essentialSQL

GETTING STARTED WITH SQL SERVER 2017

Download, Install, and Explore SQL Server Developer Edition

Contents

Introduction

It can be quite confusing trying to get all the pieces in place to start using SQL. If you are just starting out or have tried and gotten frustrated in the past, then this guide is for you. Just follow these steps. We'll make it easy for you get started quickly learning SQL.

Once you have completed this guide, you will have:

1. Installed Microsoft SQL Server 2017 Developer Edition, (Good news! This is *free*.)
2. Downloaded the Adventure Works and Wide World Importers sample databases.
3. Used SQL Server Management Studio 17 (SSMS 17) to restore and access the sample databases.

By the end you be ready to start learning SQL!

Before We Begin

Before we get started be sure your computer is ready. All the following should be checked before we start:

☐ Confirm you are running Windows 8 or greater.

☐ Make sure you have administrative privilege on your account.

☐ Install the latest security updates and patches. These typically occur automatically. If you have pending updates, install them now.

Get the SQL Server Installer

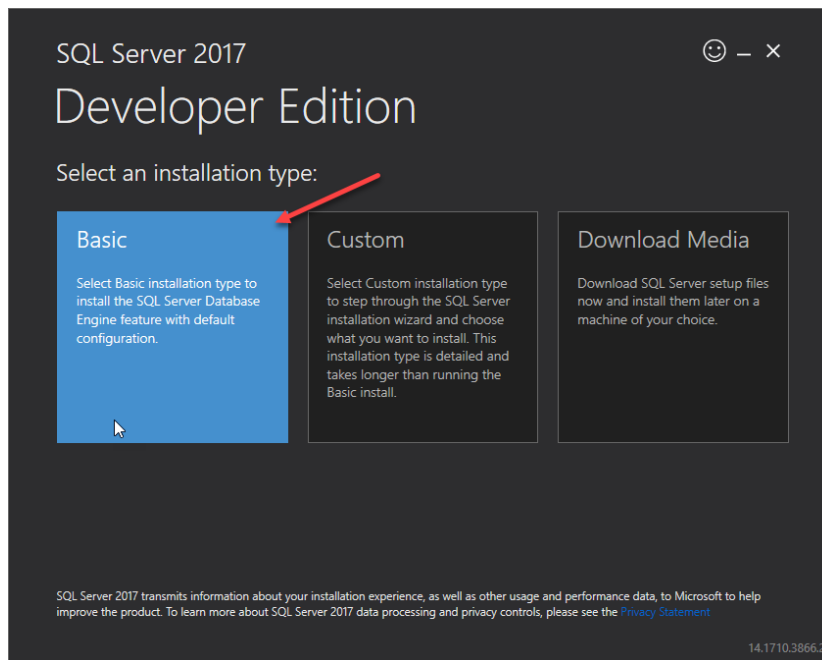We're interested in getting the development edition.

☐ Open your browser and navigate to https://www.microsoft.com/en-us/sql-server/sql-server-downloads

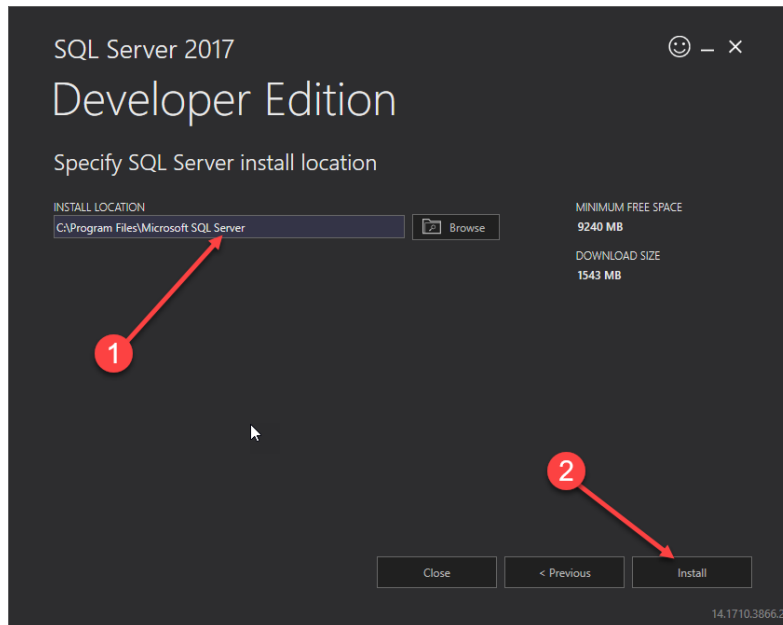☐ Once there, find the Developer edition Icon.

☐ Click **Down Load now>**.

☐ Wait for the download to complete. It should only take a minute or so.
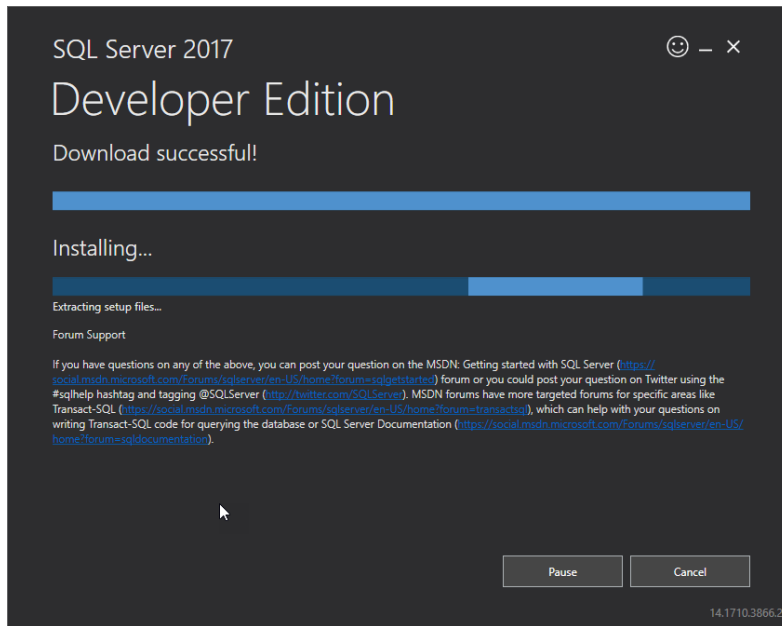
Install Microsoft SQL Server 2017 Developer Edition

☐ Navigate to your browser's download folder, then double click on the download to start the setup. On my computer the download was named **SQLServer2017-SSEI-Dev.exe**

☐ Double click **SQLServer2017-SSEI-Dev.exe** to start the installation.

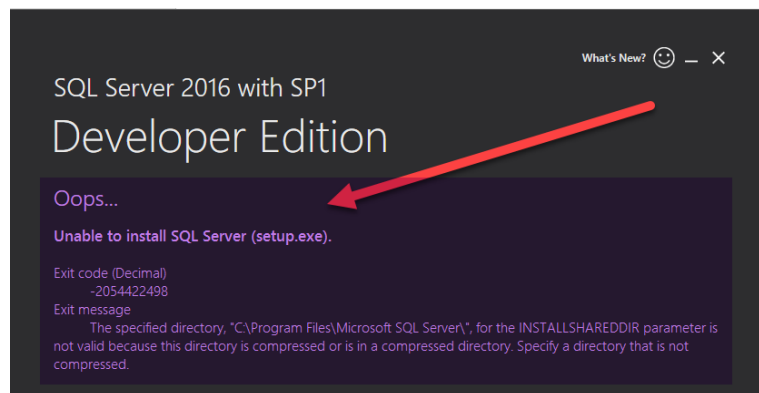☐ When the dialog appears, select the **Custom** installation type.

☐ On the next screen review the license terms and then click **Accept**.

☐ Review the installation screen and then click Install to start the process. If you wish, you can change the installation location. We will use the default.
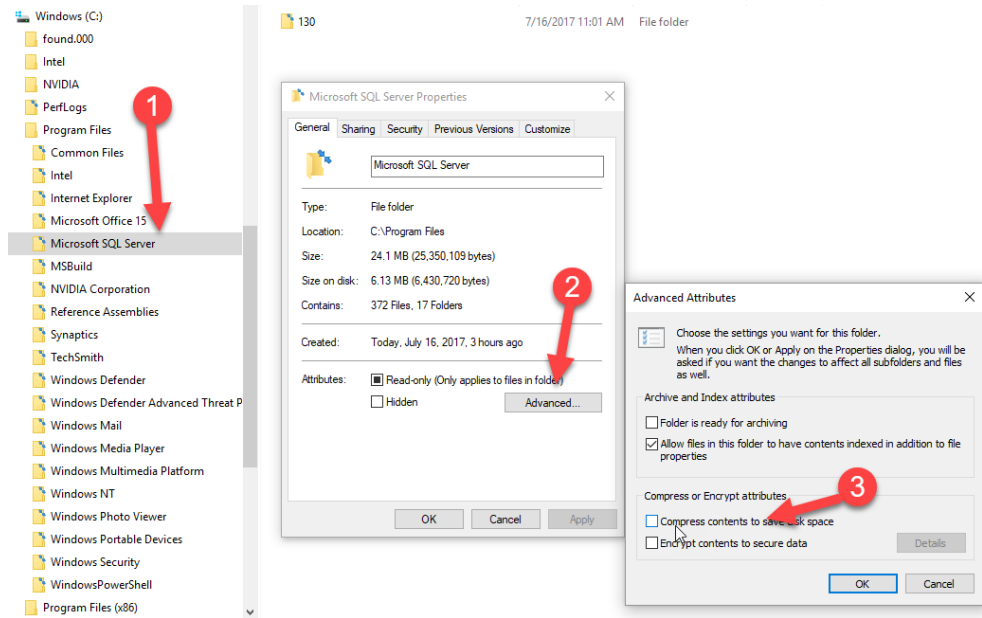
☐ During the installation, your computer will download and then install the system. Depending on your Internet connection and computer speed this can take some time.

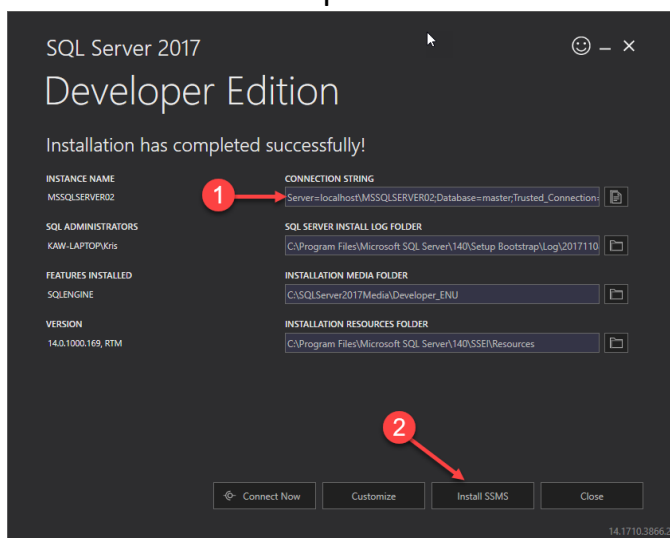Note during the installation you may get the following error

If this happens then you can un-compress the folder using the properties dialog. First close the installation then using File Explorer navigate to the Microsoft SQL Folder. Now:

1. Right click on the **Microsoft SQL Server** folder
2. Click on **Advanced**
3. Uncheck the **Compress...** check box.

Once you have uncompressed the files, restart the installation. The installation program which is named **SQLServer2017-SSEI-Dev.exe.**

☐ Once the installation is complete be sure to **copy the CONNECTION STRING** and store it in a safe place. We'll need it later to connect to the database.

☐ Now click on **Install SSMS** to start installing SQL Server Management Studio. This is the tool we'll use to write queries and view results.

☐ Click on **Download SQL Server Management Studio 17.3** to receive the installation package.

Download SQL Server Management Studio (SSMS)

🗓 10/09/2017 • ⏱ 6 minutes to read • Contributors 👤 🧑 🧑 👤 🧑 all

SSMS is an integrated environment for managing any SQL infrastructure, from SQL Server to SQL Database. SSMS provides tools to configure, monitor, and administer instances of SQL. Use SSMS to deploy, monitor, and upgrade the data-tier components used by your applications, as well as build queries and scripts.

Use SQL Server Management Studio (SSMS) to query, design, and manage your databases and data warehouses, wherever they are - on your local computer, or in the cloud.
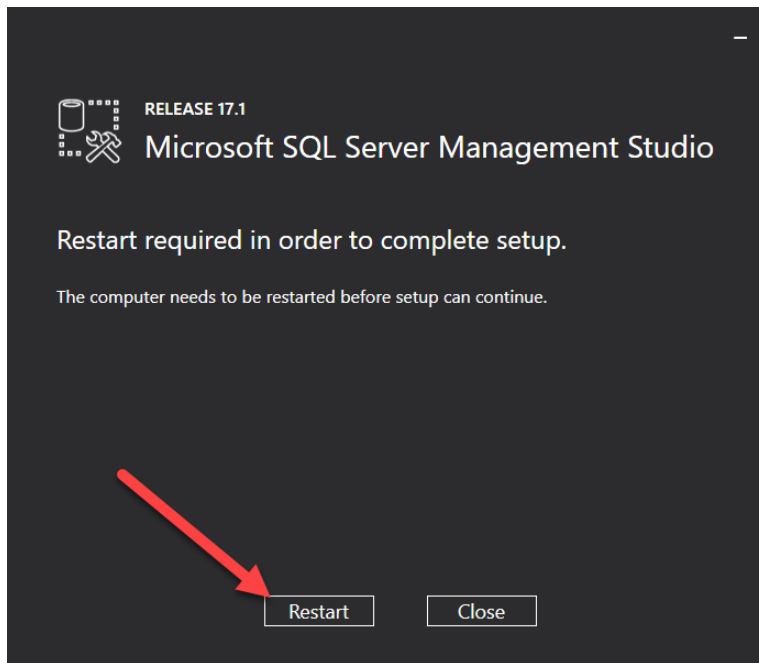
SSMS is free!

SSMS 17.x is the latest generation of *SQL Server Management Studio* and provides support for SQL Server 2017.
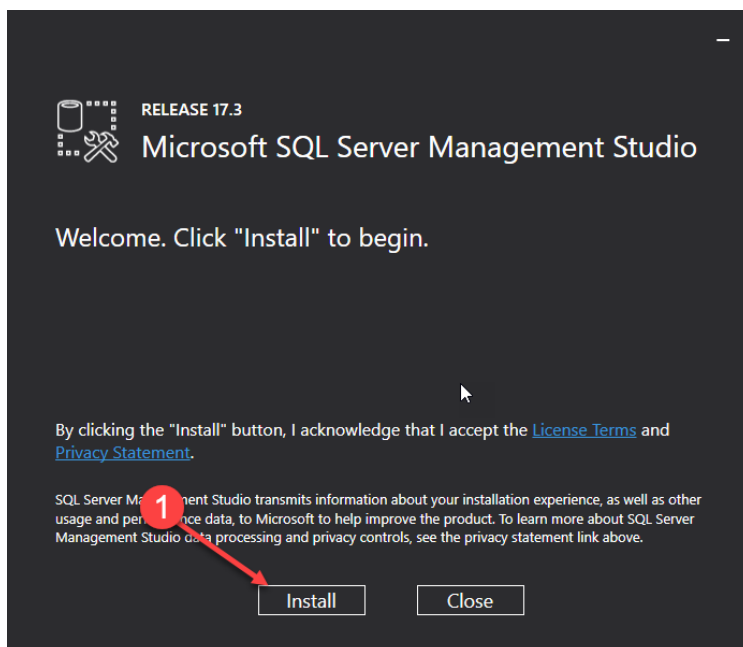
⊕ Download SQL Server Management Studio 17.3

☐ Navigate to your browser's download folder, then double click on the download to start the setup. On my computer the download was named **SSMS-Setup-ENU.exe**.

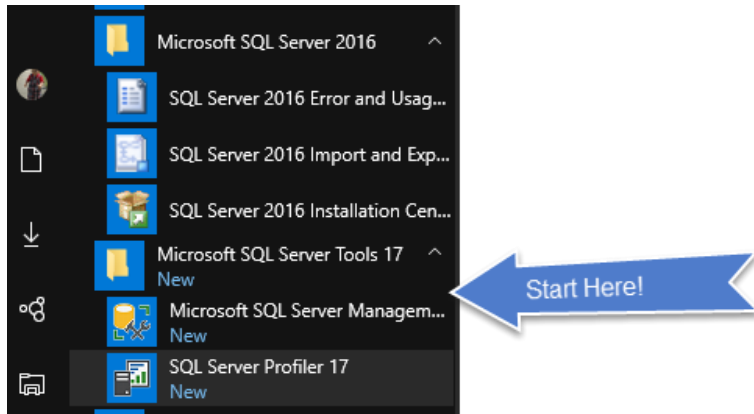☐ Double click **SSMS-Setup-ENU.exe** to start the installation. For some reason I had to Restart.

☐ Now Click **Install**.

☐ When prompted, **Restart** your computer.

☐ Once your computer restarts, you'll see the program in your start menu. You use Microsoft SQL Server Management Studio the most.

Now let's install the sample databases. We'll use these for many of the examples.

Download and Attach Sample Databases.

We're going to download two sample databases: AdventureWorks and Wide World Importers. Wide World Importers is newer, but AdventureWorks has tons of examples for it on the web. Both are good to use.
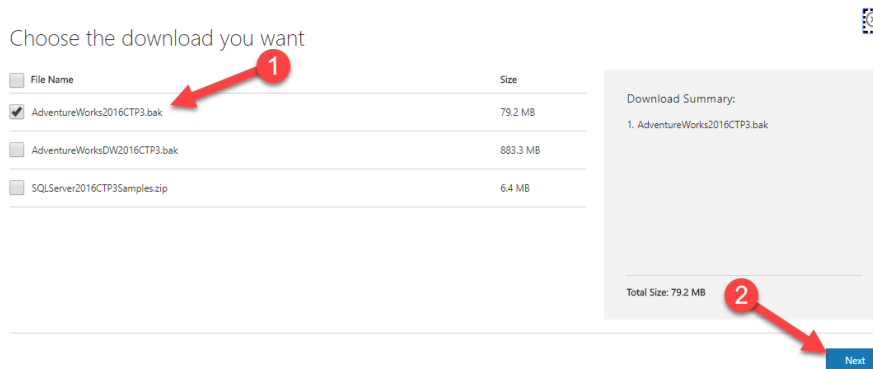
Download AdventureWorks Sample Database

In this section, we are going to download the AdventureWorks database and copy it to a location on your computer so we can use it with SQL Server.

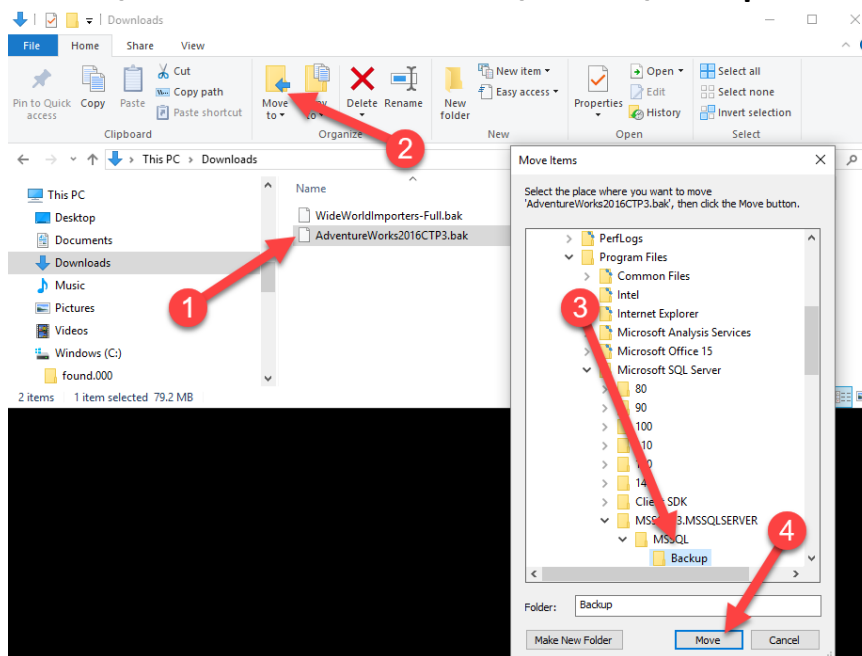☐ Click here to navigate to AdventureWorks download page.
☐ Now click Download

AdventureWorks Databases and Scripts for SQL Server 2016 CTP3

Language: English   Download

☐ Locate the AdventureWorks2017CTP3.bak, click the check box, then click **Next**.

☐ Move the .BAK file to **C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSERVER\MSSQL\Backup.**

Download Wide World Imports Sample Database

We will now download the World Imports Sample database.   To do so

☐ [Click here](#) to navigate to the download page.

☐ Click on **WideWorldImporters-Full.bak** to start the download

Wide World Importers sample database v1.0

jodebrui released this on Jun 8, 2016 · 765 commits to master since this release

WideWorldImporters sample database for SQL Server (starting 2016) and Azure SQL Database. For details see the corresponding documentation.

This release includes the following artifacts:

- SQL Server 2016 SP1 (or later) Any Edition aside from LocalDB; SQL Server 2016 RTM (or later) Evaluation/Developer/Enterprise Edition
  - WideWorldImporters-Full.bak - full sample database for OLTP (OnLine Transaction Processing) and HTAP (hybrid transaction and analytical processing aka real-time operational analytics). For SQL Server 2016 SP1 (or higher), any edition.
    - Update (8/12/2016): updated stats on system tables to support efficient reverse engineering with Entity Framework

☐ Move WideWorldImporters-Full.bak from your download folder to **C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSERVER\MSSQL\Backup.**

We'll now use SQL Server Management Studio to connect to the database, and restore the sample database backups.

Once that is done, you be ready to write queries!

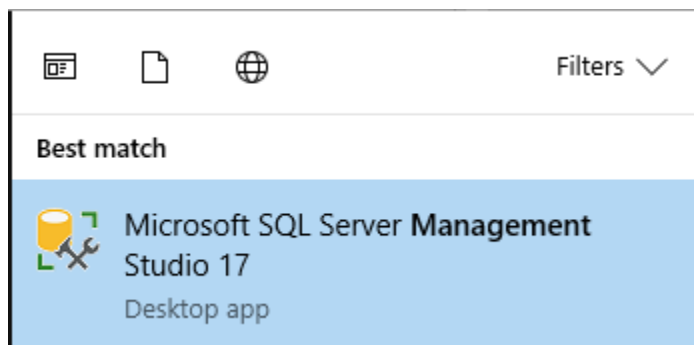Restore Backups to Database using SQL Server Management Studio

SQL Server Management Studio 17, or SSMS for short, is your gateway to SQL Server. It is a very versatile tool. You can use it to administer databases, design database tables, create and run queries, and much more.

In this section, we'll open the sample databases.

There are two things that must be done before we can use the sample database. First, we must connect SSMS to the SQL Server Instance. Then, once we are connected and talking to the DBMS, we need restore the sample databases.
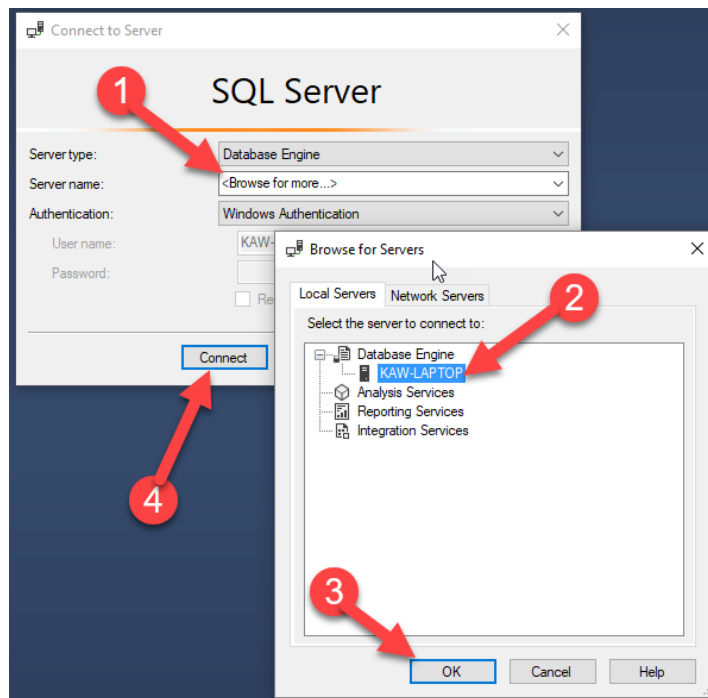
Starting Management Studio and Connect to the Database

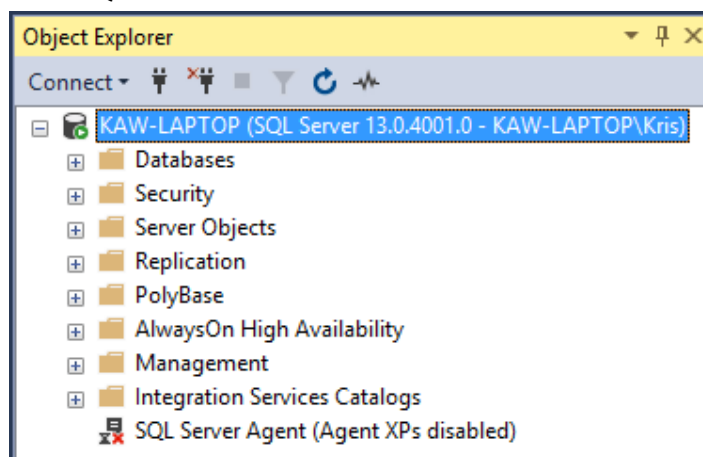☐ Press the Windows Key (⊞) and then type **Management Studio** to search for SSMS 17.

☐ Click on the **Microsoft SQL Server Management Studio 17** icon.

☐ Locate the server name drop down and click on **<Browse for more…>**

☐ In the Browse for Servers dialog, locate your server name. In my case the server was the name of my computer, then click OK.
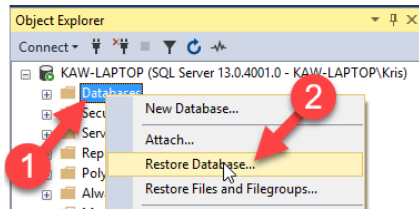

☐ Click **Connect**. You should see a display like the following, though you'll see SQL Server 14.0 rather than 13.
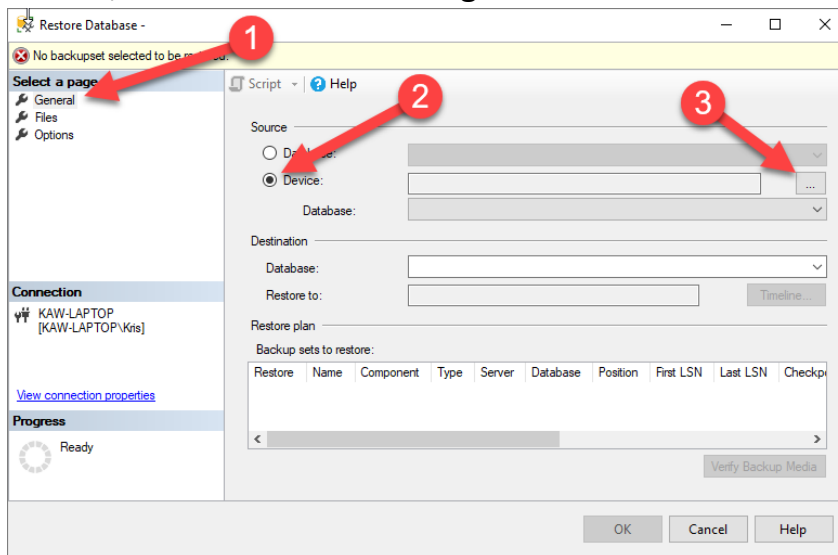

Restoring the Sample Databases

Now that we're connected to the database, we can attach the AdventureWorks2012 database. Attaching the database is SQL Server's way of opening and using the database.
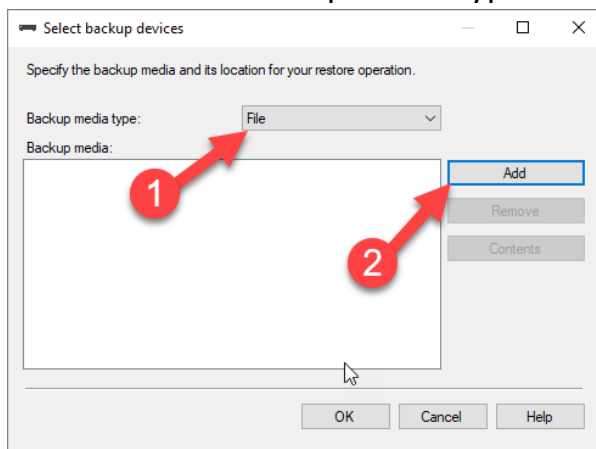
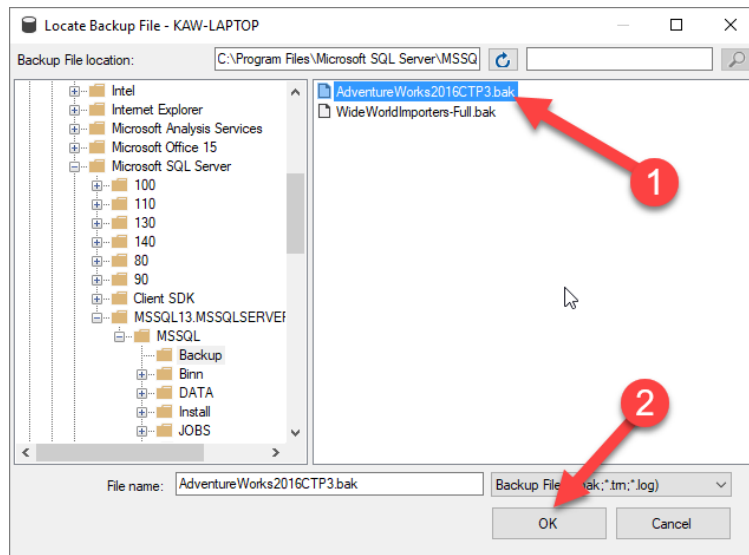☐ Right Click on the **Databases** folders and select **Restore Database...**

☐ Make sure you have selected **General**. Then click the **Device** radio button, and the **...** to the far right of it.
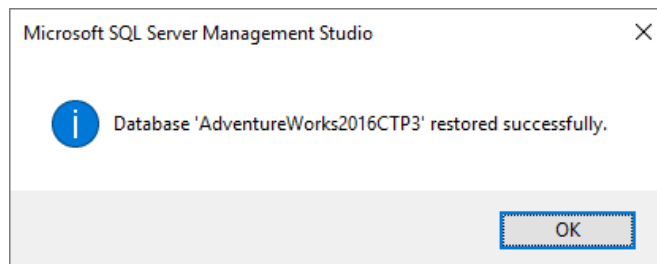

☐ Check that the Backup media type is **File**, then click **Add**

☐ Select the AdventureWorks backup file, then click **OK**.

☐ Continue to click **OK** to exit the various dialog boxes. Once you get to the Restore Databases dialog, click **OK** to start the restore process.

☐ Confirmation: If the restore is successful, you'll see the following:

☐ Now repeat the process for Wide World Importers.

We're all Done!

You are now ready to use SQL to explore and learn SQL.

I would recommend visiting my getting started page. It lists many of my articles you can do to learn the basics as well as more complex aspects of SQL.

I'm excited to have you as one of my readers. I really want to help you learn.
Please let me know what are some of the things about SQL that are confusing
you, so I can help.