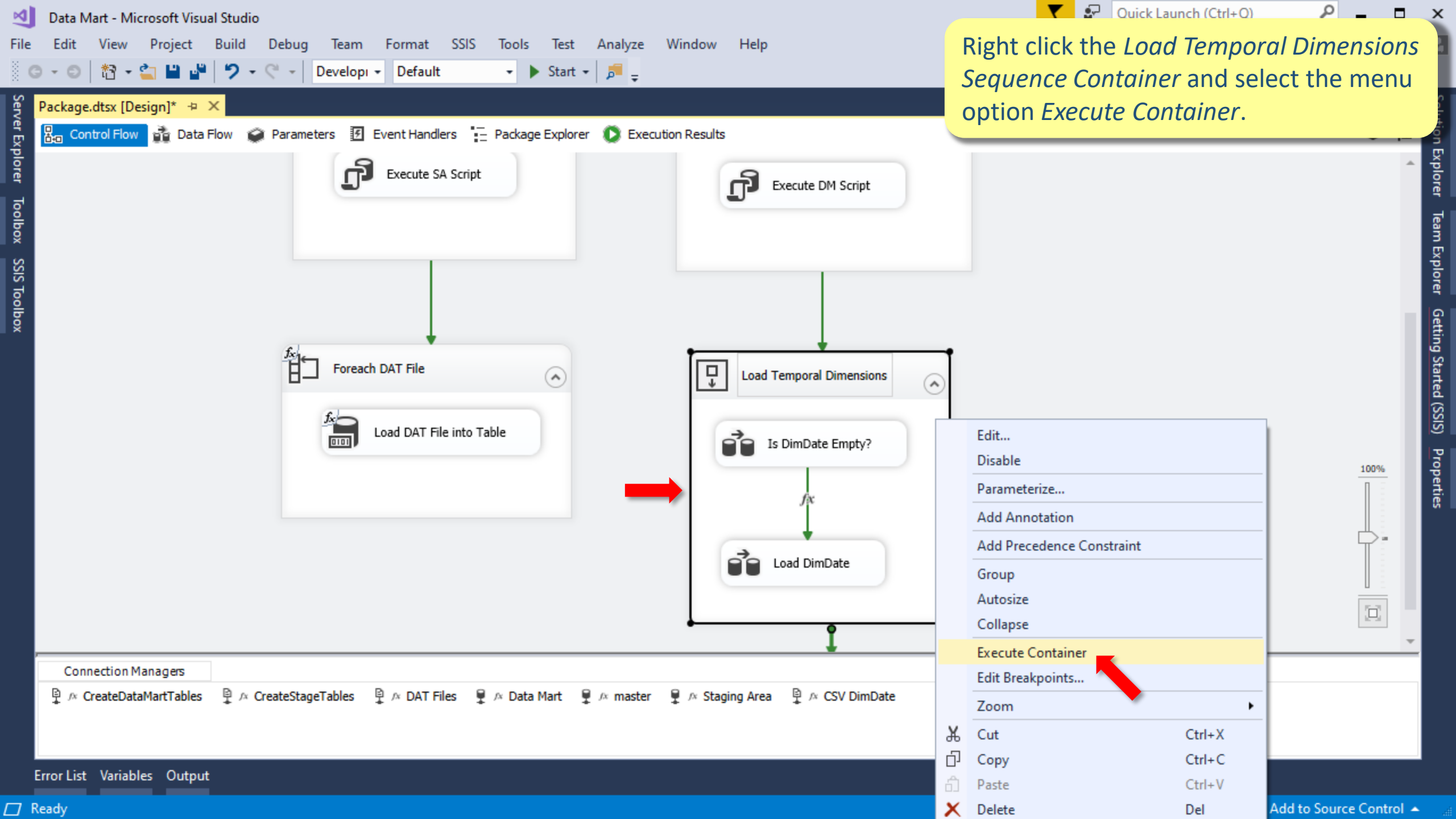

Data Mart - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Start
Row Count component is now properly configured.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Execution Results
Data Flow Task:
Is DimDate Empty?
DimDate
Row Count
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties

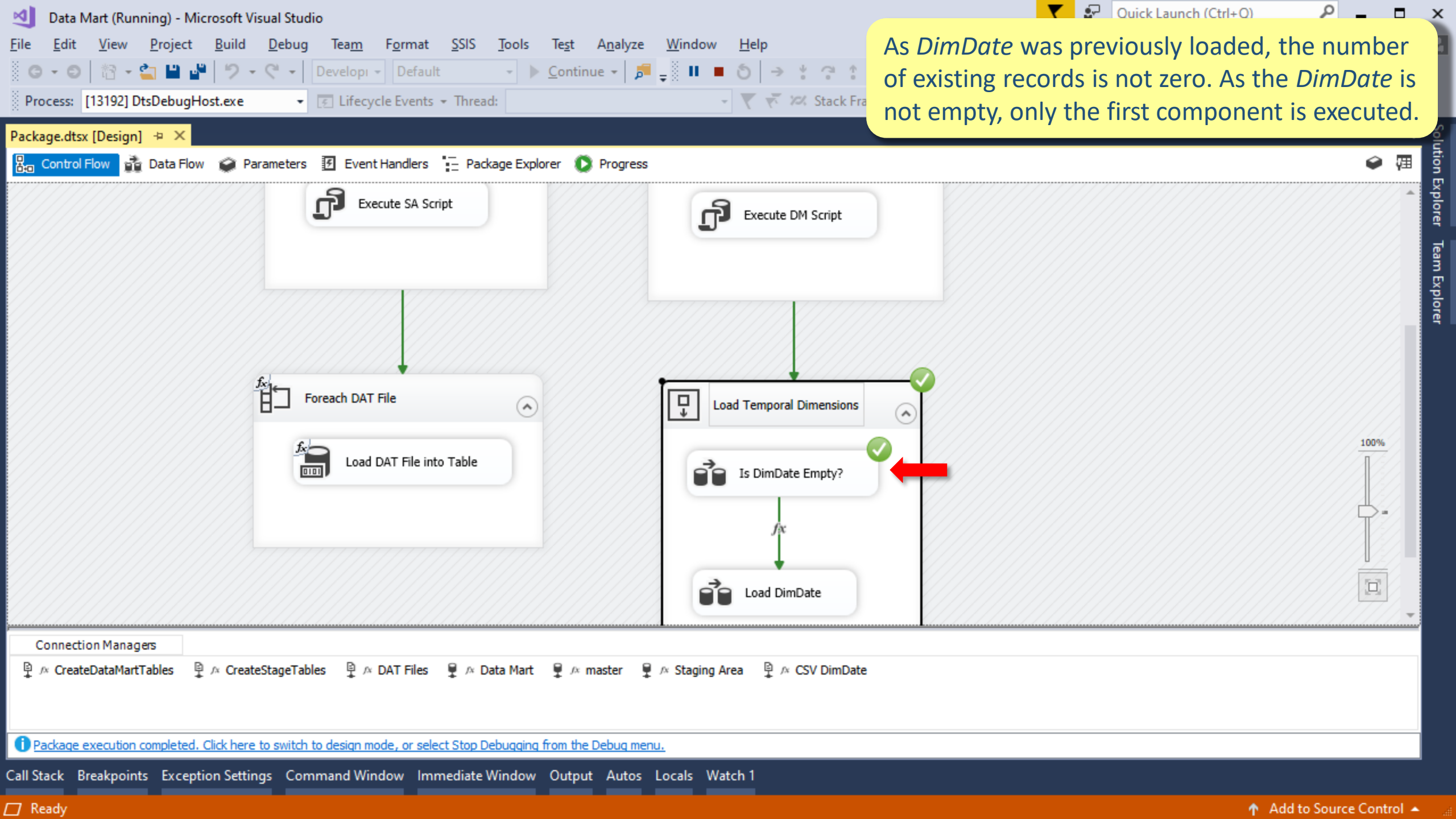

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Package.dtsx [Design]*
Control Flow
Parameters
Event Handlers
Package Explorer
Execution Results
Execute SA Script
Execute DM Script
Foreach DAT File
Load DAT File into Table
Load Temporal Dimensions
Is DimDate Empty?
Edit...
Success
Failure
Completion
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Delete Del
Properties Alt+Enter
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
Error List
Variables
Output
Ready
Add to Source Control
Go back to the Control Flow area, right click the flow between the IsDimDate Empty? and Load DimDate components to edit its properties.


Data Mart - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Start
Change the *Evaluation Operation* to *Expression* and edit the *Expression*.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Execution Results
Execute SA Script
Execute DM Script
Foreach DAT
Load
Precedence Constraint Editor
A precedence constraint defines the workflow between two executables. The precedence constraint can be based on a combination of the execution results and the evaluation of expressions.
Constraint options
Evaluation operation:
Expression
Value:
Success
Expression:
...
Test
Multiple constraints
If the constrained task has multiple constraints, you can choose how the constraints interoperate to control the execution of the constrained task.
Logical AND. All constraints must evaluate to True
Logical OR. One constraint must evaluate to True
OK
Cancel
Help
Connection Managers
CreateDataMartTables
CreateStageTables
Error List
Variables
Output
Ready
Add to Source Control
Server Explorer
Toolbox
SSIS Toolbox
Solution Explorer
Team Explorer
Getting Started (SSIS)
Properties
100%

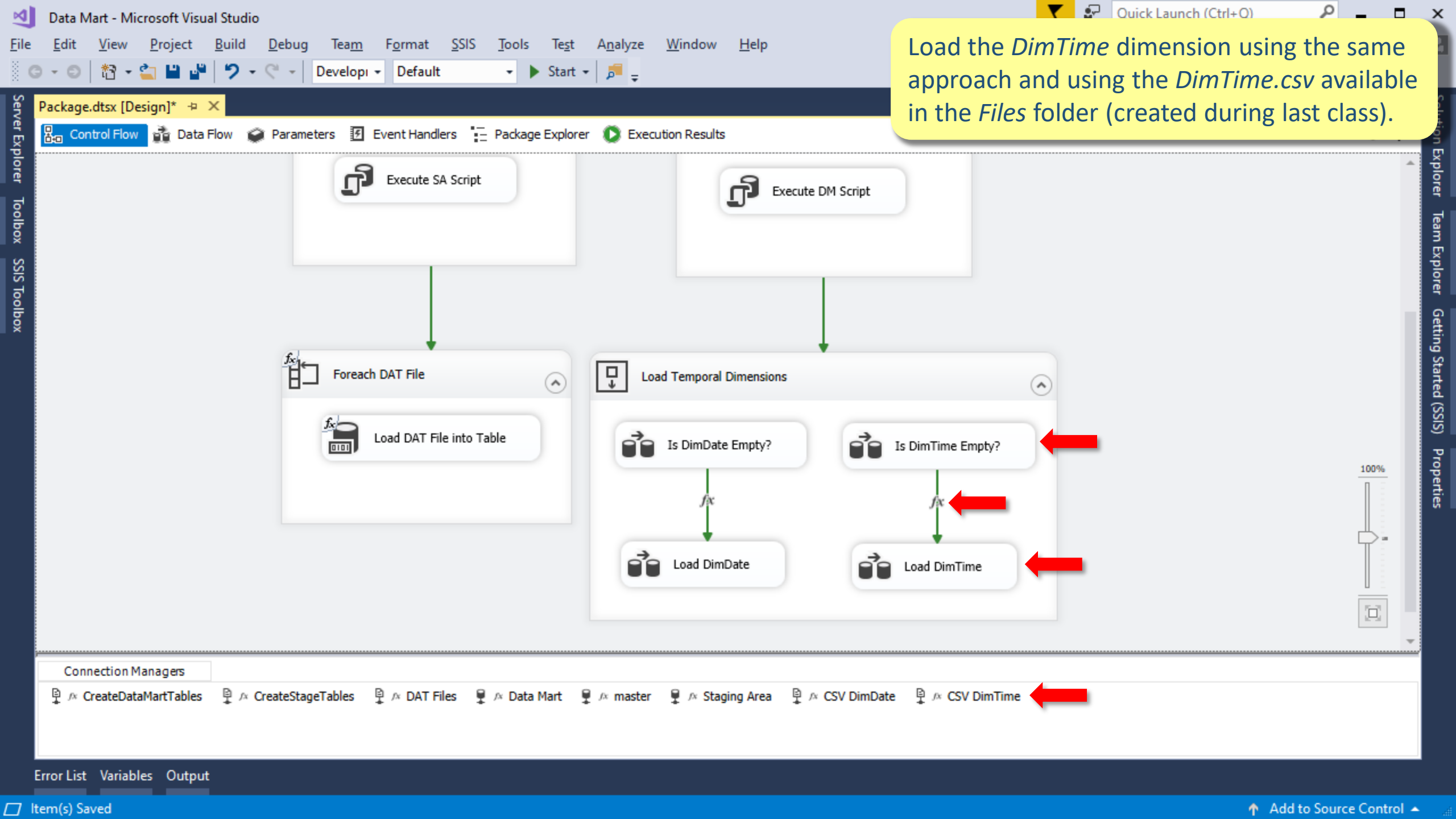

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Expression Builder
Specify the expression:
Variables and Parameters
System Variables
$Project::DataMartDBName
$Project::PackagePath
$Project::ServerName
$Project::StagingAreaDBName
User::DATFilename
User::DimDateNrOfRecords
User::DMScriptFilename
User::SAScriptFilename
Mathematical Functions
String Functions
Date/Time Functions
NULL Functions
Type Casts
Operators
Description:
Expression:
@[User::DimDateNrOfRecords] == 0
Evaluated value:
Evaluate Expression
OK
Cancel
Connection Managers
CreateDataMartTables
CreateStageTables
Error List
Variables
Output
Ready
Add to Source Control
Drag the DimDateNrOfRecords variable to the Expression field and complete the condition as presented in the image.

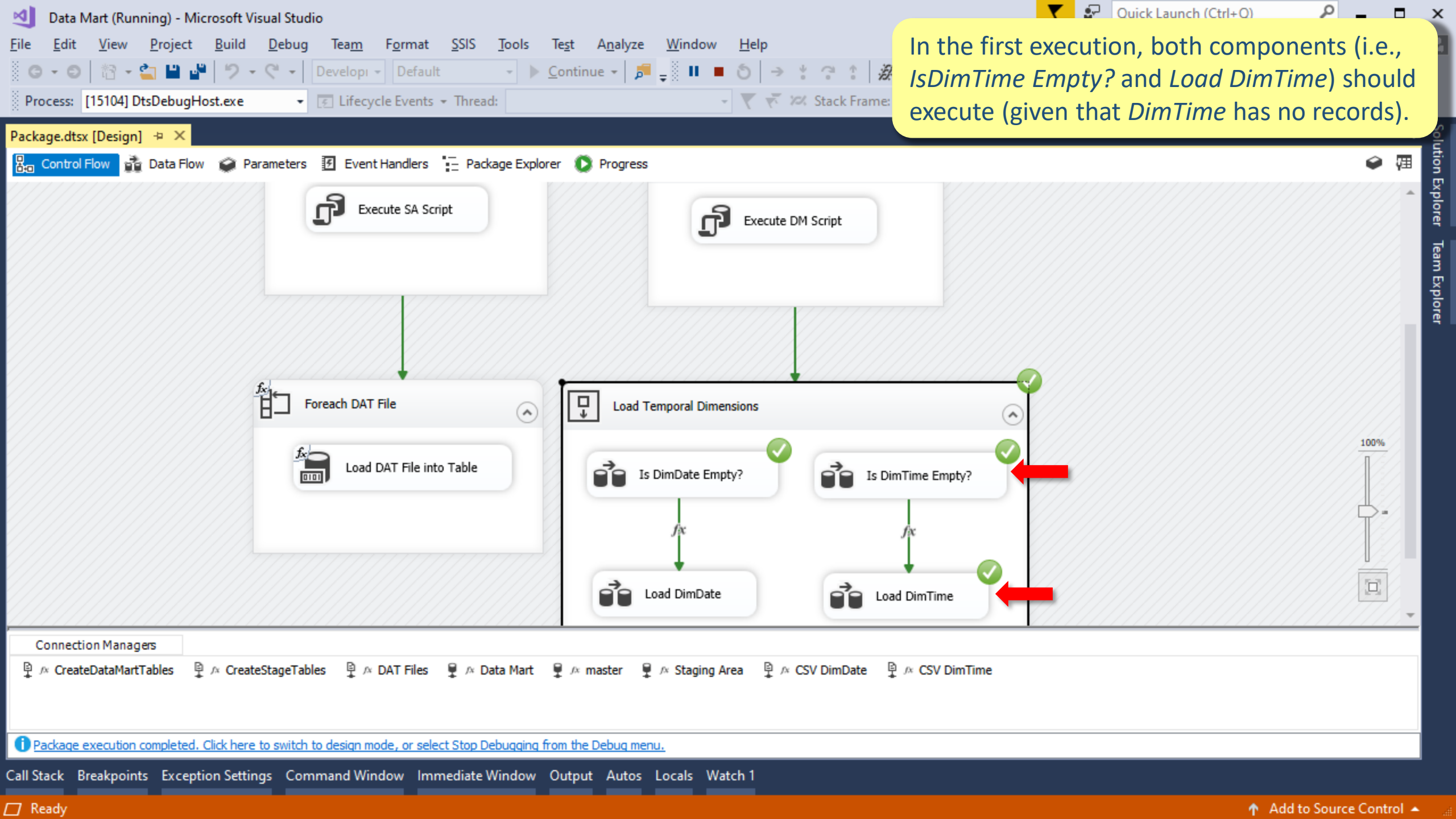

Data Mart - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Sign in
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Execution Results
Execute SA Script
Execute DM Script
Foreach DAT
Load
Precedence Constraint Editor
A precedence constraint defines the workflow between two executables. The precedence constraint can be based on a combination of the execution results and the evaluation of expressions.
Constraint options
Evaluation operation:
Expression
Value:
Success
Expression:
@[User::DimDateNrOfRecords] == 0
Test
Multiple constraints
If the constrained task has multiple constraints, you can choose how the constraints interoperate to control the execution of the constrained task.
Logical AND. All constraints must evaluate to True
Logical OR. One constraint must evaluate to True
OK
Cancel
Help
Connection Managers
CreateDataMartTables
CreateStageTables
Error List
Variables
Output
Ready
Add to Source Control

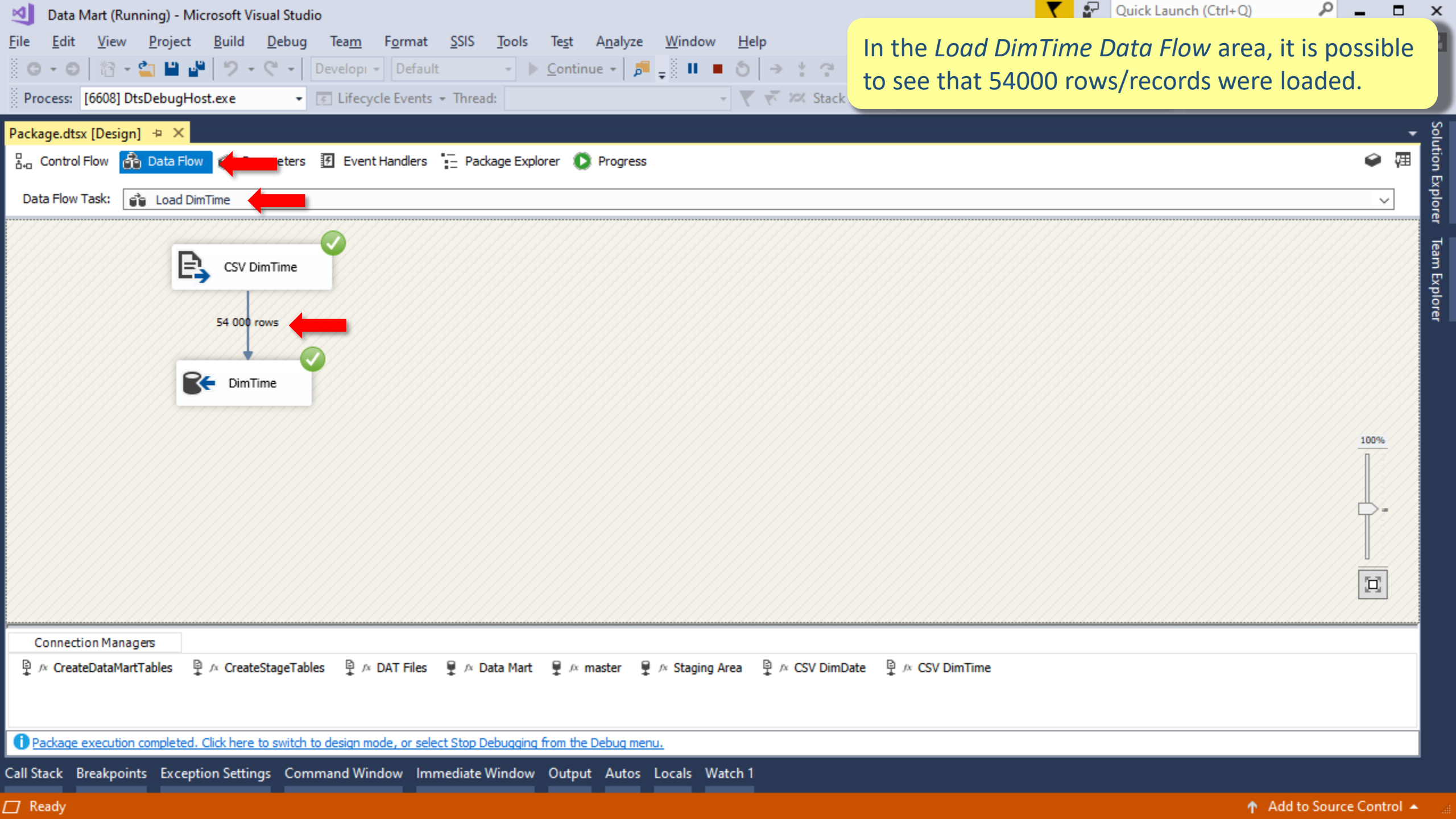

Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Right click the *Load Temporal Dimensions Sequence Container* and select the menu option *Execute Container*.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Execution Results
Execute SA Script
Execute DM Script
Foreach DAT File
Load DAT File into Table
Load Temporal Dimensions
Is DimDate Empty?
Load DimDate
Edit...
Disable
Parameterize...
Add Annotation
Add Precedence Constraint
Group
Autosize
Collapse
Execute Container
Edit Breakpoints...
Zoom
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Delete Del
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
Error List
Variables
Output
Ready
Add to Source Control

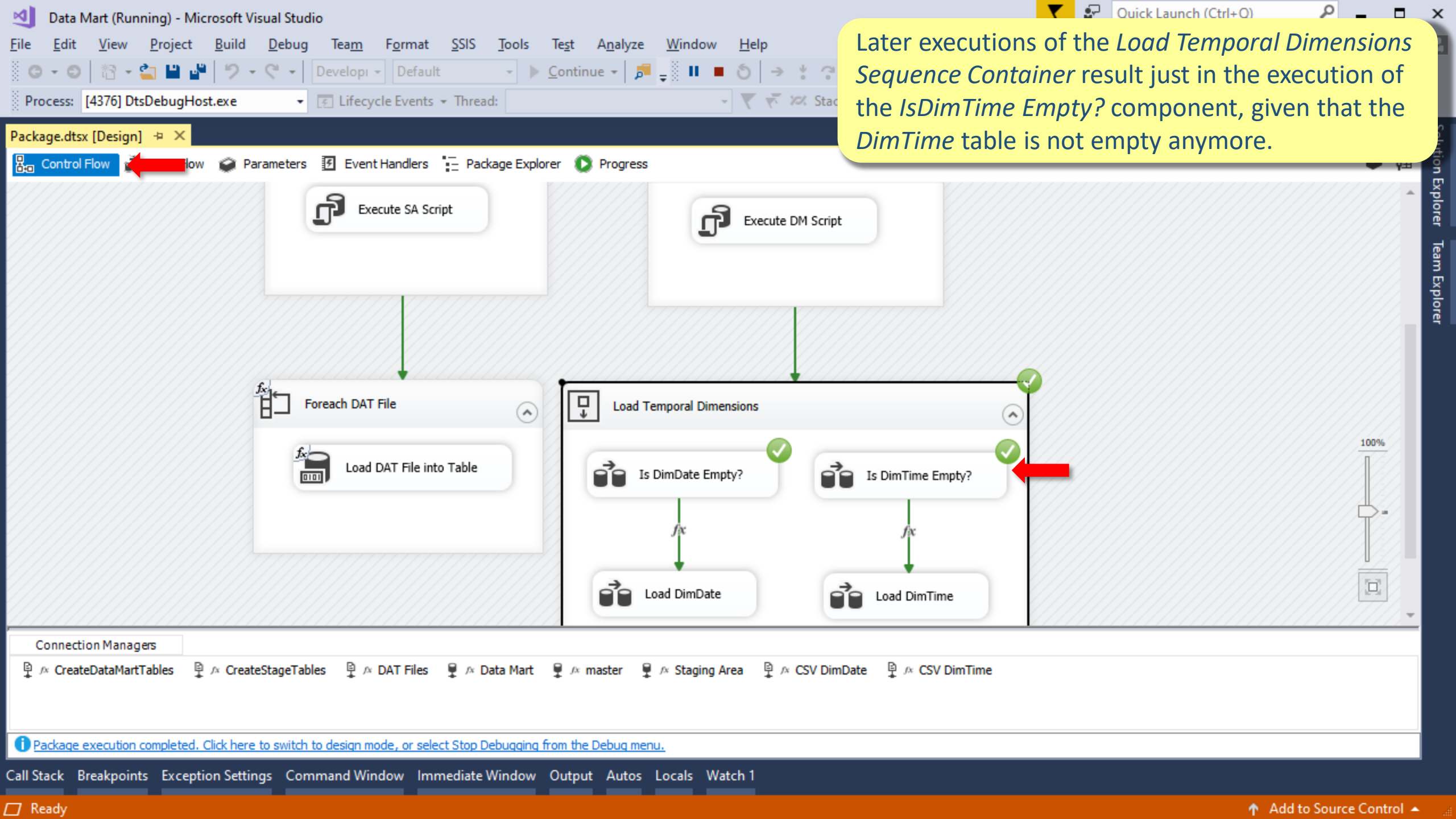


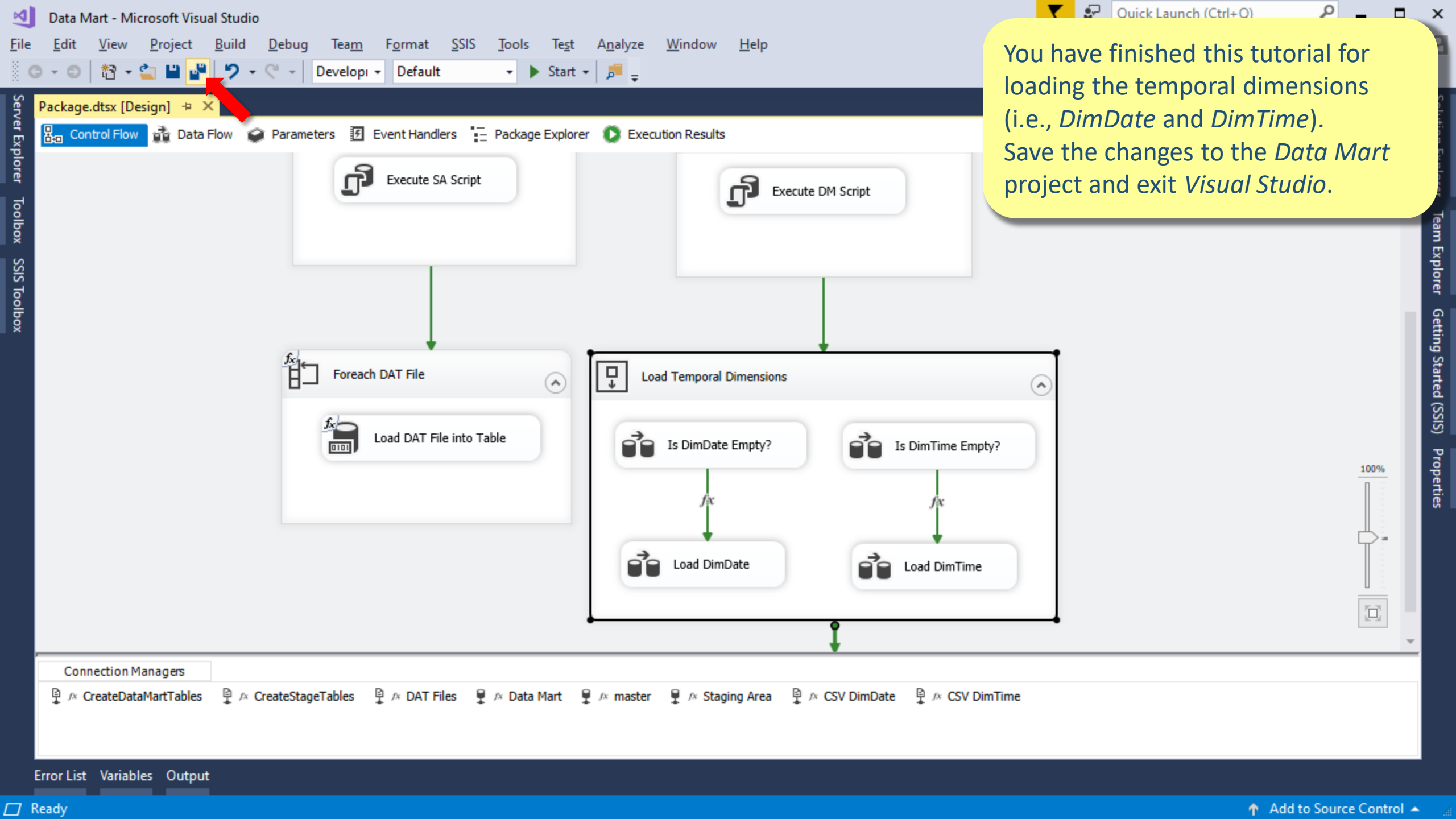
As *DimDate* was previously loaded, the number of existing records is not zero. As the *DimDate* is not empty, only the first component is executed.


Data Mart - Microsoft Visual Studio
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Quick Launch (Ctrl+Q)
Load the *DimTime* dimension using the same approach and using the *DimTime.csv* available in the *Files* folder (created during last class).
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Execution Results
Execute SA Script
Execute DM Script
Foreach DAT File
Load DAT File into Table
Load Temporal Dimensions
Is DimDate Empty?
Is DimTime Empty?
Load DimDate
Load DimTime
100%
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
CSV DimTime
Error List
Variables
Output
Item(s) Saved
Add to Source Control


Data Mart (Running) - Microsoft Visual Studio
In the first execution, both components (i.e., *IsDimTime Empty?* and *Load DimTime*) should execute (given that *DimTime* has no records).
Package.dtsx [Design]
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Progress
Execute SA Script
Execute DM Script
Foreach DAT File
Load DAT File into Table
Load Temporal Dimensions
Is DimDate Empty?
Is DimTime Empty?
Load DimDate
Load DimTime
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
CSV DimTime
Package execution completed. Click here to switch to design mode, or select Stop Debugging from the Debug menu.
Call Stack
Breakpoints
Exception Settings
Command Window
Immediate Window
Output
Autos
Locals
Watch 1
Ready
Add to Source Control


Data Mart (Running) - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Format SSIS Tools Test Analyze Window Help
Process: [6608] DtsDebugHost.exe
Lifecycle Events
Thread:
In the *Load DimTime Data Flow* area, it is possible to see that 54000 rows/records were loaded.
Package.dtsx [Design]
Control Flow
Data Flow
Event Handlers
Package Explorer
Progress
Data Flow Task:
Load DimTime
CSV DimTime
54 000 rows
DimTime
100%
Solution Explorer
Team Explorer
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
CSV DimTime
Package execution completed. Click here to switch to design mode, or select Stop Debugging from the Debug menu.
Call Stack
Breakpoints
Exception Settings
Command Window
Immediate Window
Output
Autos
Locals
Watch 1
Ready
Add to Source Control


Data Mart (Running) - Microsoft Visual Studio
Later executions of the *Load Temporal Dimensions Sequence Container* result just in the execution of the *IsDimTime Empty?* component, given that the *DimTime* table is not empty anymore.
Package.dtsx [Design]
Control Flow
Parameters
Event Handlers
Package Explorer
Progress
Execute SA Script
Execute DM Script
Foreach DAT File
Load DAT File into Table
Load Temporal Dimensions
Is DimDate Empty?
Is DimTime Empty?
Load DimDate
Load DimTime
Connection Managers
CreateDataMartTables
CreateStageTables
DAT Files
Data Mart
master
Staging Area
CSV DimDate
CSV DimTime
Package execution completed. Click here to switch to design mode, or select Stop Debugging from the Debug menu.
Call Stack
Breakpoints
Exception Settings
Command Window
Immediate Window
Output
Autos
Locals
Watch 1
Ready
Add to Source Control



You have finished this tutorial for loading the temporal dimensions (i.e., *DimDate* and *DimTime*). Save the changes to the *Data Mart* project and exit *Visual Studio*.