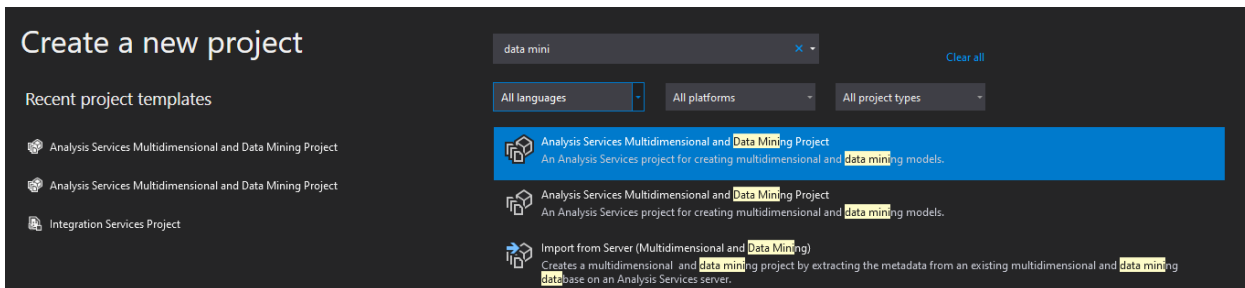
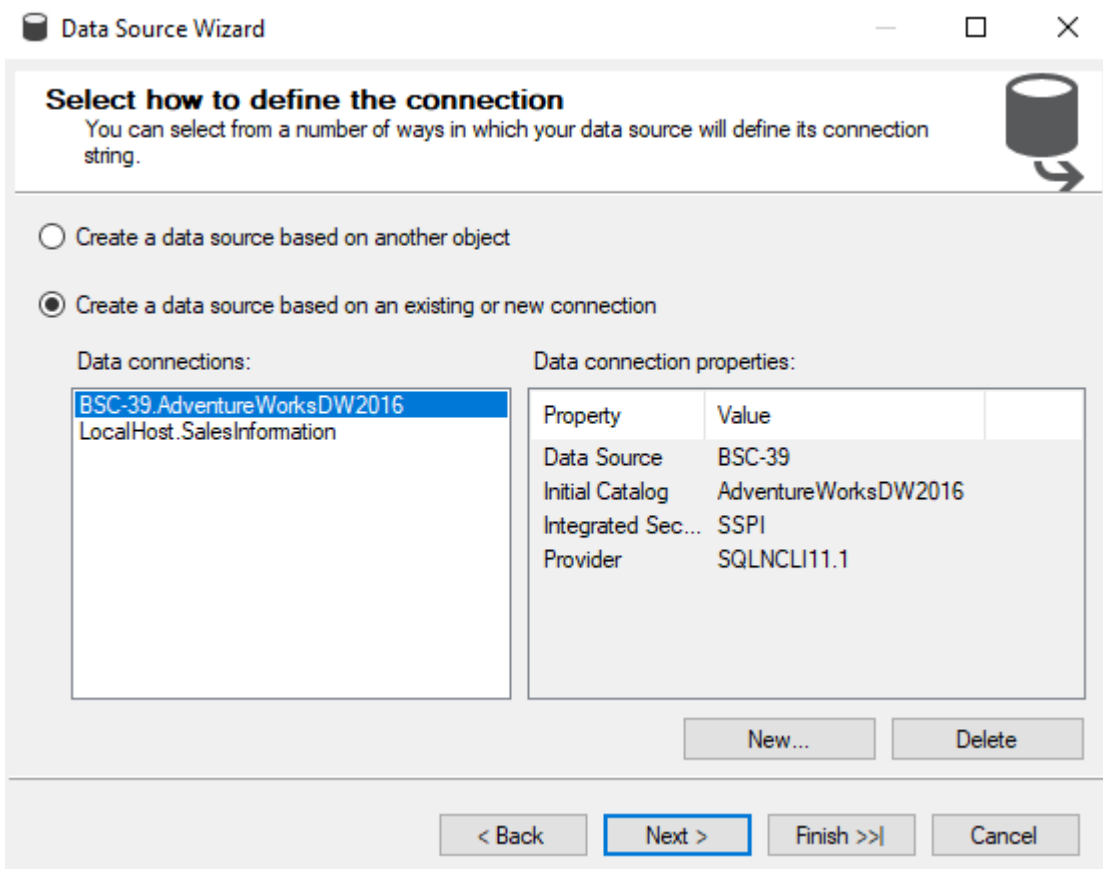


# Practical 1

Step 1: Open Application -> Visual Studio 2019 -> Create Project -> Analysis services multidimensional and data mining project -> Create



Step 2: Right Click on Data Sources -> New 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

Step 3: Click on Next . Choose “Inherit” option.

Step 4: Right click on Data Source View -> New Data Source View

**Data Source View Wizard**

### Select a Data Source

Select an existing relational data source or create a new one.

Relational data sources:

Adventure Works DW2016

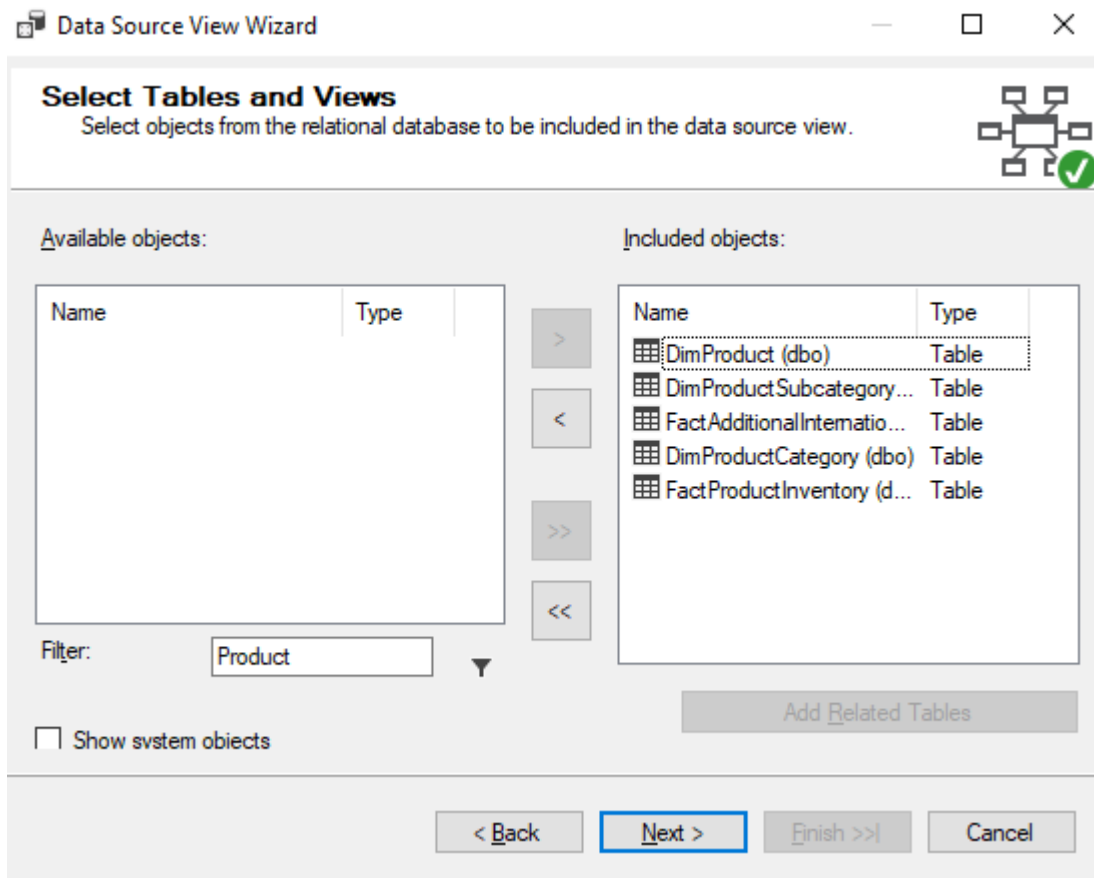
Data source properties:

Property	Value
Data Source	BSC-39
Initial Catalog	AdventureWorksDW2016
Integrated Sec...	SSPI
Provider	SQLNCLI11.1

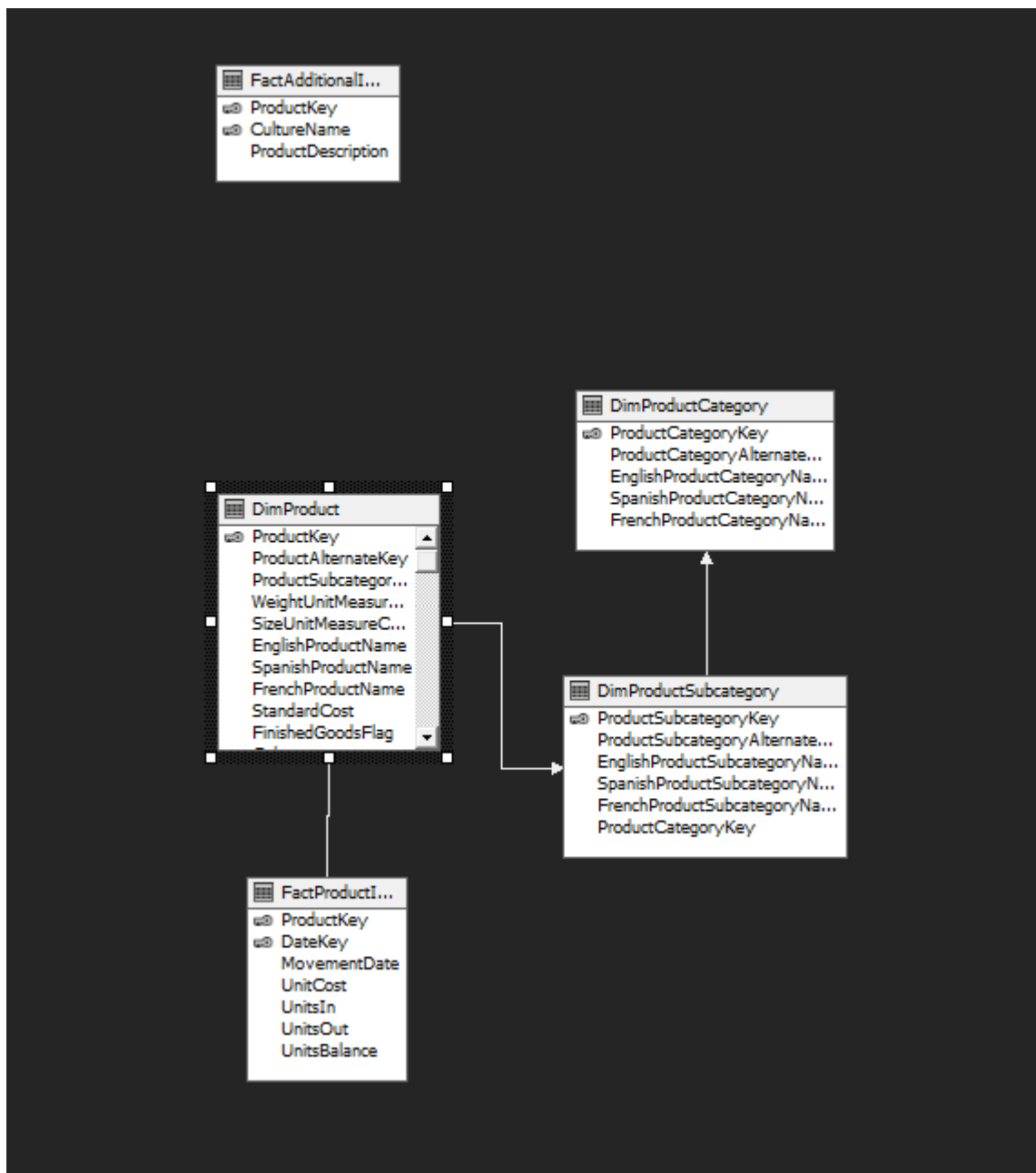
New Data Source...   Advanced...

< Back   **Next >**   Finish >>   Cancel

Step 5: Click on Next -> Use filter “Product”. Select Tables and Views. ->



Step 6: Next & Finish Finally, we will get the Data Source View like



Step 7: Right click on Cubes -> New Cube.

Cube Wizard

### Select Creation Method

Cubes can be created by using existing tables, creating an empty cube, or generating tables in the data source.

How would you like to create the cube?

☒ Use existing tables

☐ Create an empty cube

☐ Generate tables in the data source

Template:

(None)

Description:

Create a cube based on one or more tables in a data source.

< Back Next > Finish >>| Cancel

Step 8: Click Next

Cube Wizard

### Select Measure Group Tables

Select a data source view or diagram and then select the tables that will be used for measure groups.

Data source view:

Adventure Works DW2016

Measure group tables:

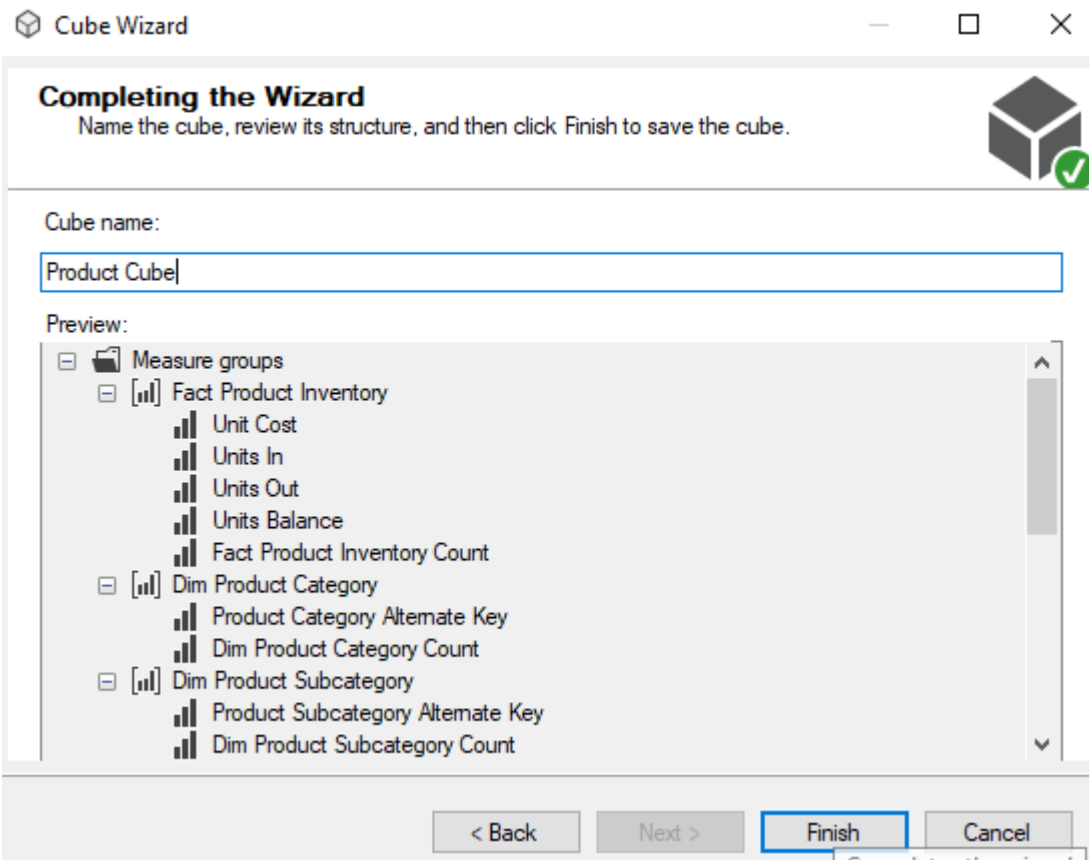
Suggest

<input checked="" type="checkbox"/>	<input type="checkbox"/>	DimProduct
<input checked="" type="checkbox"/>	<input type="checkbox"/>	DimProductSubcategory
<input checked="" type="checkbox"/>	<input type="checkbox"/>	FactAdditionalInternationalProductDescription
<input checked="" type="checkbox"/>	<input type="checkbox"/>	DimProductCategory
<input checked="" type="checkbox"/>	<input type="checkbox"/>	FactProductInventory

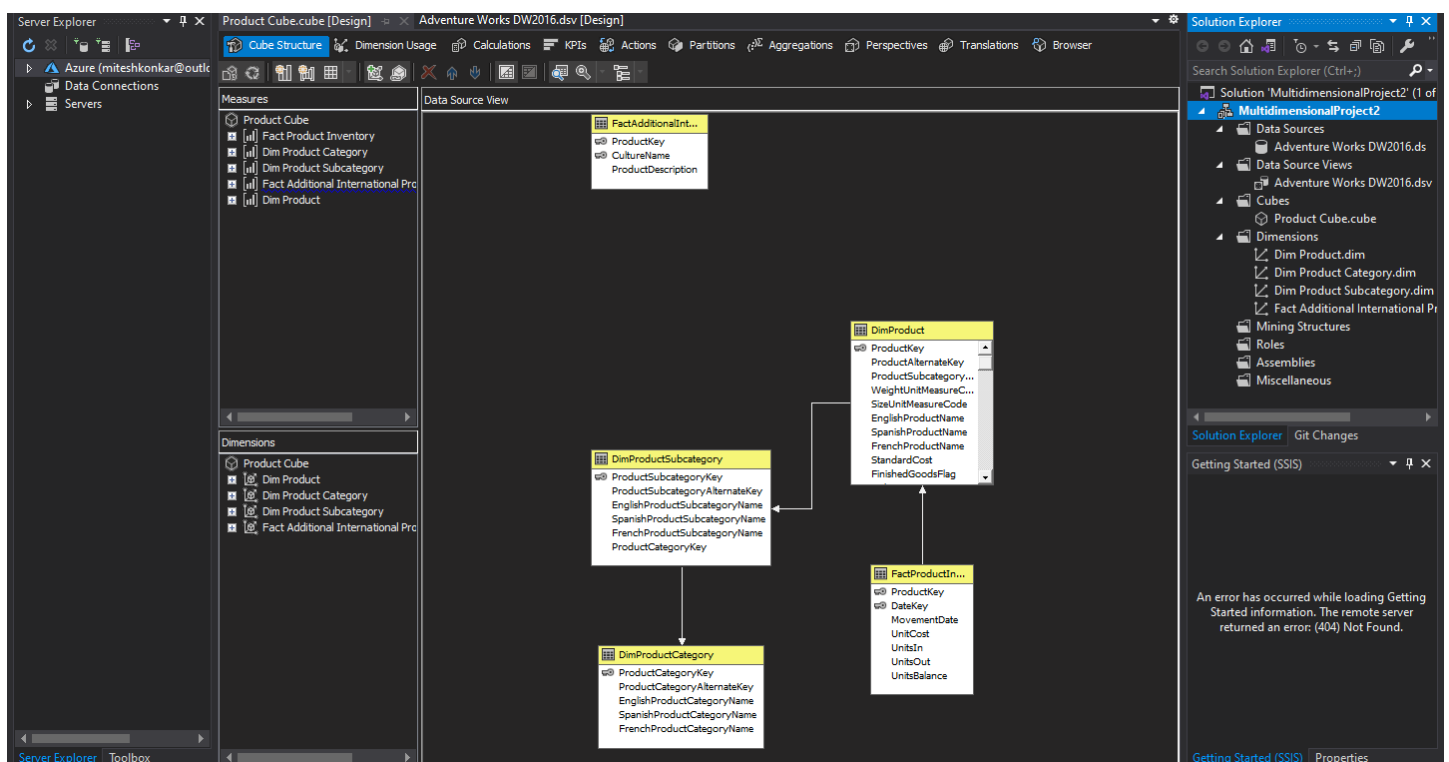
< Back Next > Finish >>| Cancel

Step 9: Select Data Source View as “Sales Product” and Select all the tables.

Step 10: Next > Next > Name the Cube > Finish



Step 11: Finally, we will get the Cube View as well Dimensions View like :



Step 12: Finally, Process cube by Right click on ProductCube -> Process .

Process Cube - Product Cube

Object list:

Object Name	Type	Process Options	Settings
Product Cube	Cube	Process Full	

Remove Impact Analysis...

Batch Settings Summary

Processing order:  
Parallel

Transaction mode:  
(Default)

Dimension errors:  
(Default)

Dimension key error log path :  
(Default)

Process affected objects:  
Do not process

Change Settings...

Run... Close

Step 13: Click on Run.

Process Progress

Command

- Processing Dimension 'Dim Product' completed.
- Processing Dimension 'Dim Product Category' completed.
- Processing Dimension 'Dim Product Subcategory' completed.
- Processing Dimension 'Fact Additional International Product Description' completed.
- Processing Cube 'Product Cube' completed.

Start time: 03-12-2021 12:15:10; End time: 03-12-2021 12:15:13; Duration: 0:00:02

- Processing Measure Group 'Dim Product' completed.
- Processing Measure Group 'Dim Product Category' completed.
- Processing Measure Group 'Dim Product Subcategory' completed.
- Processing Measure Group 'Fact Additional International Product Description' completed.
- Processing Measure Group 'Fact Product Inventory' completed.

Status:

Process succeeded.

Stop Reprocess View Details... Copy

Close Help

Step 14: Open MS-Excel. Click on Data Menu.

Step 15: Go to From Other Sources.

Step 16: From SQL Server -> Type Server name as “.”

Data Connection Wizard

**Connect to Database Server**

Enter the information required to connect to the database server.

1. Server name: .

2. Log on credentials

☒ Use Windows Authentication

☐ Use the following User Name and Password

User Name:

Password:

Cancel < Back Next > Finish

Step 17: Click on Next. Choose SQL Database ->

Data Connection Wizard

**Select Database and Table**

Select the Database and Table/Cube which contains the data you want.

Select the database that contains the data you want:

Project 1

☒ Connect to a specific cube or table:

Name	Description	Modified	Created	Type
Adventure Works DW2016		3/5/2021 11:19:13 AM		CUBE

Cancel < Back Next > Finish



**Save Data Connection File and Finish**

Enter a name and description for your new Data Connection file, and press Finish to save.

File Name:

. Project 1 Adventure Works DW2016.odc

Browse...

☐ Save password in file

Description:

(To help others understand what your data connection points to)

Friendly Name:

. Project 1 Adventure Works DW2016

Search Keywords:

☐ Always attempt to use this file to refresh data

Excel Services:

Authentication Settings...

Cancel

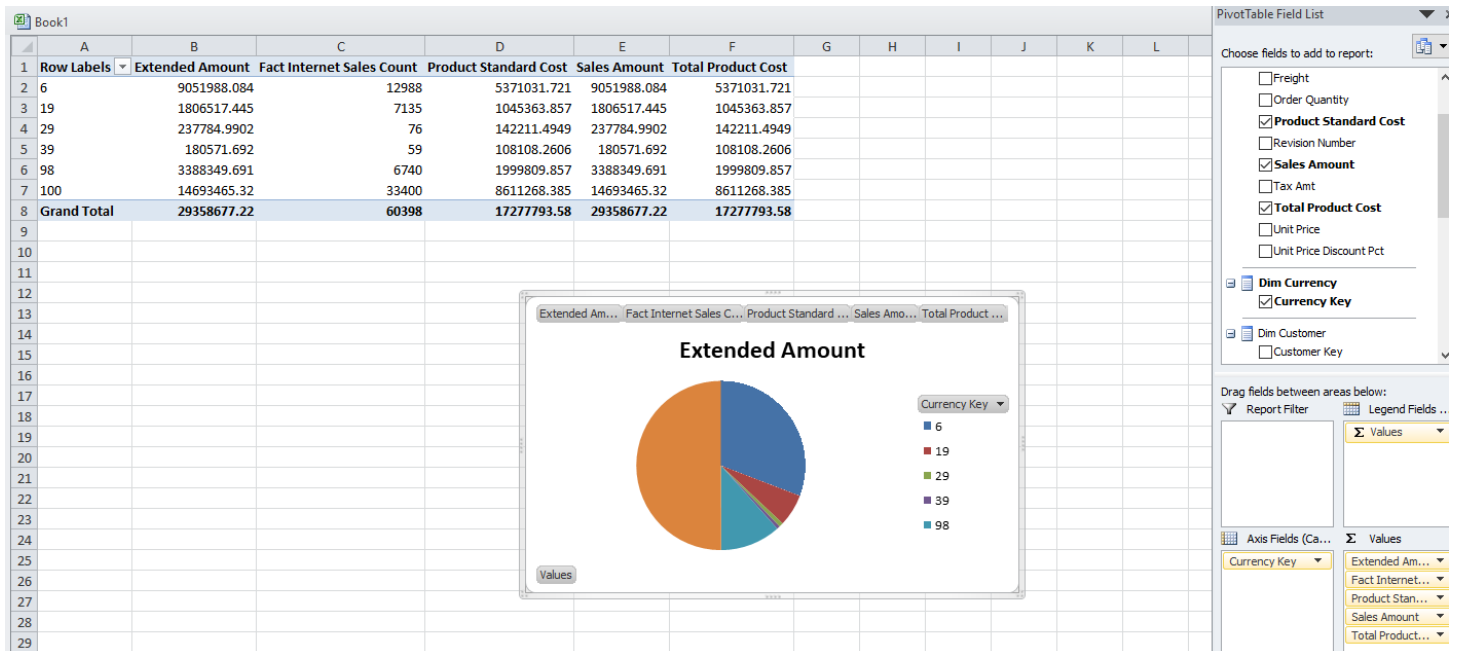
&lt; Back

Next &gt;

Finish

Step 18: Click on Finish

Step 19: Select Result Area. Go to Insert Menu. Select Pie Chart option.



Step 20: Select Result Area. Go to Insert Menu. Select Column option.

