



SQL Server Express 2017 Installation Guide

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Generally ...

This guide prepared for ITSS/MIS classes' .All this steps should be follow exactly.

If you do not get any problem during to installation you should be finish all tasks less than 30 minutes or less.

This installation only for Windows 8.0 or higher OS, if you are still using Windows XP or Windows7 unfortunately you need to upgrade your OS first and come back to this step.

SQL Server Express has limitations on database size, computing capacity, and available features, the core SQL engine is the same as with other SQL Server versions, and it provides for an easier install and a lighter load on your computer.

SQL Overview

SQL server is one of the larger utilized well know relational database developed by Microsoft and runs on Windows platform recently they are working on Linux platforms as well. There are several version of SQL available for different use case.

SQL server and its components are not our scope and will not teach in classroom however if you are interesting about more details here is the good documentation link to start;

<https://docs.microsoft.com/en-us/sql/sql-server/sql-server-technical-documentation?view=sql-server-2017>

Hardware and Software Requirements

- SQL Server Standard Edition Requirements
- Installations on Windows require at least 4GB of RAM, but preferably 8 GB and x64 processor only and 6 GB disk Space ;
- SQL Server Express edition Requirements
- Installations on Windows require at least 512MB of RAM, but preferably 1GB and x64 processor only and 2 GB disk Space.

- for more details ;
<https://docs.microsoft.com/en-us/sql/sql-server/install/hardware-and-software-requirements-for-installing-sql-server?view=sql-server-2017>

Other SQL Editions

This guide covers installation of the Express, which is suitable for most classes. Other versions of SQL such as Standard ,Enterprise and Web editions also available on Microsoft Image for your collection .

PART I

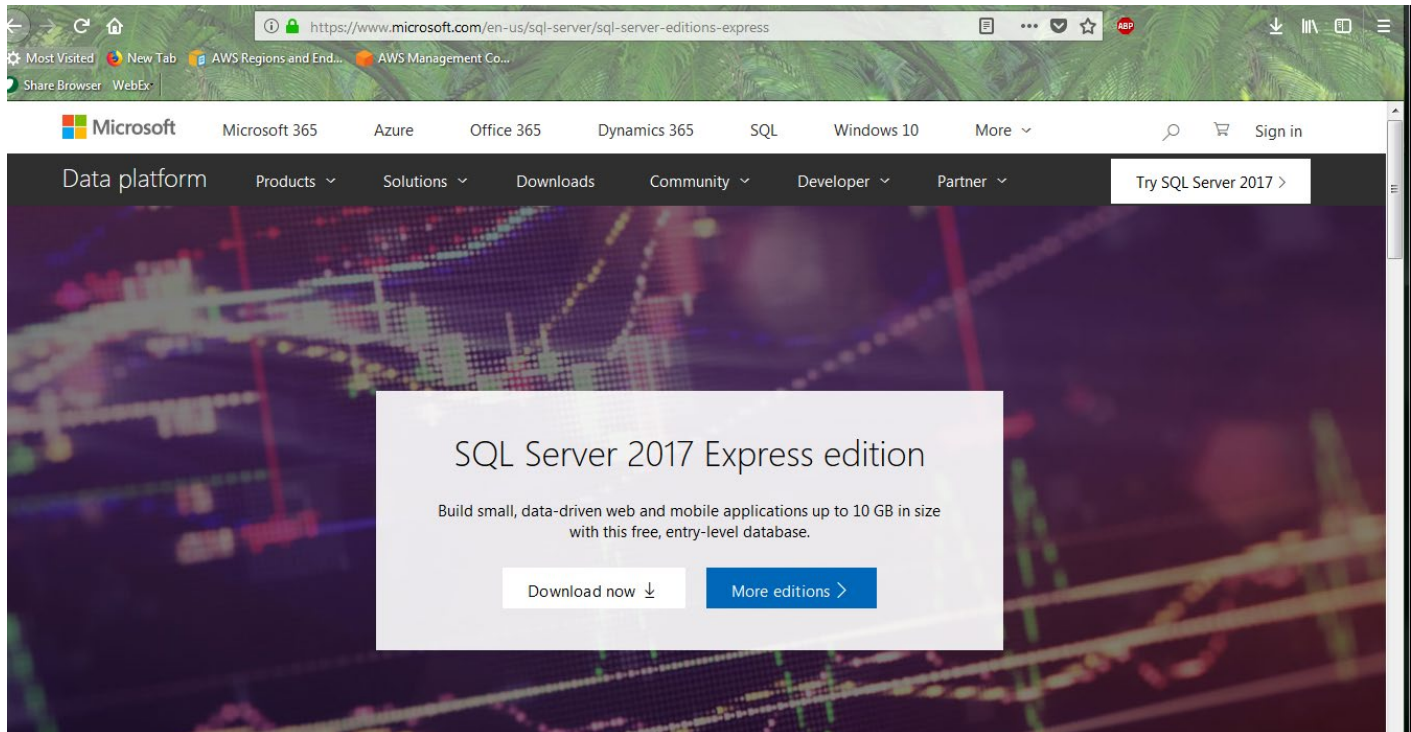
Downloading SQL Server 2017 Express Edition

This section guides you through downloading SQL Server Express from Microsoft's website.

Step 1: Accessing the URL

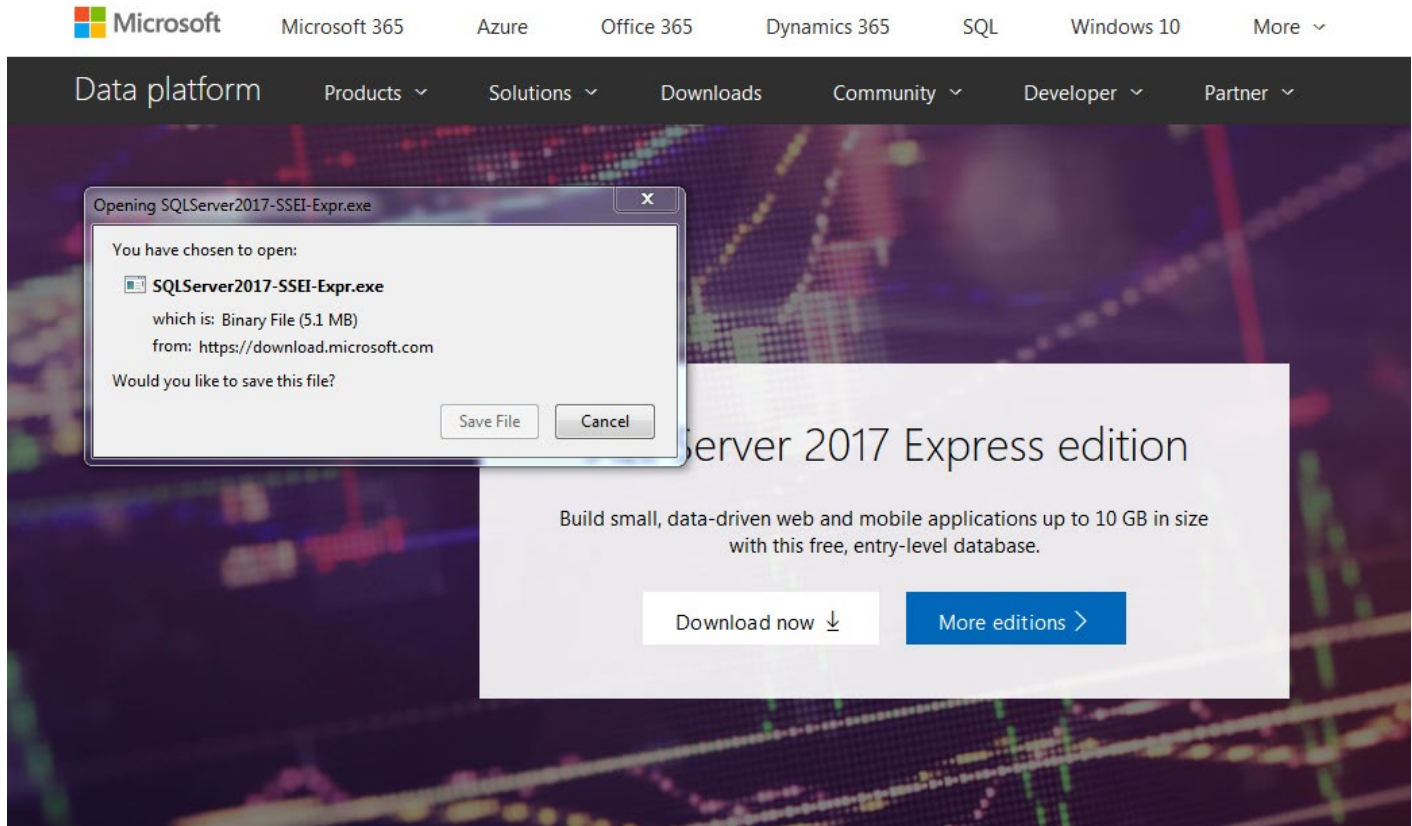
Browse to address <https://www.microsoft.com/en-us/sql-server/sql-server-editions-express> (or just search for "SQL Server Express 2017")

You should see screen similar to the following:



Step 2: Downloading the Installer

Click on the “Download” button, and you will see a screen similar to the following: During to preparation of this documentation SQL server 2017 Express edition was available.



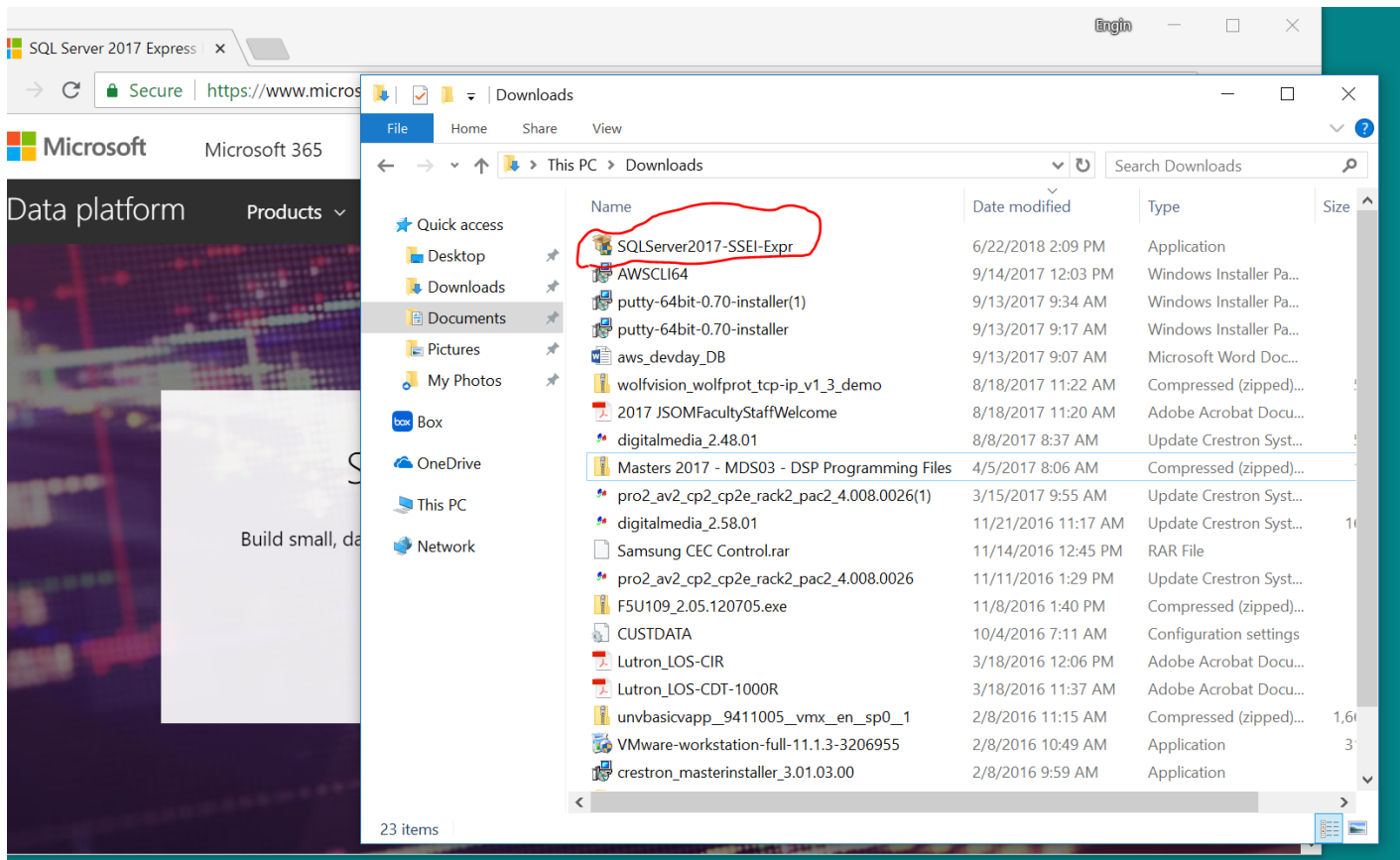
After the “Download Now” button pressed then the download file dialog should appear automatically. You can save the file any location, please do not forget location of file what you just saved for next step installation

Installing SQL Server 2017 Express Edition

Now that you've downloaded the installer, you'll need to execute it and follow the on-screen prompts to install SQL Server.

Step 3: Starting the Installer

I hope you remember location of the downloaded file ,many web browsers give the option of executing a recently downloaded file directly from the browser. If your browser gives you that option, that will likely be the quickest and easiest. For example, Google Chrome gives the option as illustrated below, and all that's needed is to click on the filename.

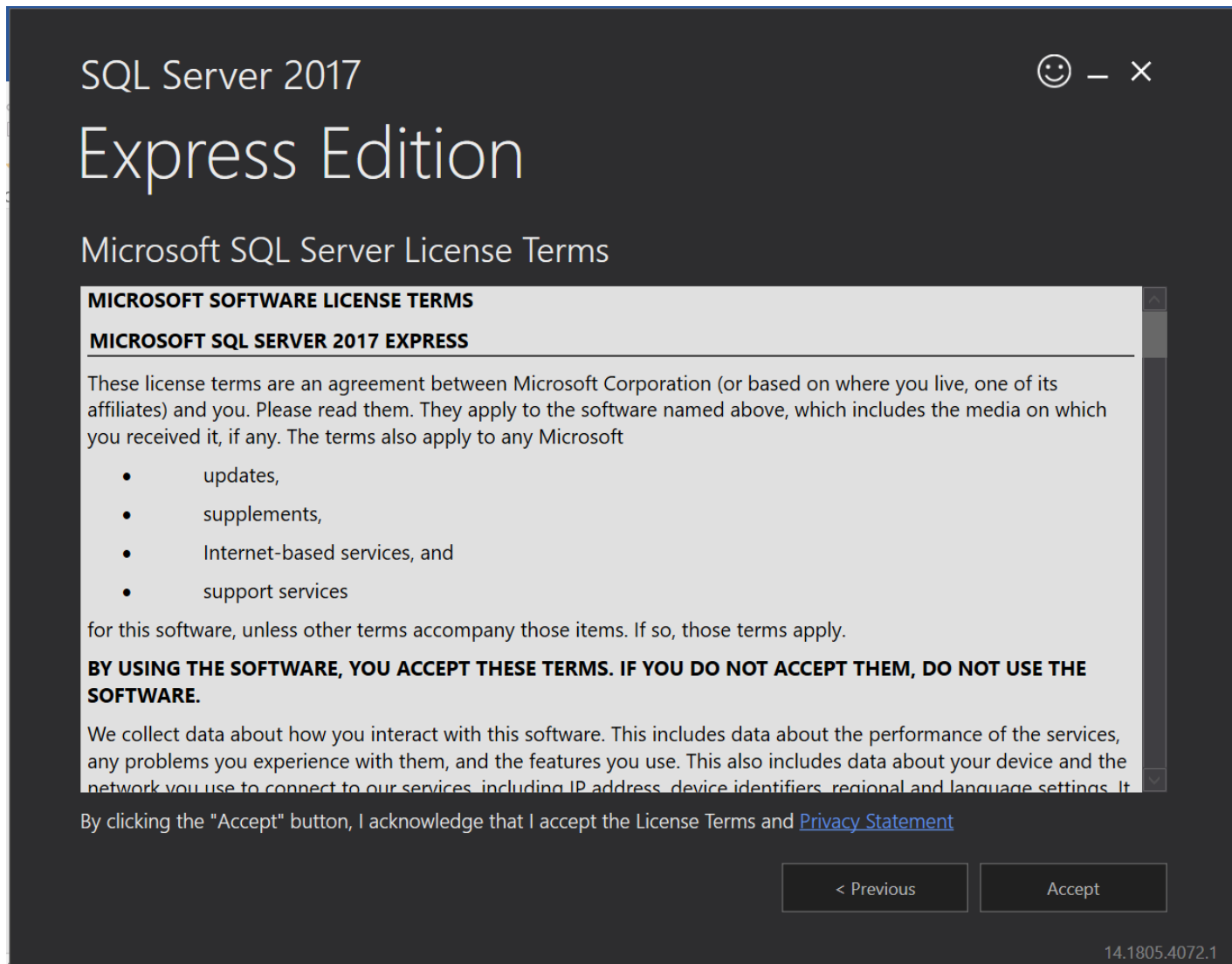


Step 4: Progressing Through the Installation Wizard

Right click to file and select run as a administrator option , the installer will display an installation wizard as something similar to the following:



Select "Basic" to install the default version of SQL Server. Next, accept the license terms.



The image shows a Windows-style dialog box titled "SQL Server 2017 Express Edition" with a subtitle "Microsoft SQL Server License Terms". The dialog contains the following text:

MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT SQL SERVER 2017 EXPRESS

These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft

- updates,
- supplements,
- Internet-based services, and
- support services

for this software, unless other terms accompany those items. If so, those terms apply.

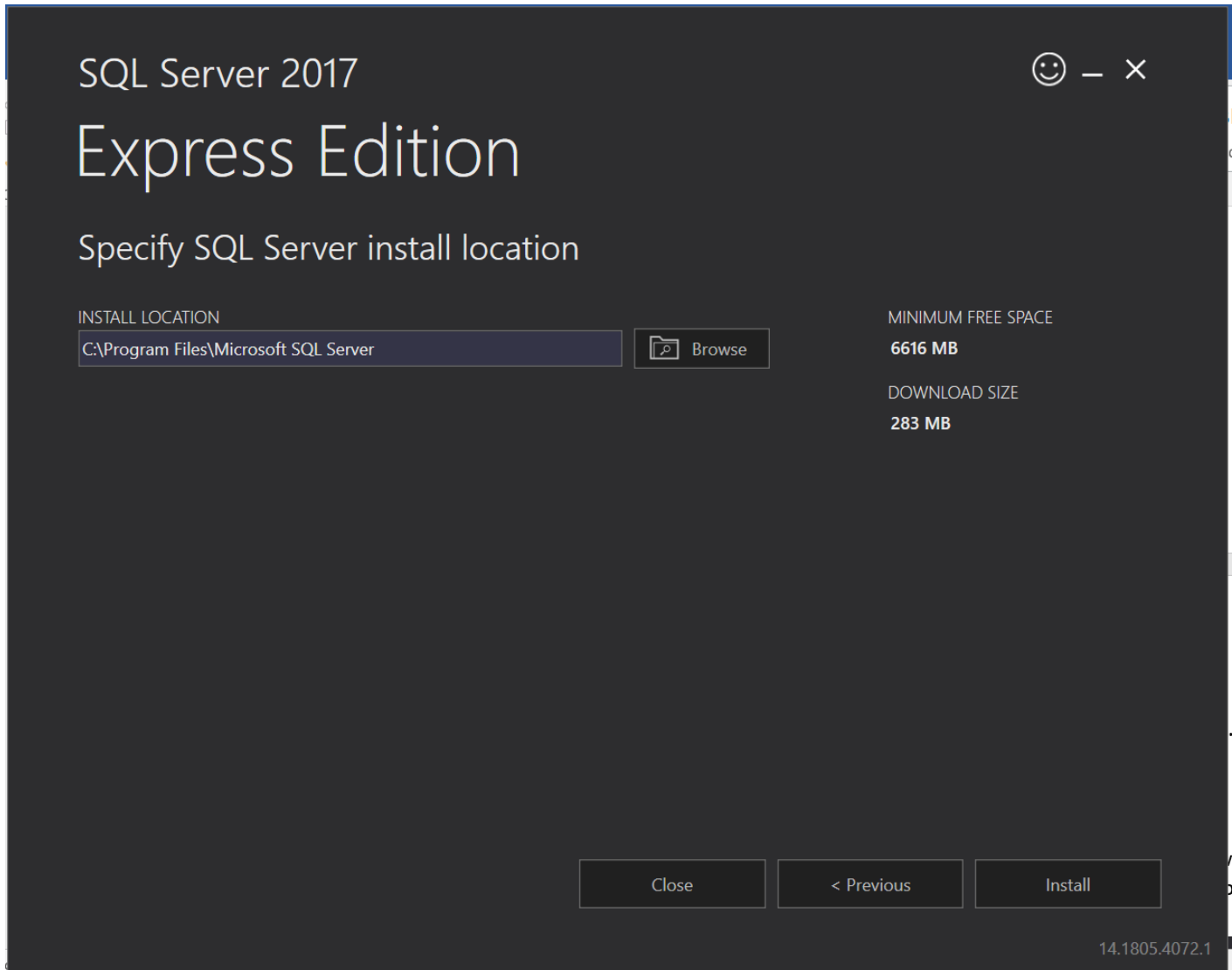
BY USING THE SOFTWARE, YOU ACCEPT THESE TERMS. IF YOU DO NOT ACCEPT THEM, DO NOT USE THE SOFTWARE.

We collect data about how you interact with this software. This includes data about the performance of the services, any problems you experience with them, and the features you use. This also includes data about your device and the network you use to connect to our services, including IP address, device identifiers, regional and language settings. It

By clicking the "Accept" button, I acknowledge that I accept the License Terms and [Privacy Statement](#)

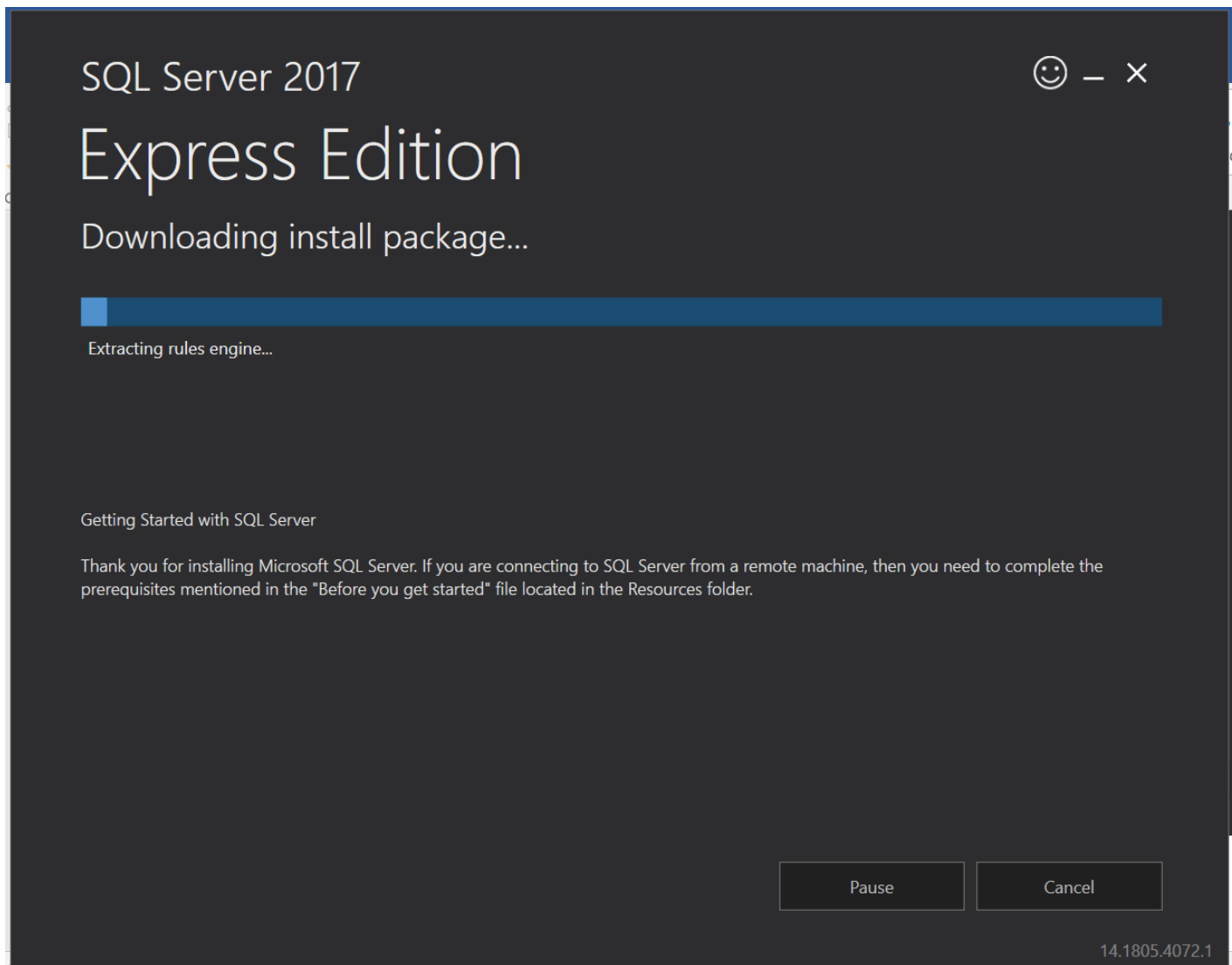
At the bottom, there are two buttons: "< Previous" and "Accept". The "Accept" button is highlighted. In the bottom right corner, the text "14.1805.4072.1" is visible.

The wizard will present a choice of install locations as shown in the following screenshot.

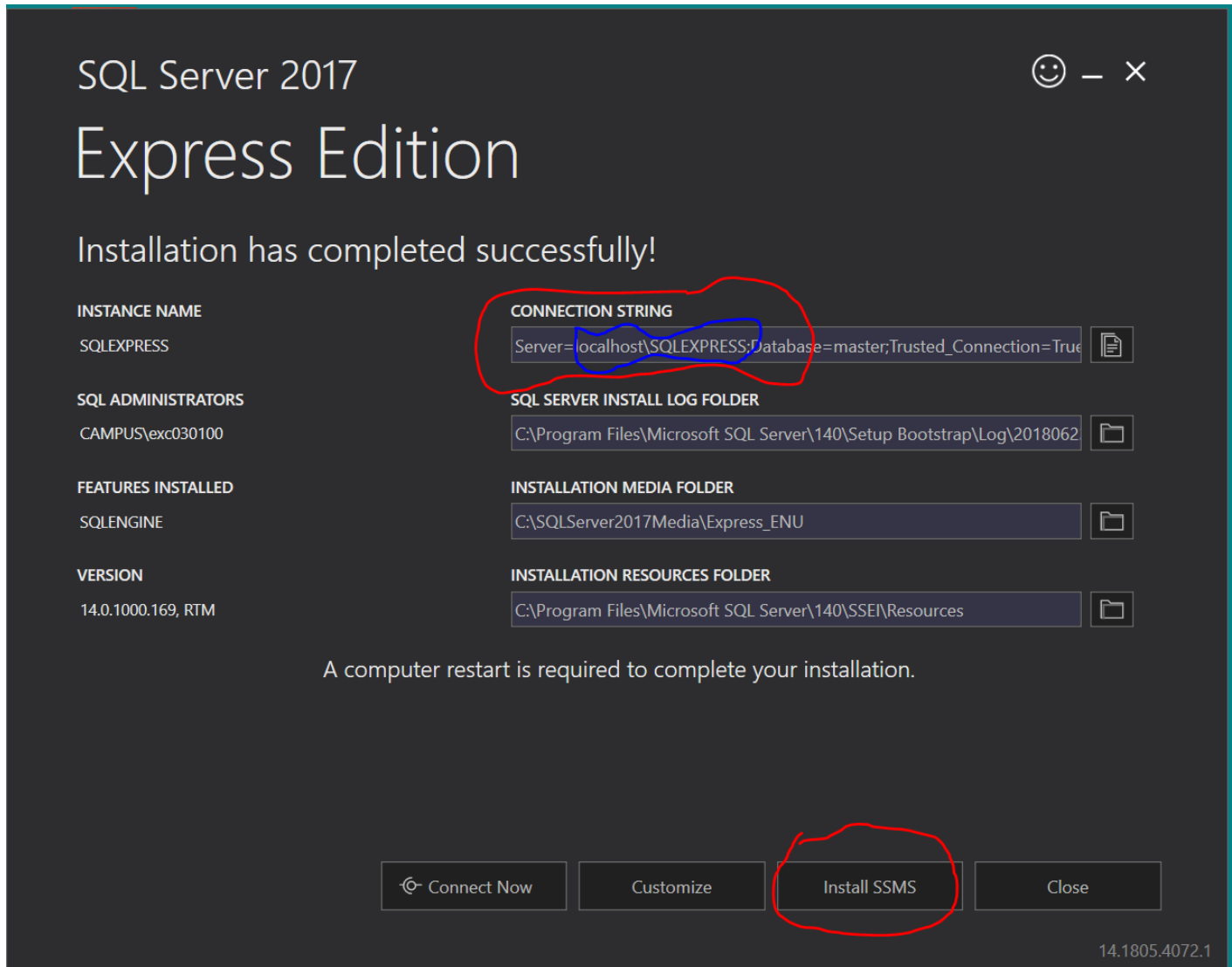


The default location is just fine, if you want to install different location please note the location of file for future steps or just click the “Install” button.

The installation process will appear right after the selection. You will see a progress window similar the following until the installation is complete.



When the installation is complete, you will see a window similar to the following.



You have successfully installed SQL Server Express at this point but ***you are not done yet please do not close the window!*** You'll still need the window to install SQL Server Management Studio. After the Installation of SSMS you can come get back to this screen and close it safely.

PART II

Installing SQL Server Management Studio (SSMS)

SQL Server developed in client-server architecture such as database itself is the server and interaction with the data and the capability to add, modify, delete, and access the data is required client functions.

Microsoft provides SQL Server Management Studio (SSMS) for client's management tools which you will install in this section. SSMS is very capable and provides many powerful conveniences and capabilities.

Step 1: Downloading SSMS

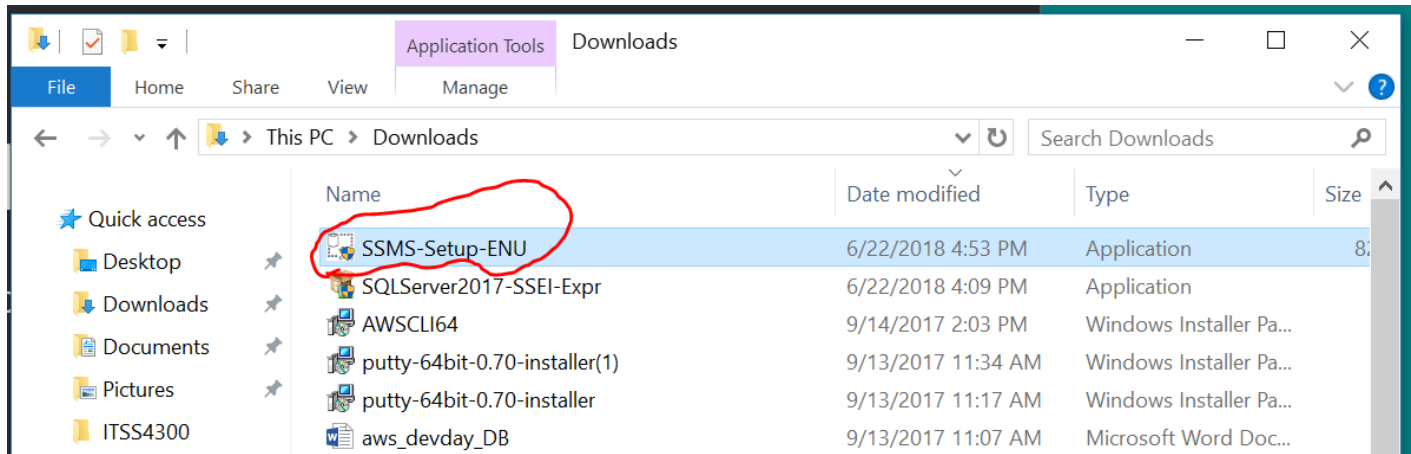
From previous installation (step 4), click the "Install tools" button. Doing so will open a download page in your web browser for SSMS, similar to the below or you can google SSMS usually first Microsoft link is the correct link whoever I also provided link for you for just in case you already close the installation

<https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-2017>

The screenshot shows a web browser window with two tabs: "SQL Server 2017 Express" and "Download SQL Server Management Studio (SSMS)". The address bar shows the URL: <https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-2017>. The page content includes a breadcrumb trail: "Docs / SQL / Tools / SQL Server Management Studio (SSMS)". A dropdown menu for "SQL Server 2017" is open, showing a list of links: "What is SSMS?", "Download SSMS" (highlighted), "SSMS Changelog & Previous Releases", "Release Notes", "Install non-English SSMS", "New and updated articles", "Install SQL Server Power Shell Module", "SQL Server Agent +", "F1 Help +", "Menu Help +", and "Object Explorer +". Below the menu is a "Download PDF" link. The main article title is "Download SQL Server Management Studio (SSMS)", dated 06/21/2018, with a 6-minute read time. It lists contributors and states "THIS TOPIC APPLIES TO: SQL Server, Azure SQL Database, Azure SQL Data Warehouse, and Parallel Data Warehouse". The article text describes SSMS as an integrated environment for managing SQL infrastructure and provides a link to "Download SQL Server Management Studio 17.8".

Click the "Download SQL Server Management Studio..." link to download its installer, and save

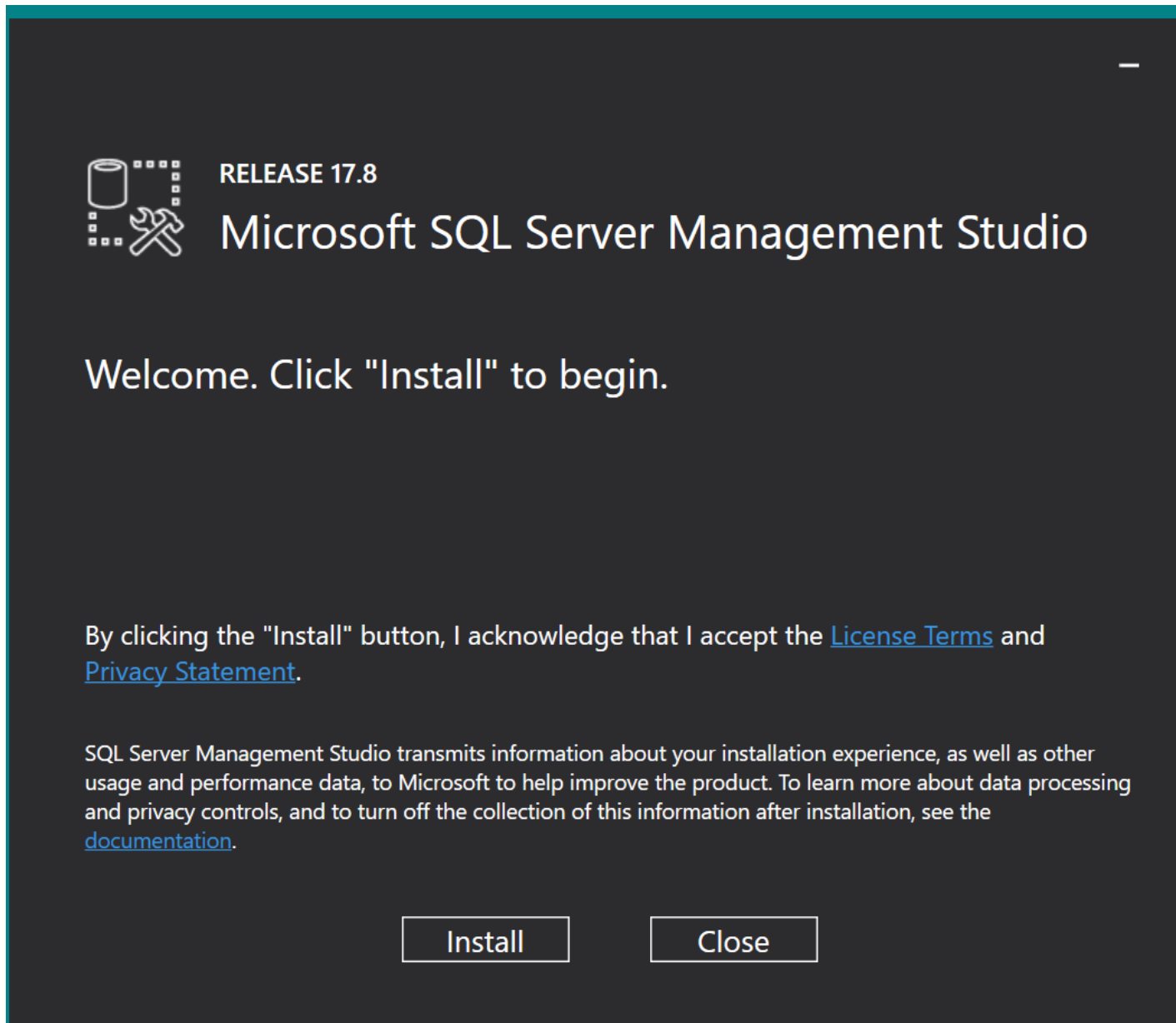
the file to a location you can remember again.



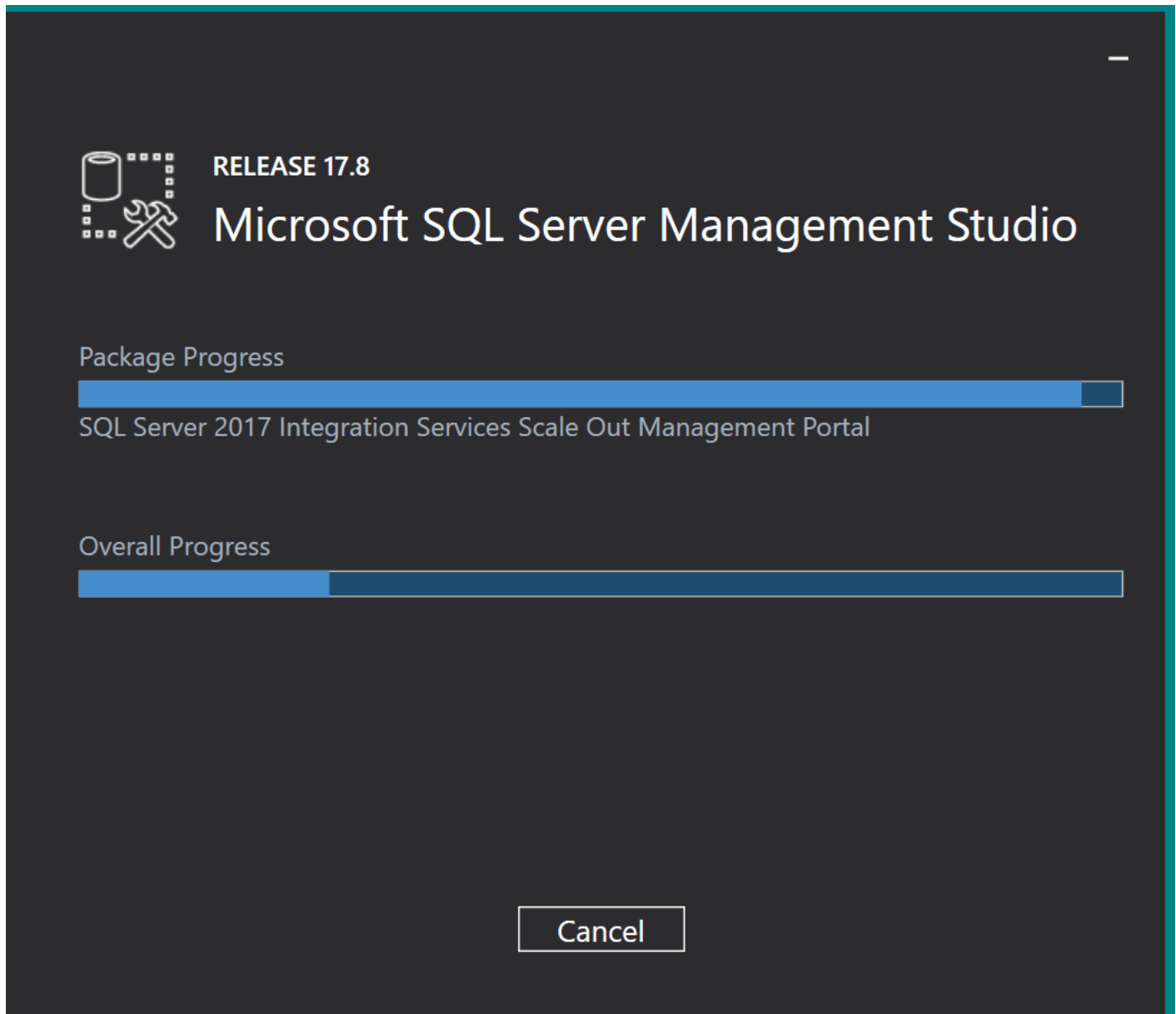
Step 2: Completing the SSMS Install

Once downloaded, run the SSMS installer from your browser, or directly by double clicking it in Windows Explorer. The first screen that appear is shown below. It is very straight forward installation and doesn't required any additional feedback from you.

Click the "Install" button to begin. A progress screen will appear similar to the following.



Let it progress through until completion, then you will see a screen indicating successful setup, similar to the below.





RELEASE 17.8

Microsoft SQL Server Management Studio

Setup Completed

All specified components have been installed successfully.

Close

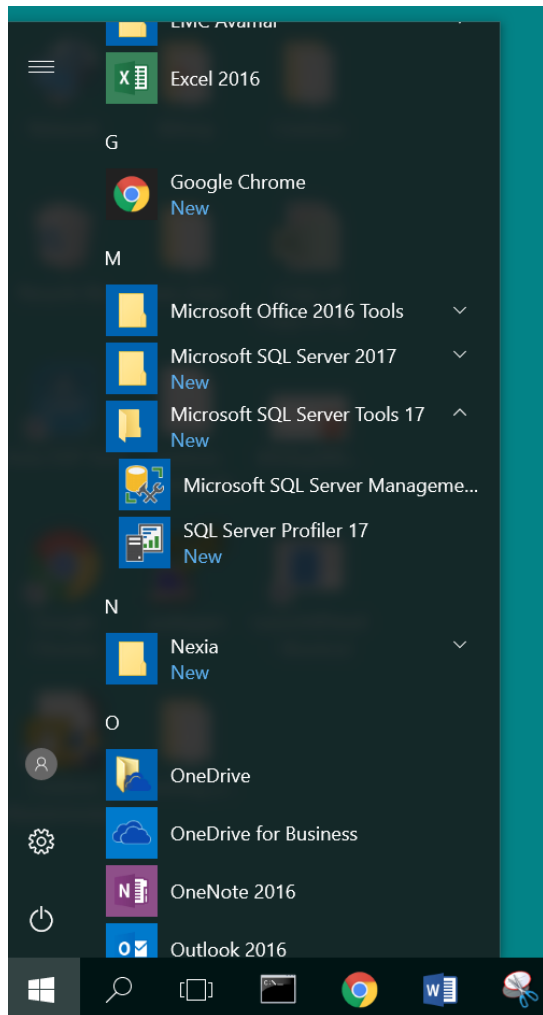
Congratulations! SSMS is now installed. You may now close this window, as well as the SQL Server Express installation Window from Part I ,Step 4.

Using your Database to Complete Assignments

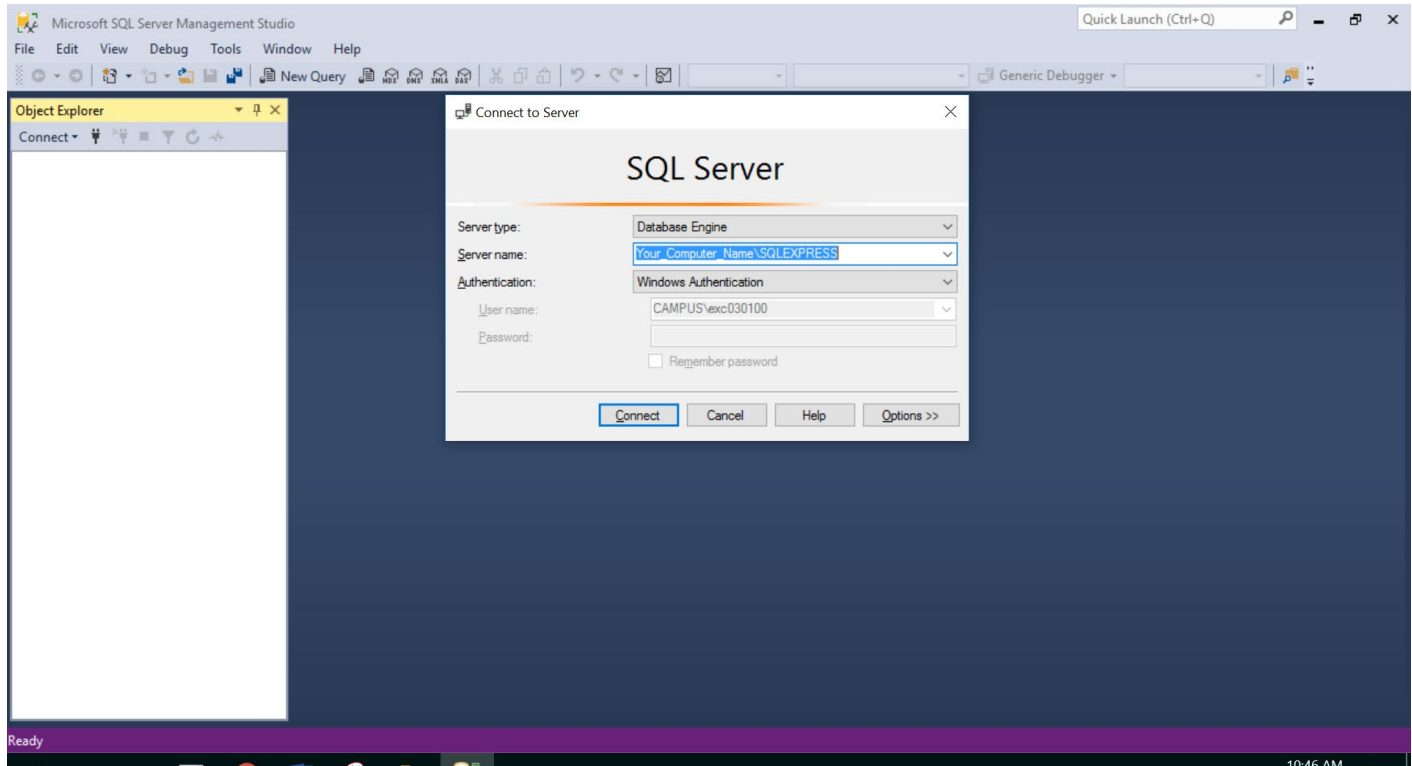
You have installed both SQL Server and SSMS. There are just a few more steps you need in order to start using your database to complete assignments -- connecting to your database and creating a database for assignments.

Step 7: Connecting to your Database

To do anything at all with your database, you must first connect to it. SSMS is accessible under All apps/Microsoft SQL Server 2017/Microsoft SQL Server Management Studio, as illustrated in the screenshot below.



Click on the icon to run SSMS. When SSMS first runs, it will ask you for the server name, as illustrated below.



Under “Local Servers”, expand “Database Engine” and select the SQL Server instance you just installed. It will be of the form **YourMachineName\SQLEXPRESS**, as illustrated below.

Click the “OK” button to fill in the server name, then click the “Connect” button to connect. After doing so, you will see a connection to your database on the left-hand side, under “Object Explorer”, similar to the below screenshot.

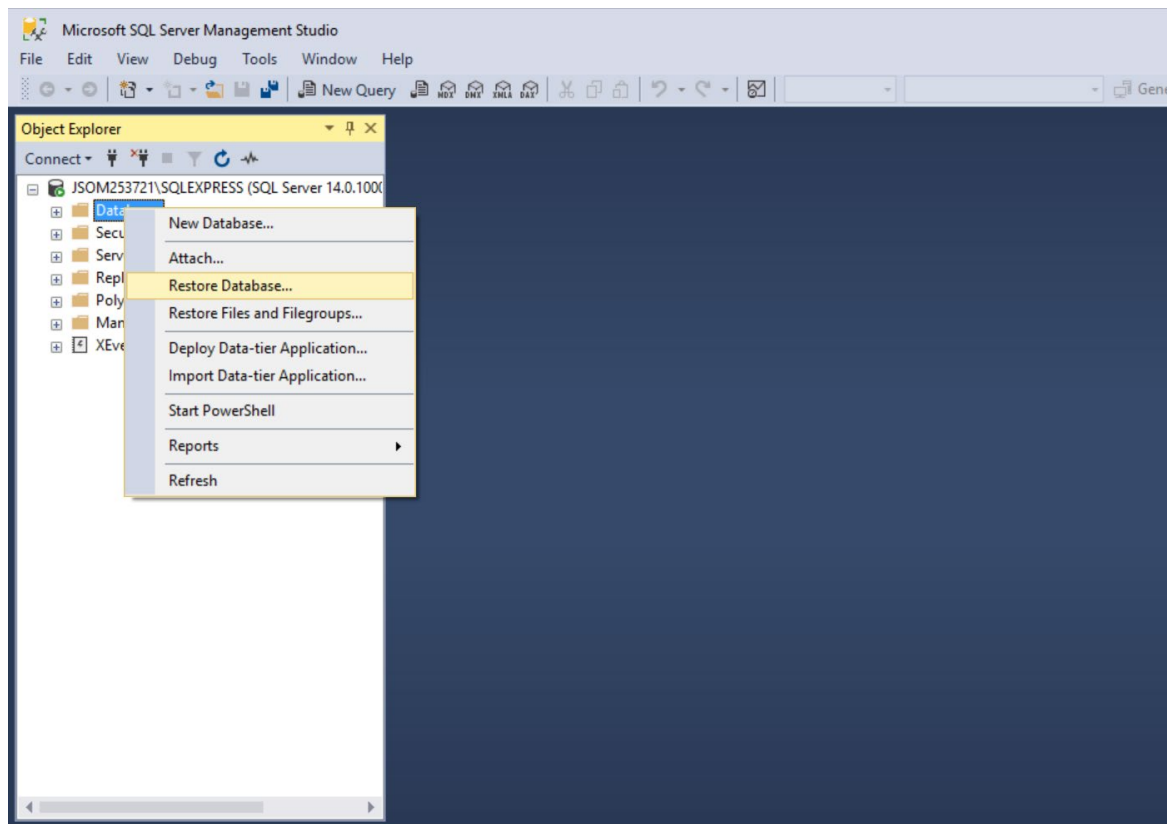
PART III

Restoring Practice SQL Database

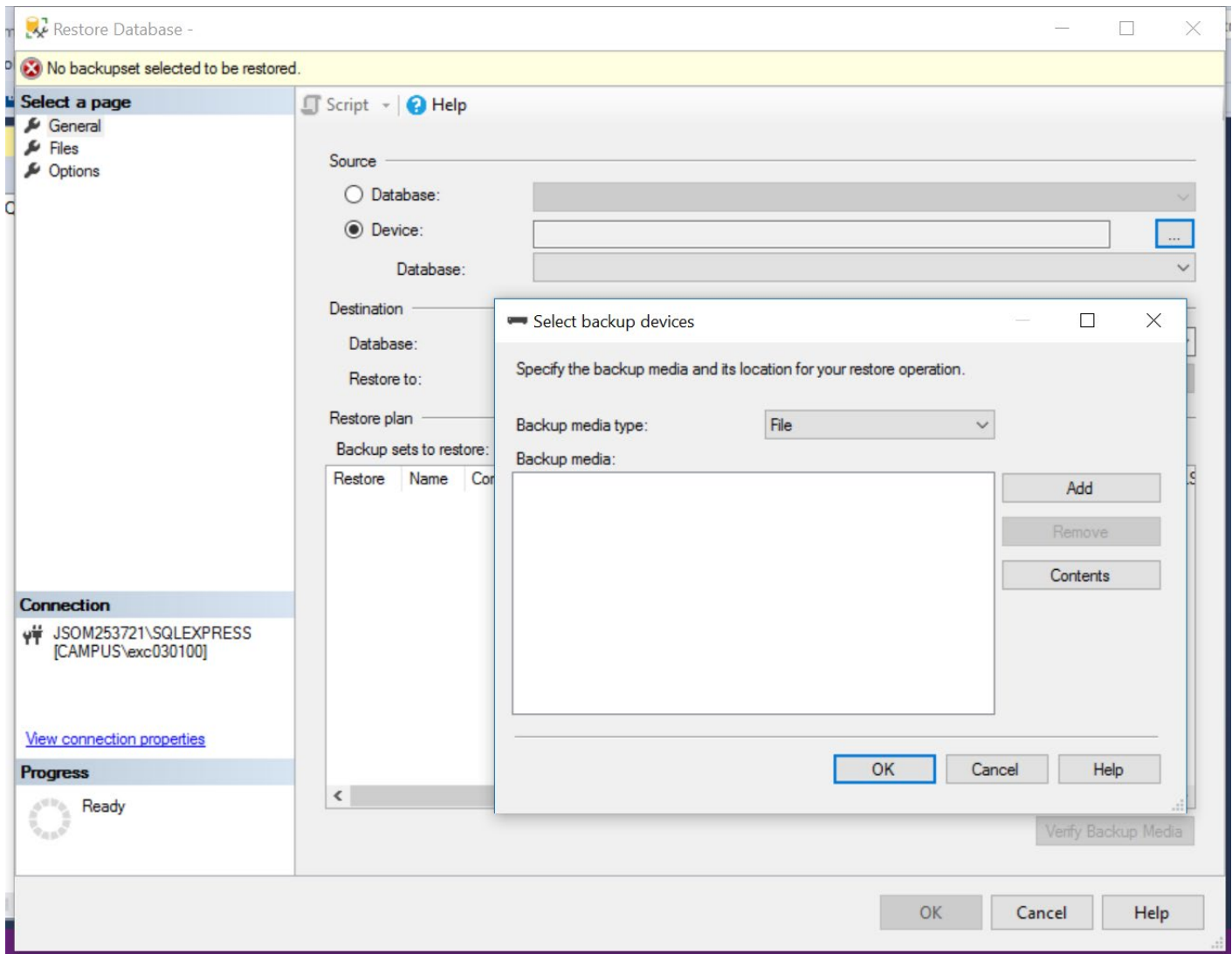
During to class lab time we are going to use practice database. Microsoft provides very useful database called “AdventureWorks2012” this database available in lab computers also. Please download this database from my web page to make sure all student uses same data set. Original web site has different versions and students get very confuse.

Go to Faculty web page (<http://jindal.utdallas.edu/~ecalisir>) and

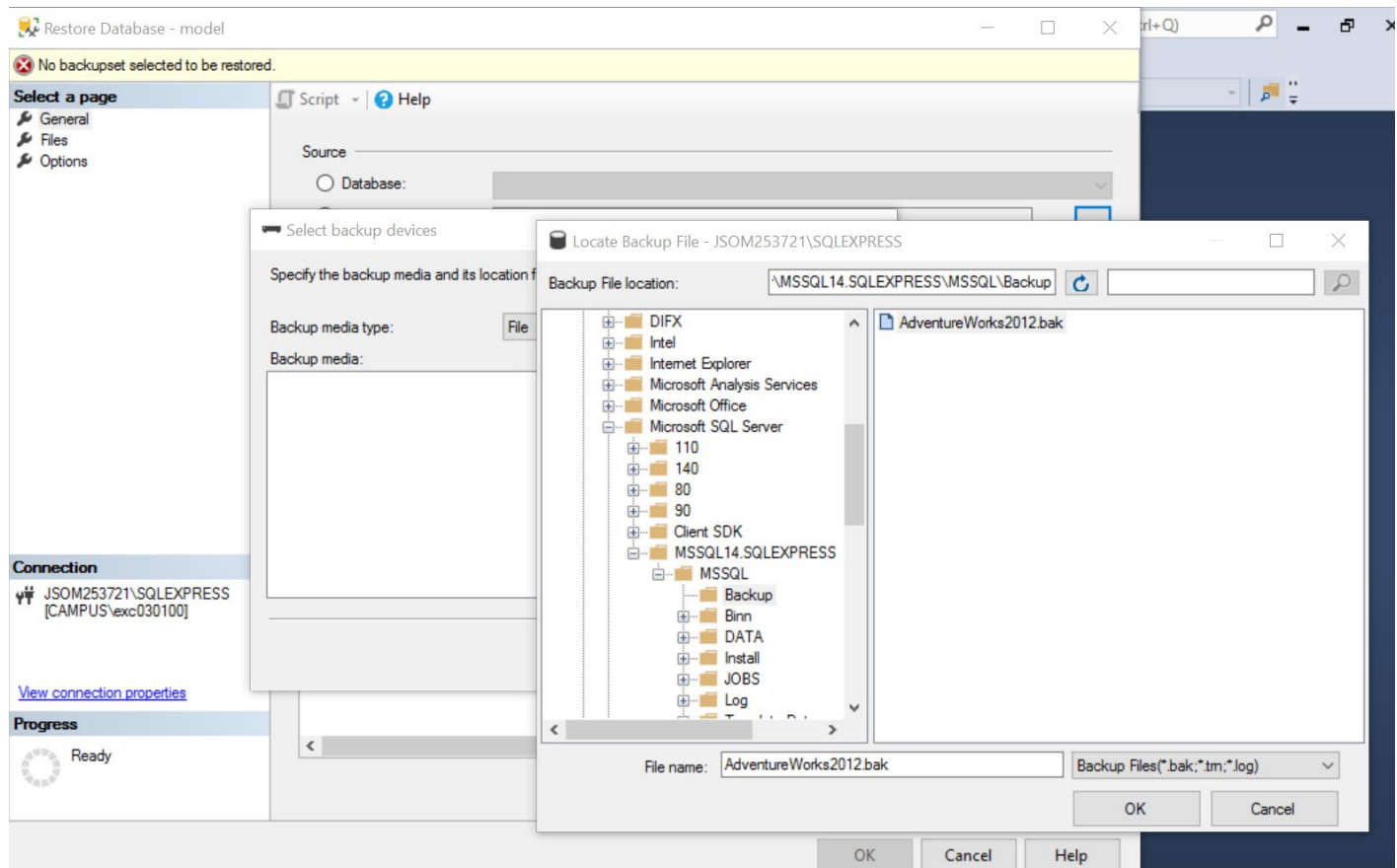
1. Download “AdventureWork2012.bak” file into your own computer under the below folder ;
2. C:\Program Files\Microsoft SQL Server\MSSQL14.SQLEXPRESS\MSSQL\Backup
3. And run SSMS
4. Login into SMMS
5. Go to database line left side of the screen under the object explorer and right click the database and select “Restore Database”



6. New Restore Database window will be appear ; from new window select Device Radio button and click blue square box on the right hand side as soon as when you click the square box another “select backup devices “ window will show up for file location.

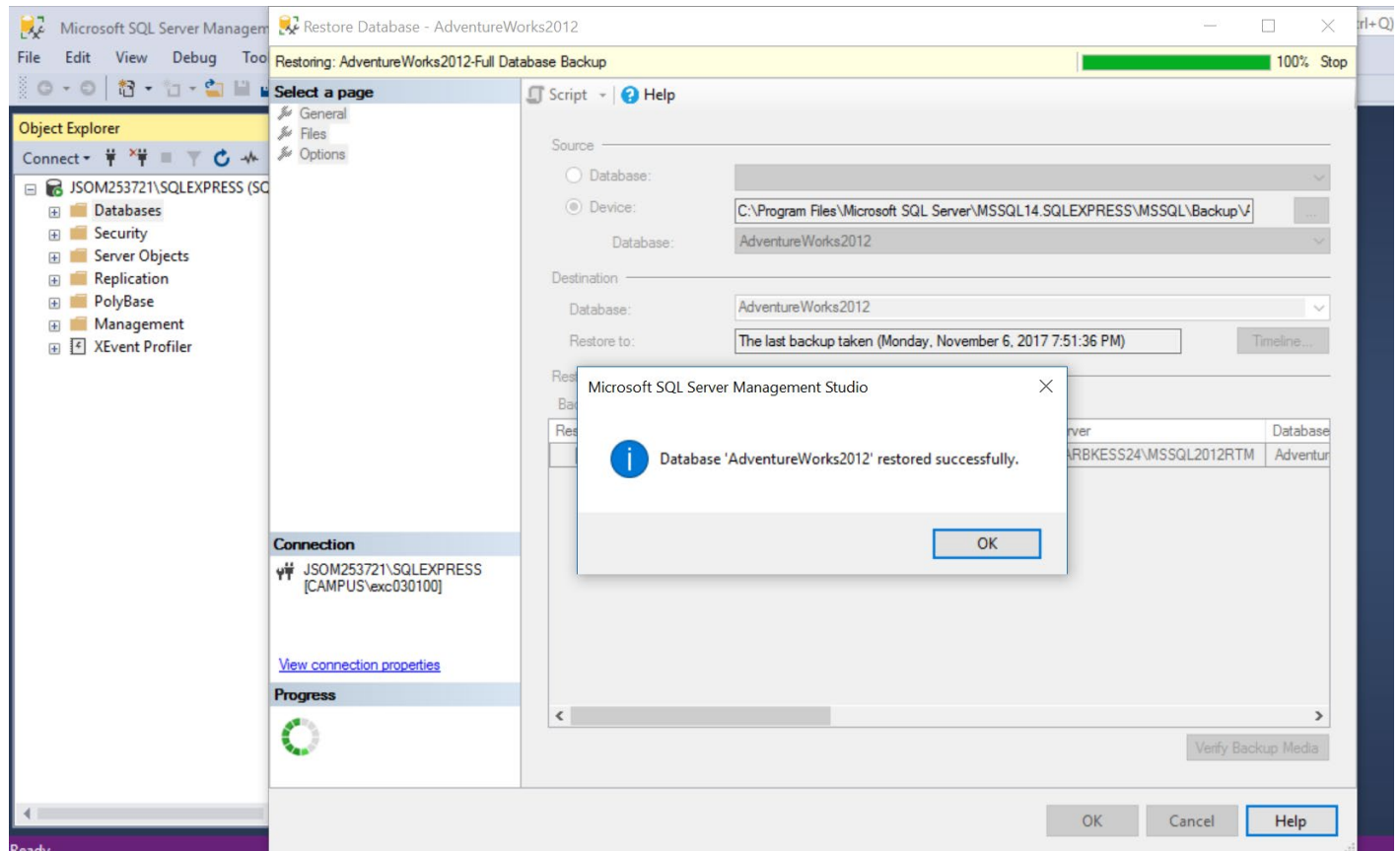


7. From new “select backup device” window, select “add “ option and file should be in there if you copied file in correct directory. From right section select “AdventureWorks2102.bak” file press OK



8. OK selection will you bring previous screen. Select Ok again.
9. Select one more time OK from “Restore Database “window.

10. You should have final installation complete message like this ;



Congrats you are ready for class. Please be aware about this process if you have problem with database instances and/or any kind of error you may need restore same database again again again...

Good luck.
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