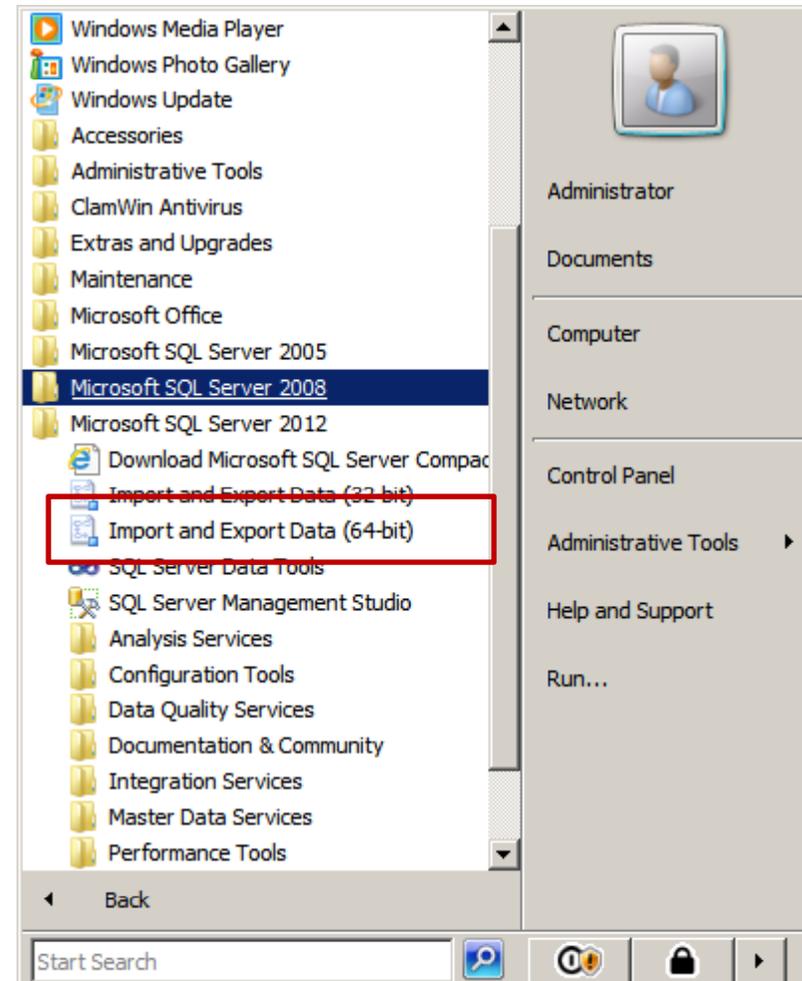


Import Data into SQL

August 23, 2012

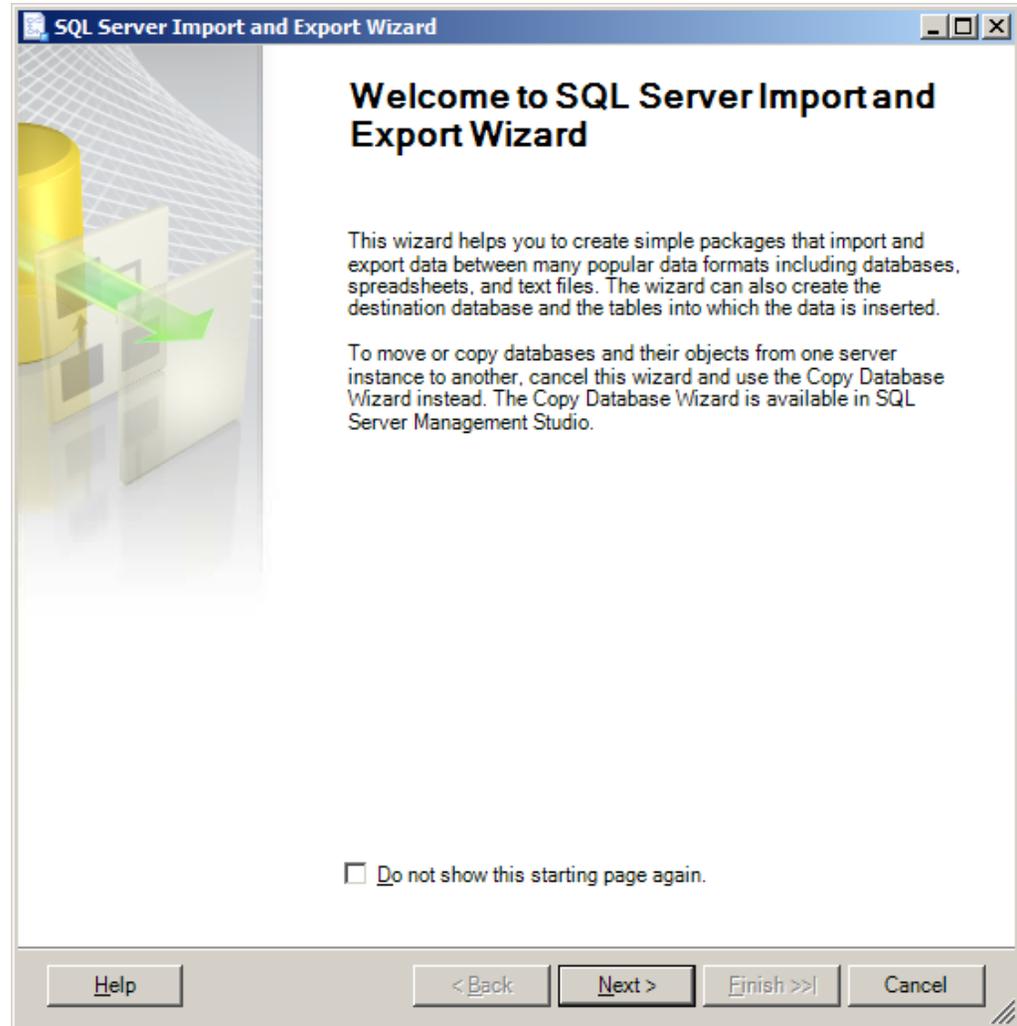
Import and Export Data (64-bit)

To import a large amount of data, we will open the Microsoft SQL Server 2012 folder and we choose Import and Export Data (64 bit).



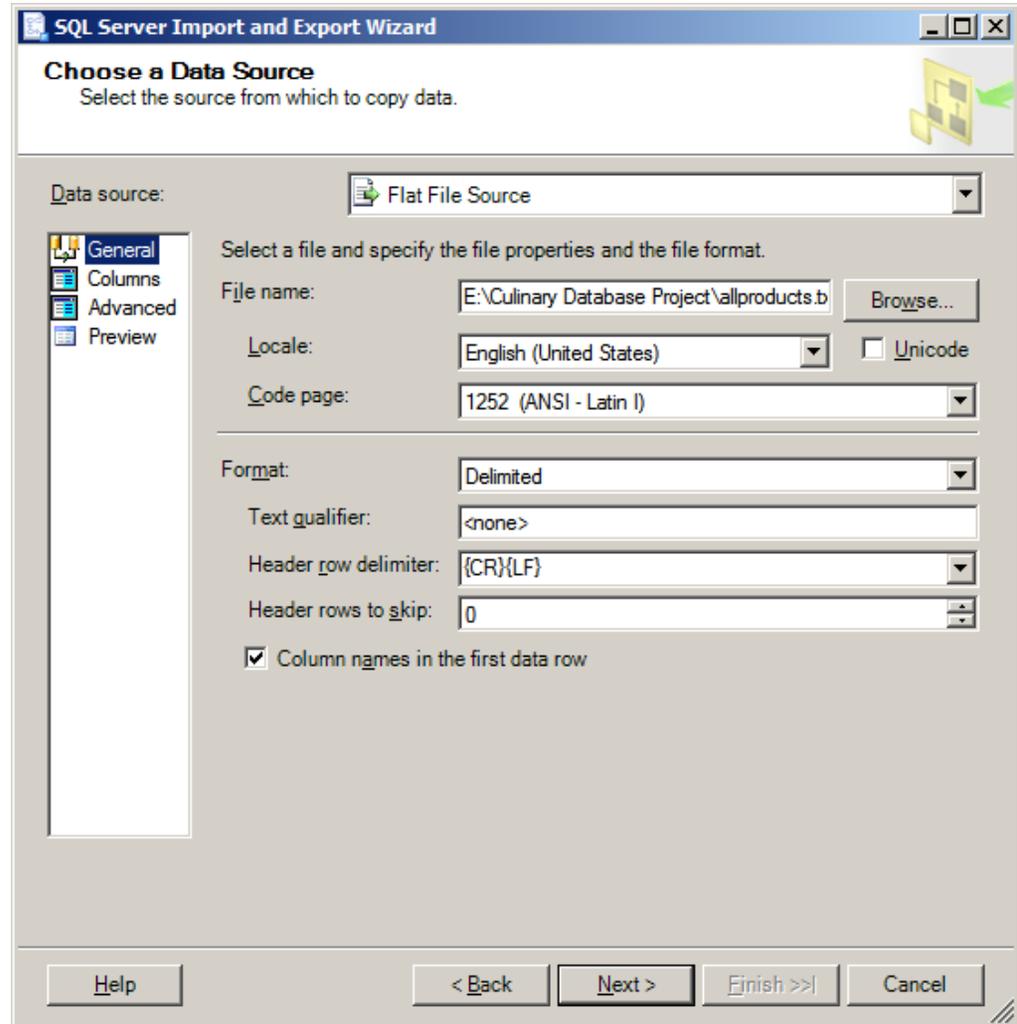
Import and Export Wizard

The Import and Export Wizard will appear and we select the Next button to continue.



Choose a Data Source

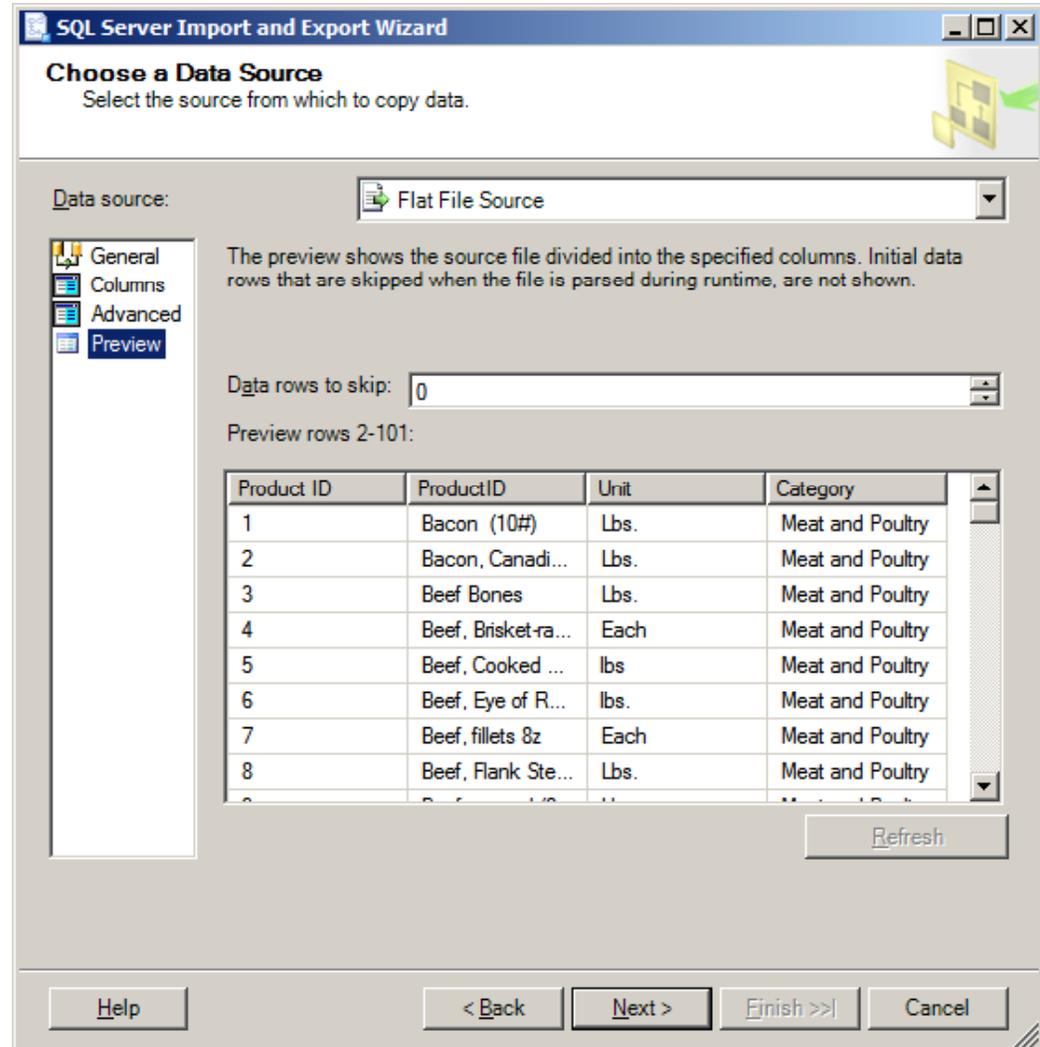
Next, we will choose a data source and we pick the Flat File Source option from the list box. We then browse for the data file. The data file is delimited and the column names are in the first row.



Preview the Data

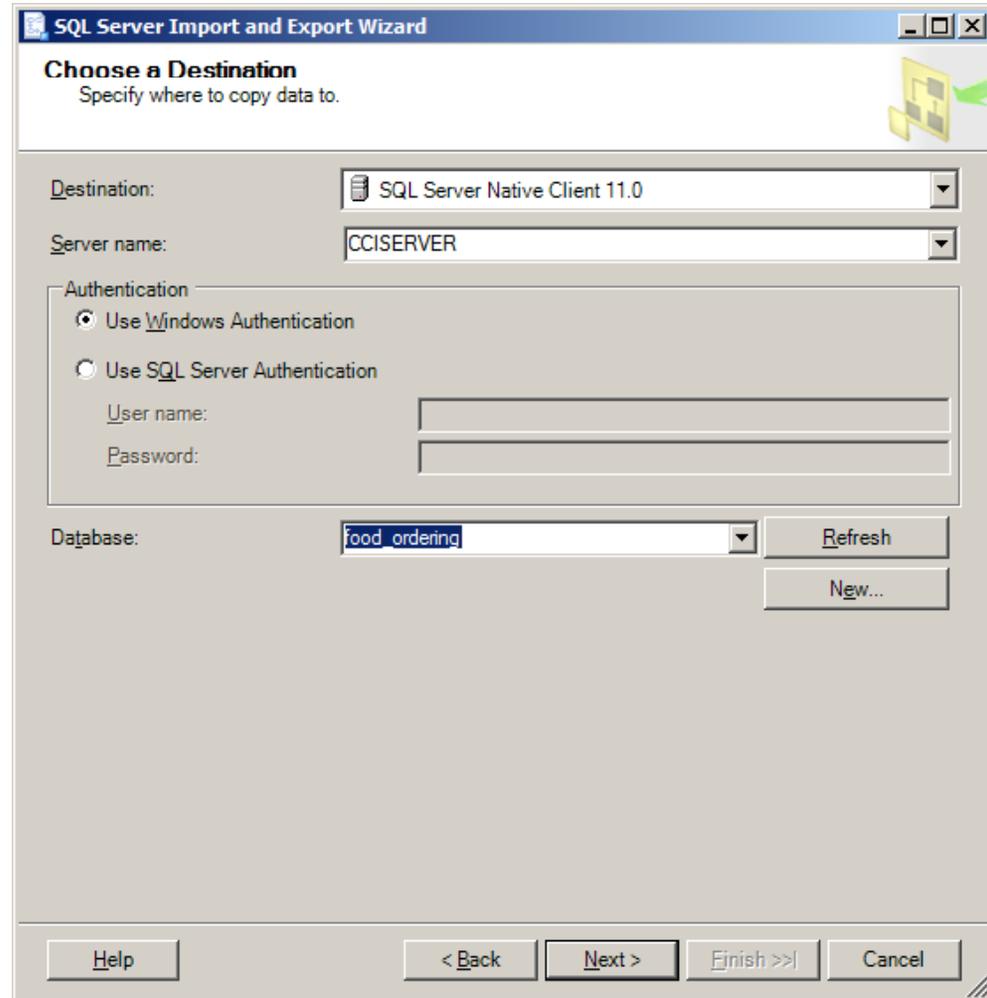
We should select preview from the list on the left side of the dialog box and we can see that the data is properly formatted.

We push the Next button to advance.



Choose a Destination

We choose the correct server name and select the food ordering database from the list.



The screenshot shows the 'SQL Server Import and Export Wizard' window, specifically the 'Choose a Destination' step. The window title is 'SQL Server Import and Export Wizard'. The main heading is 'Choose a Destination' with the subtitle 'Specify where to copy data to.'. The 'Destination:' dropdown is set to 'SQL Server Native Client 11.0'. The 'Server name:' dropdown is set to 'CCISERVER'. Under the 'Authentication' section, 'Use Windows Authentication' is selected. Below this, there are empty text boxes for 'User name:' and 'Password:'. The 'Database:' dropdown is set to 'food_ordering'. To the right of the 'Database:' dropdown are 'Refresh' and 'New...' buttons. At the bottom of the window are 'Help', '< Back', 'Next >', 'Finish >>', and 'Cancel' buttons.

Create Database

We type in the name of the new database table.

Specify the name and properties for the SQL Server database.

Name:

Data file

Initial size: megabytes

No growth allowed

Grow by percentage: %

Grow by size: megabytes

C:\Program Files\Microsoft SQL Server\MSSQL11.CCISQLSERVER\MSSQL\DATA\tblProduct_Data.mdf

Log file

Initial size: megabytes

No growth allowed

Grow by percentage: %

Grow by size: megabytes

C:\Program Files\Microsoft SQL Server\MSSQL11.CCISQLSERVER\MSSQL\DATA\tblProduct_Log.ldf

OK Cancel

Select Source Tables and Views

We now can see the source file on the left and destination dbo on the right. We can choose the Preview button to check our work.

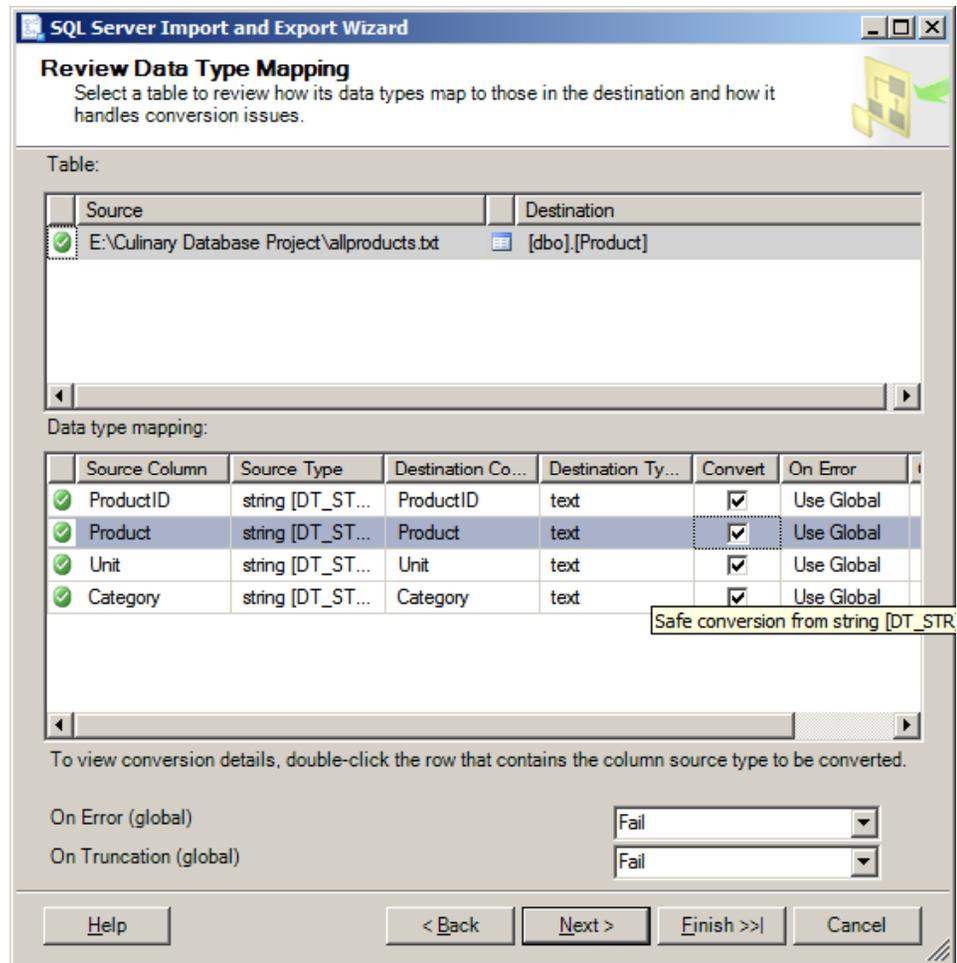
The image shows two overlapping windows from Microsoft SQL Server. The background window is the 'SQL Server Import and Export Wizard' at the 'Select Source Tables and Views' step. It shows a source file 'E:\Culinary Database Project\allproducts.bt' selected, with the destination set to 'CCISERVER' and the table 'dbo].[Product]' chosen. The 'Preview...' button is visible at the bottom right of this window.

The foreground window is the 'Data View' window, which displays a preview of the data from the selected table. It shows a table with the following columns: ProductID, Product, Unit, and Category. The data is as follows:

ProductID	Product	Unit	Category
1	Bacon (10#)	Lbs.	Meat and P...
2	Bacon, Can...	Lbs.	Meat and P...
3	Beef Bones	Lbs.	Meat and P...
4	Beef, Briske...	Each	Meat and P...
5	Beef, Cook...	lbs	Meat and P...
6	Beef, Eye of...	lbs.	Meat and P...
7	Beef, fillets 8z	Each	Meat and P...
8	Beef, Flank ...	Lbs.	Meat and P...
9	Beef, groun...	Lbs.	Meat and P...
10	Beef, Lean ...	Lbs.	Meat and P...
11	Beef, Liver (...)	Lbs.	Meat and P...
12	Beef, medall...	Each	Meat and P...

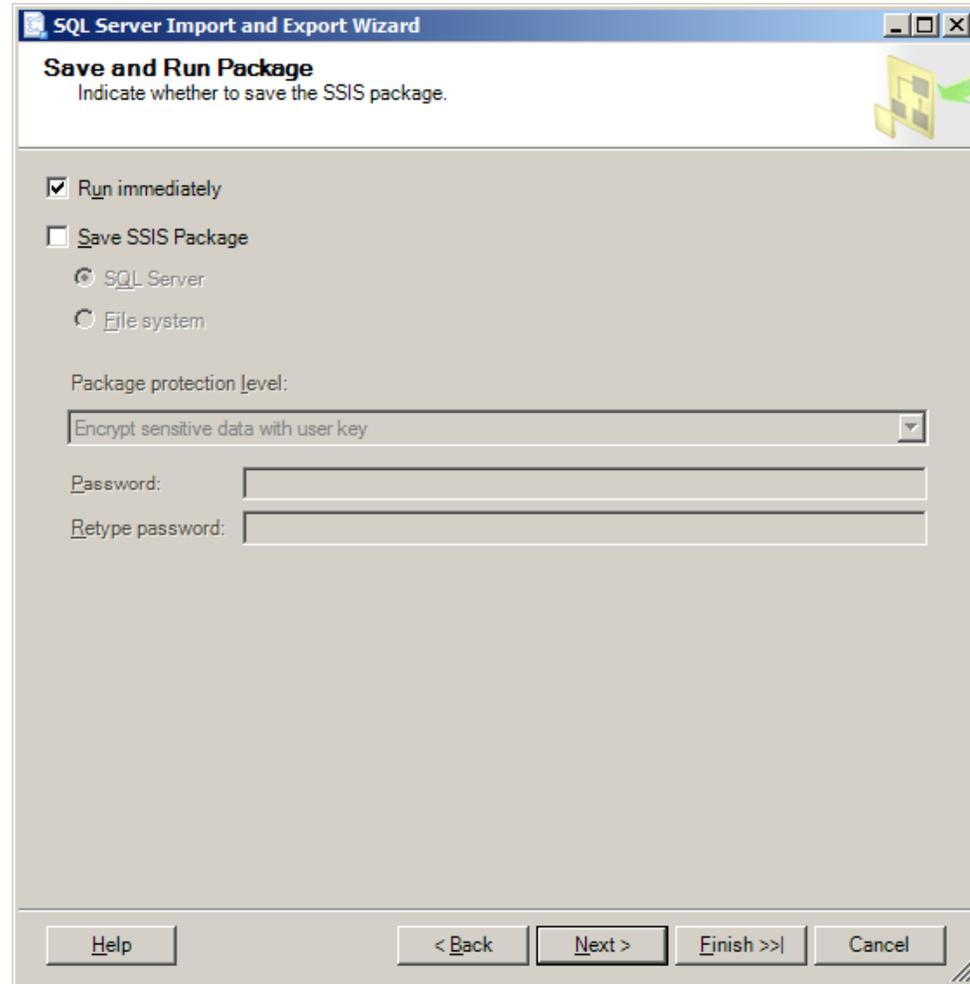
Review Data Type Mapping

We check the data type mapping from the source to the destination. Make sure the convert checkbox is annotated.



Save and Run Package

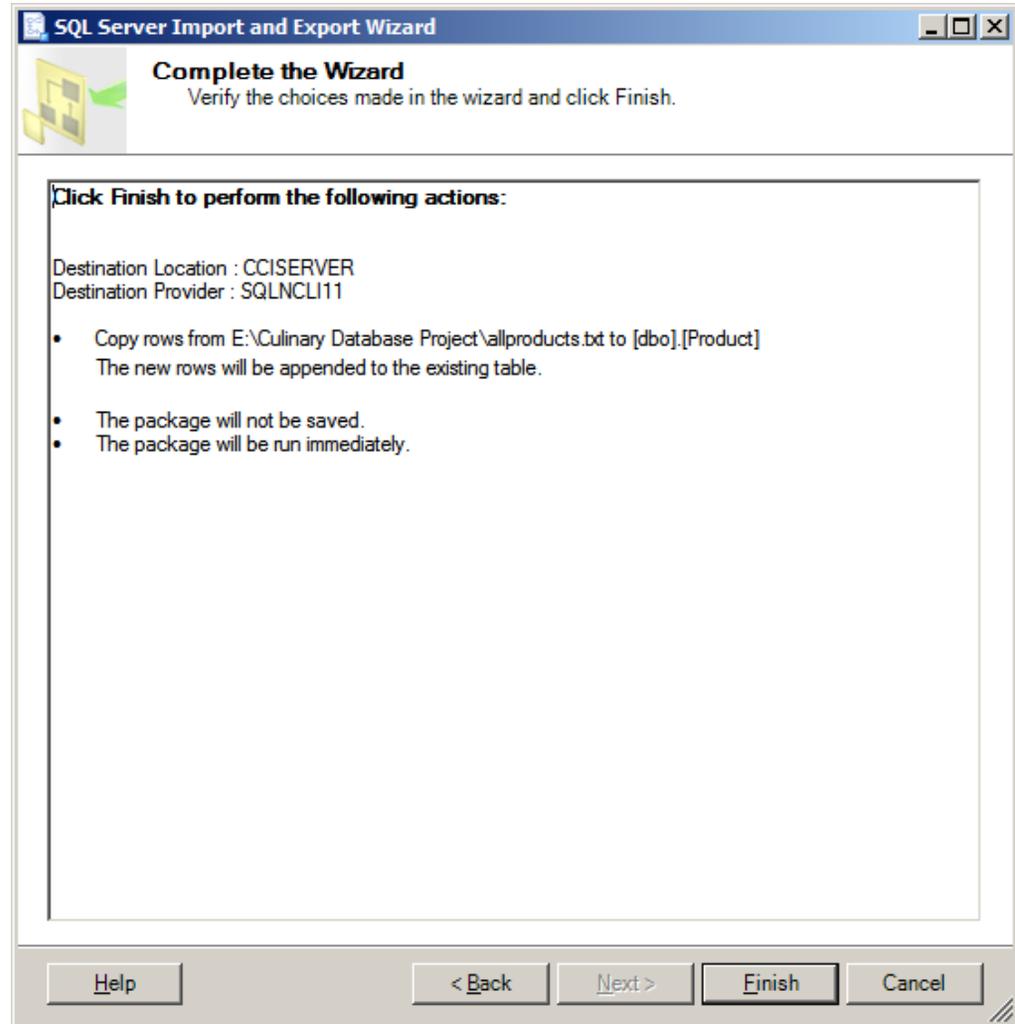
We run the conversion immediately.



The screenshot shows the 'Save and Run Package' dialog box within the 'SQL Server Import and Export Wizard'. The dialog has a title bar with the text 'SQL Server Import and Export Wizard' and standard window controls. Below the title bar, the main heading is 'Save and Run Package' with the instruction 'Indicate whether to save the SSIS package.' and a small icon of a folder with a green arrow. The main area contains several options: a checked checkbox for 'Run immediately', an unchecked checkbox for 'Save SSIS Package', and two radio buttons for 'SQL Server' (selected) and 'File system'. Below these is a 'Package protection level:' dropdown menu set to 'Encrypt sensitive data with user key'. There are two empty text input fields labeled 'Password:' and 'Retype password:'. At the bottom, there are five buttons: 'Help', '< Back', 'Next >', 'Finish >>', and 'Cancel'.

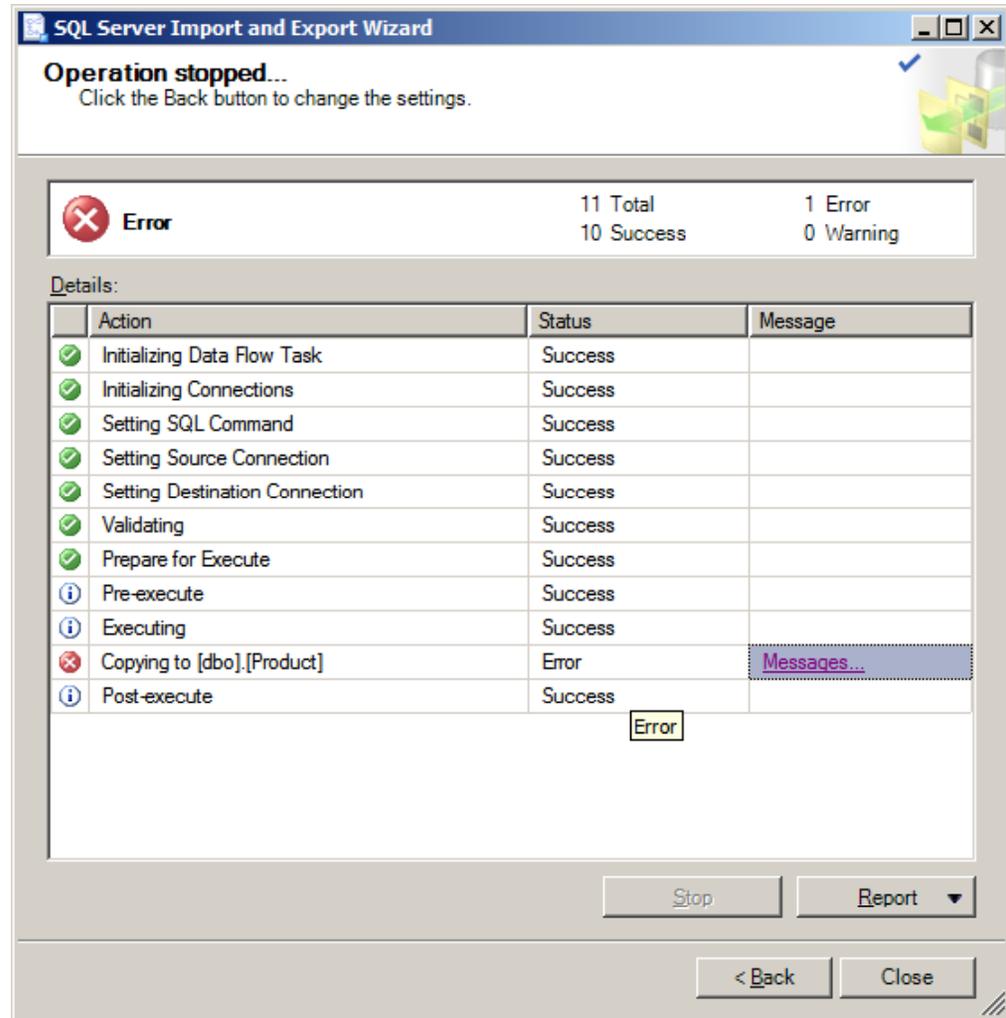
Complete the Wizard

Complete the wizard by selecting the Finish button.



Operation

The operation stopped and so we fixed.



Import the Database

The dbo.Product is built.

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'CCISERVER', including the 'food_ordering' database and the 'dbo.Product' table. The main window shows a SQL query that has been executed, returning a list of products. The status bar at the bottom indicates that the query was executed successfully, returning 934 rows.

```
SQLQuery1.sql - CCISERVER.master (CCISERVER\Administrator (53)) - Microsoft SQL Server Management Studio (Administrator)
File Edit View Query Project Debug Tools Window Help
master Execute Debug
Object Explorer
Connect
CCISERVER (SQL Server 9.0.1399 - CCISERVER\Administrator)
  Databases
    System Databases
      master
      model
      msdb
      tempdb
    Database Snapshots
    FirstThursday
    food_ordering
      Database Diagrams
      Tables
        System Tables
        dbo.ChefInfo
        dbo.Product
          Columns
          Keys
          Constraints
          Triggers
          Indexes
          Statistics
        Views
        Synonyms
        Programmability
        Service Broker
        Storage
        Security
SQLQuery1.sql - CCIS...Administrator (53) x CCISERVER.food_ordering - dbo.Product
/***** Script for SelectTopNRows command from SSMS *****/
SELECT TOP 1000 [ProductID]
      ,[Product]
      ,[Unit]
      ,[Category]
FROM [food_ordering].[dbo].[Product]
100 %
Results Messages
ProductID Product Unit Category
923 923 Plastic Cups 50ct slv PAPER/CHEM...
924 924 Plastic Food Bags Each PAPER/CHEM...
925 925 Plastic Spoons box PAPER/CHEM...
926 926 Plastic, forks box PAPER/CHEM...
927 927 Plastic, knives box PAPER/CHEM...
928 928 Spic n Span Spray Each PAPER/CHEM...
929 929 Stemo Each PAPER/CHEM...
930 930 Tide Each PAPER/CHEM...
931 931 Toothpicks, round lux PAPER/CHEM...
932 932 Towels Brown Roll Each PAPER/CHEM...
933 933 Twine Butcher Each PAPER/CHEM...
934 934 chopsticks PAPER/CHEM...
Query execu... CCISERVER (9.0 RTM) CCISERVER\Administrato... master 00:00:00 934 rows
Ready Ln 1 Col 1 Ch 1 INS
```

ProductID	Product	Unit	Category
923	Plastic Cups 50ct	slv	PAPER/CHEM...
924	Plastic Food Bags	Each	PAPER/CHEM...
925	Plastic Spoons	box	PAPER/CHEM...
926	Plastic, forks	box	PAPER/CHEM...
927	Plastic, knives	box	PAPER/CHEM...
928	Spic n Span Spray	Each	PAPER/CHEM...
929	Stemo	Each	PAPER/CHEM...
930	Tide	Each	PAPER/CHEM...
931	Toothpicks, round	lux	PAPER/CHEM...
932	Towels Brown Roll	Each	PAPER/CHEM...
933	Twine Butcher	Each	PAPER/CHEM...
934	chopsticks		PAPER/CHEM...