Adventure Works Sample Database

As of 04/2015

Introduction

Downloading the Adventure Works sample database is a good idea since many tutorials use the database as an example to walk you through how to accomplish certain tasks. These instructions show you where to locate the file(s) and to add them in SQL Server.

There are three primary Adventure Works databases you will be using:

- **AdventureWorks**: The standard, relational, normalized, OLTP Adventure Works database.
- **AdventureWorksDW**: The data warehouse version of Adventure Works to help you understand the data warehouse structure and associated tutorials.
- **AdventureWorksDW2014Multidimensional-[SE or EE]**: The multidimensional, OLAP version of Adventure Works to help you understand the multidimensional structure and how to use SQL Server Analysis Services. The **AdventureWorksDW2014Multidimensional-SE** database is used for the Standard Edition version of SQL Server. The **AdventureWorksDW2014Multidimensional-EE** database is same as the Standard Edition, but used for the Enterprise Edition version of SQL Server.

Each one of them helps you understand different aspects of basic database design and practices as well as how to use different SQL Server Features included SSRS, SSIS, and SSAS.

Downloads

Adventure Works for SQL Server current version
http://msftdbprodsamples.codeplex.com/

Adventure Works for SQL Server 2014
http://msftdbprodsamples.codeplex.com/releases/view/125550

Adventure Works for SQL Server 2012
http://msftdbprodsamples.codeplex.com/releases/view/55330

Help Links

https://www.youtube.com/watch?v=pyUsp8qc7hg
http://social.technet.microsoft.com/wiki/contents/articles/3735.sql-server-samples-readme.aspx#Readme_for_Adventure_Works_Sample_Databases
http://dba.stackexchange.com/questions/20244/directory-lookup-failed-when-adding-sample-database-to-sql-server-2012

Steps At-A Glance

1. Go to http://msftdbprodsamples.codeplex.com/ to find to download the relevant Adventure Works database file.

2. Download the zip fil to your selected download folder.

3. Unzip the **Adventure Works OTLP Database** and **Adventure Works Data Warehouse** files to the default SQL Server backup directory.

4. After unzipping the **Adventure Works OTLP Database** and **Adventure Works Data Warehouse** files, log into the relevant Database Engine instance in SQL Server Management Studio and in a new **SQL query** window restore the backup file by executing the following scripts to restore their database files:

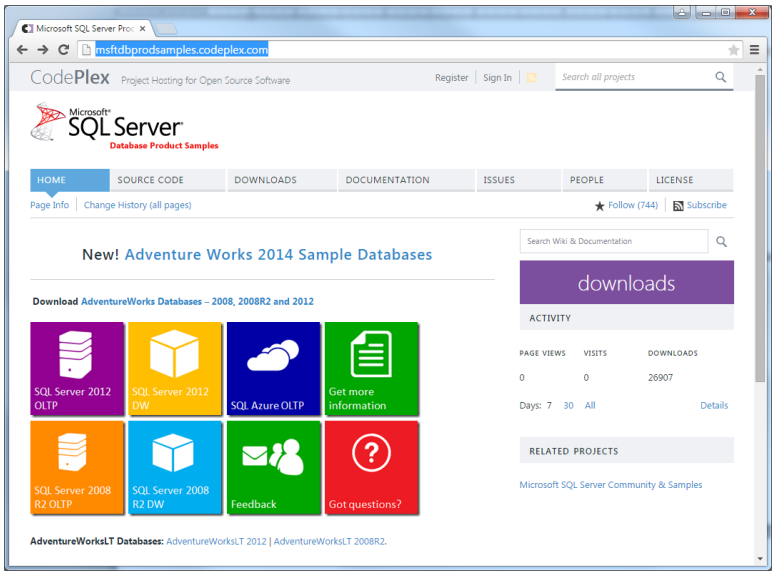
5. Unzip the **Adventure Works Multidimensional Databases** file to the default SQL Server backup directory.

6. After unzipping the **Adventure Works Multidimensional Databases** file, log into the relevant Analysis Services instance in SQL Server Management Studio and in a new **XMLA query** window restore the backup file by executing the following scripts to restore the database file:

7. All Done!

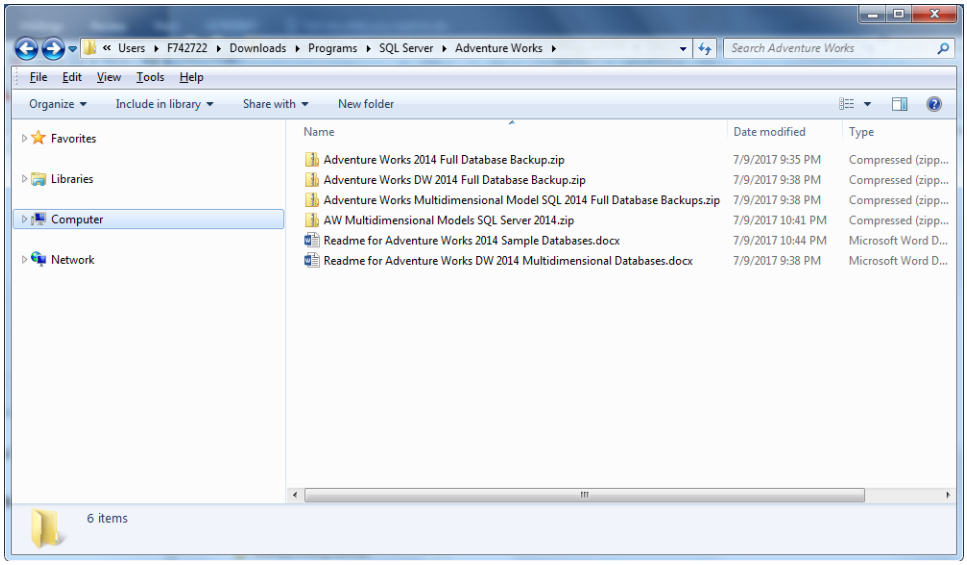
Detailed Steps

1. Go to http://msftdbprodsamples.codeplex.com/ to find to download the relevant Adventure Works database file.



Special note(s): When there, you will be taken to the most recent release, however, you can find the older versions as well.

2. Download the zip fil to your selected download folder.

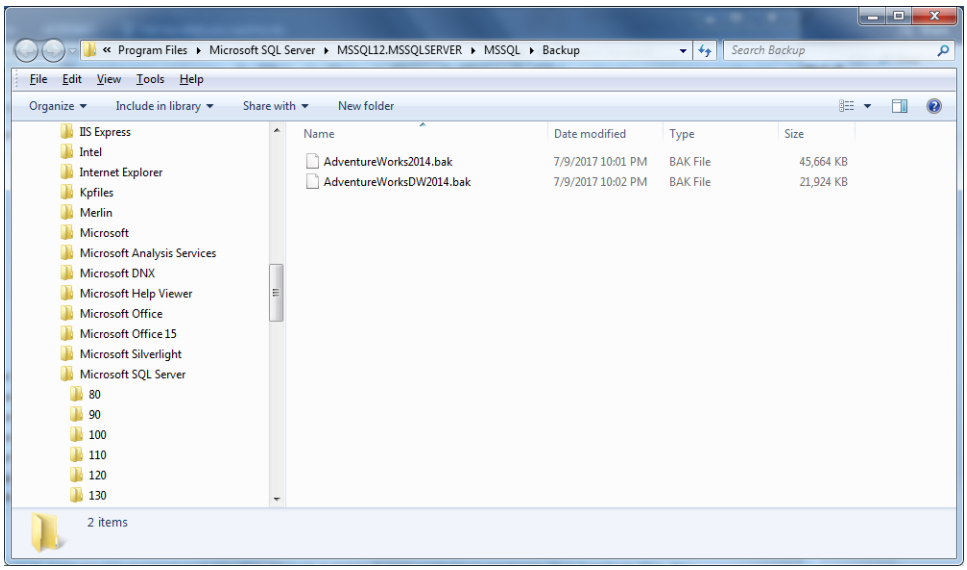


Special note(s): The files you'll need to download include the following:

- **Adventure Works OTLP Database** Adventure Works 2014 Full Database Backup.zip
- **Adventure Works Data Warehouse** Adventure Works DW 2014 Full Database Backup.zip
- **Adventure Works Multidimensional Database** Adventure Works Multidimensional Model SQL 2014 Full Database Backups.zip
- **Adventure Works Multidimensional Project** AW Multidimensional Models SQL Server 2014.zip

The Adventure Works Multidimensional Project download file has the solution/project files that you can use in Visual Studio. You can use this option to create the solution files and then deploy the solution to create the actual database in SQL Server Analysis Services.

3. Unzip the **Adventure Works OTLP Database** and **Adventure Works Data Warehouse** files to the default SQL Server backup directory.



Special note(s): For example, for SQL Server Developer, for the default instance, this could be:

C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\Backup

4. After unzipping the **Adventure Works OTLP Database** and **Adventure Works Data Warehouse** files, log into the relevant Database Engine instance in SQL Server Management Studio and in a new **SQL query** window restore the backup file by executing the following scripts to restore their database files:

Adventure Works OTLP Database

```
USE [master]

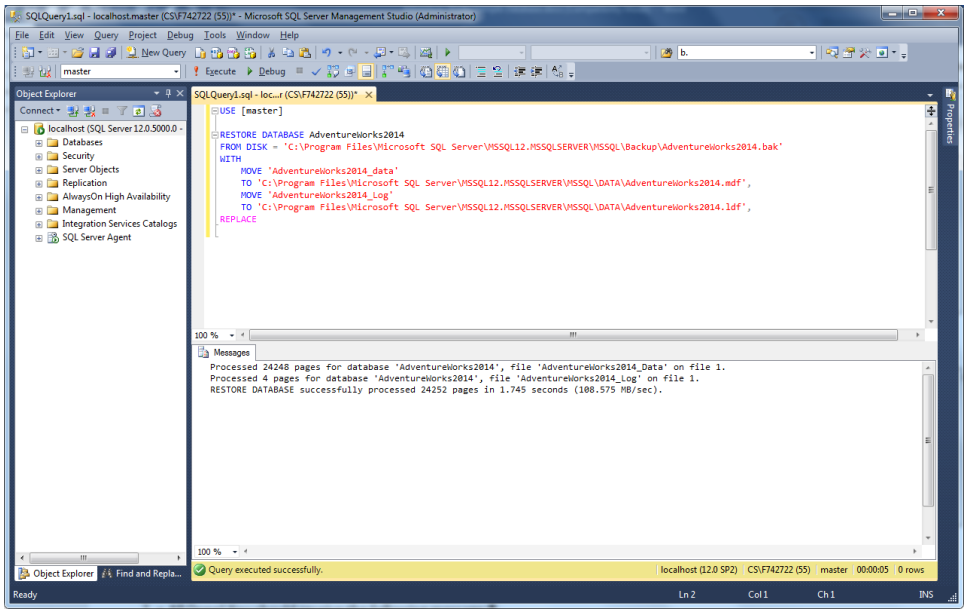
RESTORE DATABASE AdventureWorks2014
FROM DISK = 'C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\Backup\AdventureWorks2014.bak'
WITH
        MOVE 'AdventureWorks2014_data'
        TO 'C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\DATA\AdventureWorks2014.mdf',
        MOVE 'AdventureWorks2014_Log'
        TO 'C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\DATA\AdventureWorks2014.ldf',
REPLACE
```

Adventure Works Data Warehouse

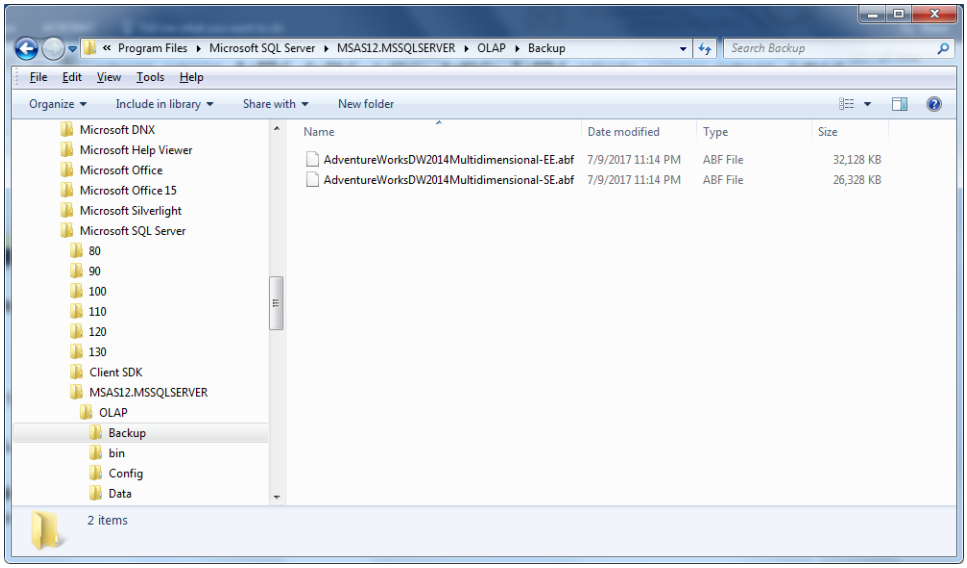
```
RESTORE DATABASE AdventureWorksDW2014
FROM DISK = 'C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\Backup\AdventureWorksDW2014.bak'
WITH
        MOVE 'AdventureWorksDW2014_data'
        TO 'C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\DATA\AdventureWorksDW2014.mdf',
        MOVE 'AdventureWorksDW2014_Log'
        TO 'C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\DATA\AdventureWorksDW2014.ldf',
REPLACE
```

Special note(s): Make sure you have the path and database name correct. Also, you must make sure the location of the file is in a permissible location otherwise you'll get an error (see Error 1 under Appendix A below).

5. You should receive the following message:



6. Unzip the **Adventure Works Multidimensional Databases** file to the default SQL Server backup directory.



Special note(s): For example, for SQL Server Developer, for the default instance, this could be:

C:\Program Files\Microsoft SQL Server\MSAS12.MSSQLSERVER\OLAP\Backup

7. After unzipping the **Adventure Works Multidimensional Databases** file, log into the relevant Analysis Services instance in SQL Server Management Studio and in a new **XMLA query** window restore the backup file by executing the following scripts to restore the database file:

Standard Edition

```
<Restore xmlns="http://schemas.microsoft.com/analysisservices/2003/engine">
        <File>C:\Program Files\Microsoft SQL
Server\MSAS12.MSSQLSERVER\OLAP\Backup\AdventureWorksDW2014Multidimensional-SE.abf</File>
        <DatabaseName> AdventureWorksDW2014Multidimensional-SE</DatabaseName>
        <AllowOverwrite>true</AllowOverwrite>
        <DbStorageLocation xmlns="http://schemas.microsoft.com/analysisservices/2008/engine/100/100">C:\Program
Files\Microsoft SQL Server\MSAS12.MSSQLSERVER\OLAP\Data\</DbStorageLocation>
</Restore>
```

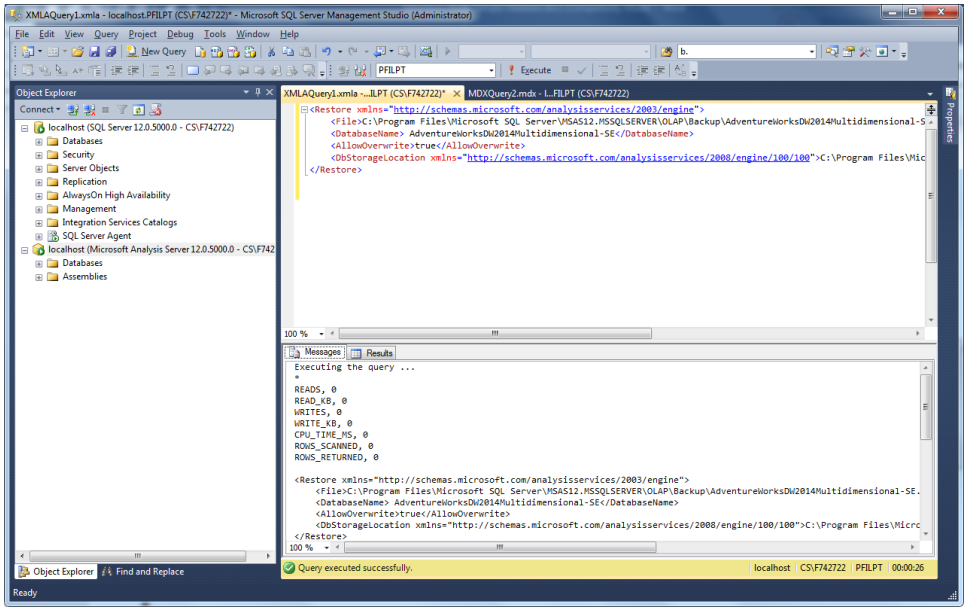
Enterprise Edition

```
<Restore xmlns="http://schemas.microsoft.com/analysisservices/2003/engine">
        <File>C:\Program Files\Microsoft SQL
Server\MSAS12.MSSQLSERVER\OLAP\Backup\AdventureWorksDW2014Multidimensional-EE.abf</File>
        <DatabaseName> AdventureWorksDW2014Multidimensional-EE</DatabaseName>
        <AllowOverwrite>true</AllowOverwrite>
        <DbStorageLocation xmlns="http://schemas.microsoft.com/analysisservices/2008/engine/100/100">C:\Program
Files\Microsoft SQL Server\MSAS12.MSSQLSERVER\OLAP\Data\</DbStorageLocation>
</Restore>
```

Special note(s): In SQL Server Developer edition, you can use both the Standard and Enterprise editions. You should have both versions in case you want to explore features that come in the Enterprise edition only.

Special note(s): This only creates the database, to create the Visual Studio project, you'll need to follow the steps included in the Appendix.

8. You should receive the following message:

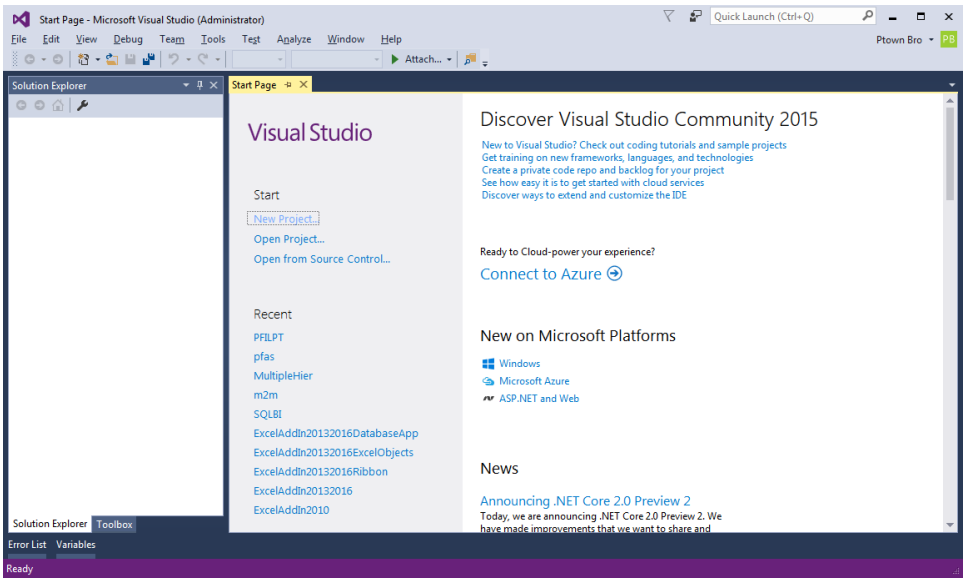


9. All Done!

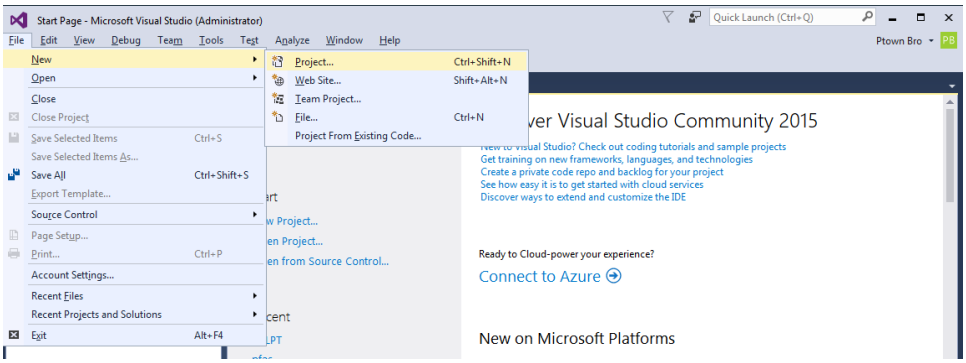
Appendix – Adding Adventure Works Multidimensional Database Project

In order to manage the Adventure Works Multidimensional Database (AWMDDB), it's best to do it from Visual Studio which gives you a graphic interface to create all associated objects and to process changes and data. You could do this directly in SQL Server Management Studio with scripts and the limited features provided there, however, Visual Studio is the preferred tool to use. To create the associated project files, follow the steps below.

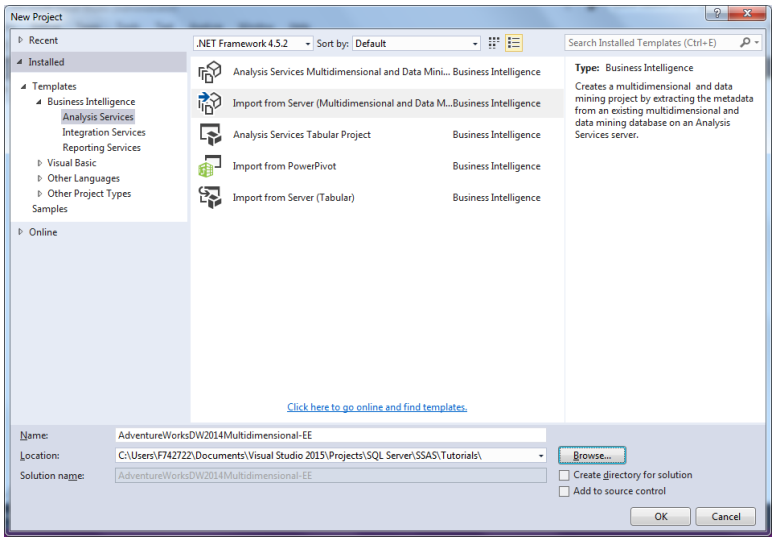
1. Start Visual Studio.



2. In the main menu, select the "File > New > Project" submenu.



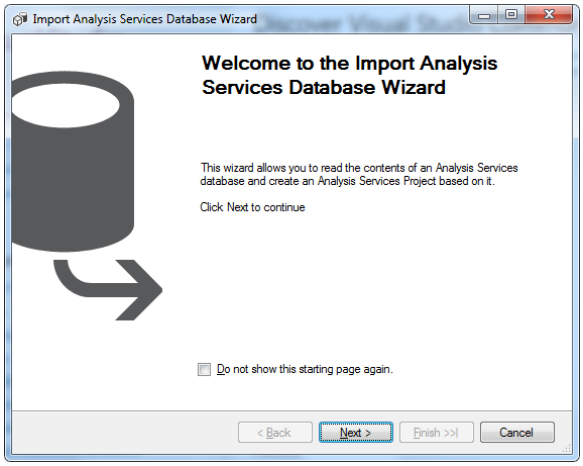
3. In the new project window, select "Installed > Templates > Business Intelligence > Analysis Services"



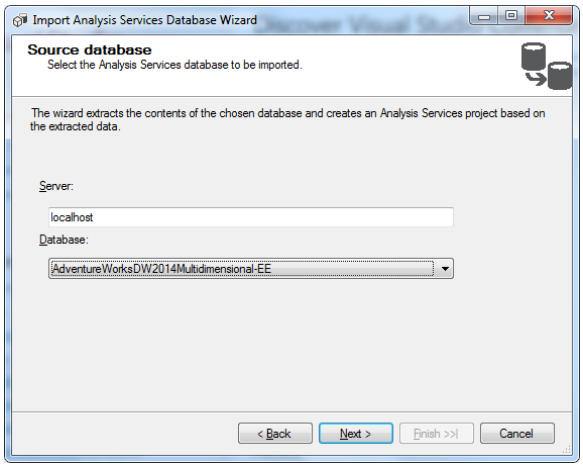
4. Change the name of the project to “AdventureWorksDW2014Multidimensional-EE” (or “AdventureWorksDW2014Multidimensional-SE”) and save the project to the selected directory.

5. The Import Analysis Services Database wizard will begin.

6. In the Import Analysis Services Database wizard, click the “Next” command button to continue.

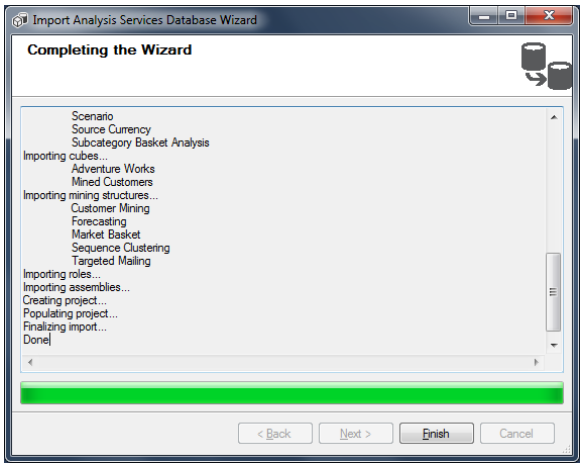


7. Select the “localhost” server, the “AdventureWorksDW2014Multidimensional-EE” (or “AdventureWorksDW2014Multidimensional-SE”) database, and then click the “Next” command button to continue importing the database.

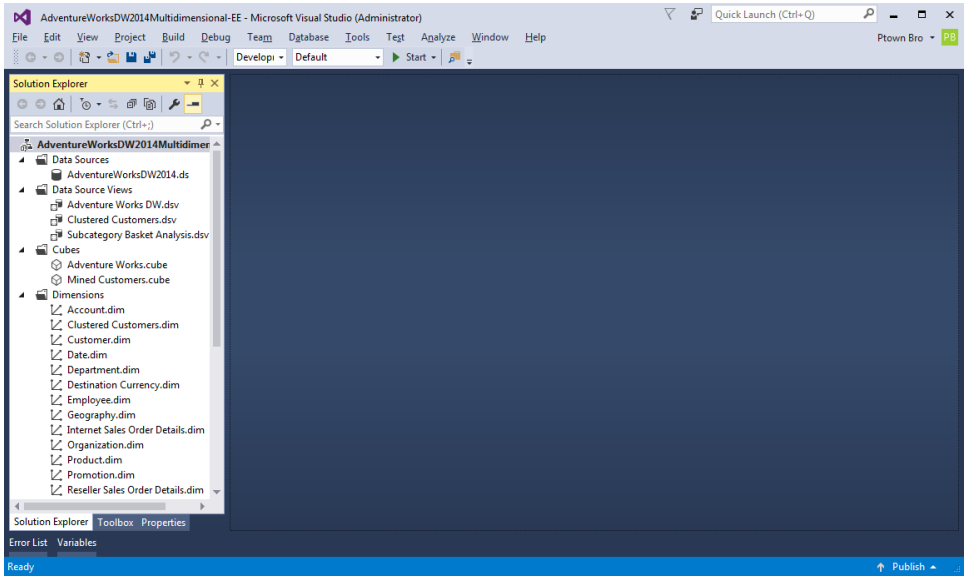


8. The wizard will begin importing the database and all it's settings into a new project.

9. Click on the "Finish" command button to complete the process.



10. All the necessary project items should be included.



11. All Done!

Error Help – Unable to Connect Database

After trying to connect the sample database you downloaded in a different directory than the defaults given by SQL Server using the script below you may get the error message listed below. This is because you've tried to connect to the database from a location which hasn't been added as permissible to SQL Server (you can make almost any location permissible in SQL Server if you like – however, I didn't bother doing that here).

Reference:
http://dba.stackexchange.com/questions/20244/directory-lookup-failed-when-adding-sample-database-to-sql-server-2012

Sample error message:

```
Msg 5133, Level 16, State 1, Line 1
Directory lookup for the file "C:\Users\Andhy.Williams\Documents\SQL Server Management
Studio\Samples\Adventure Works\AdventureWorks2012_Data.mdf" failed with the operating system error 5(Access
is denied.).
```

You can find a listing of the default location(s) using the following query:
SELECT physical_name FROM sys.master_files;" as the query, and