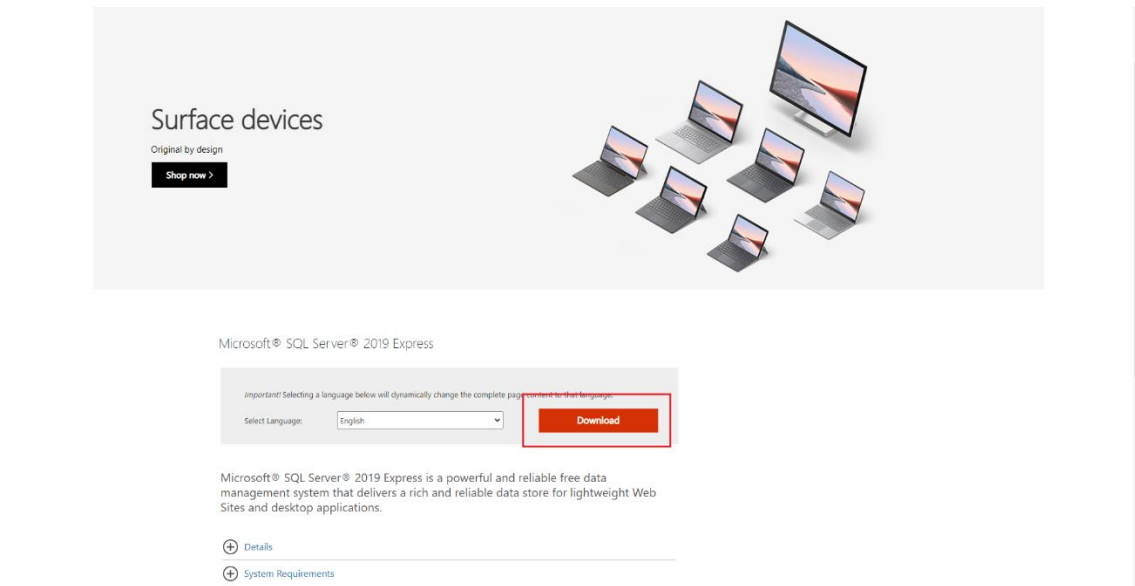



Installing SQL Server 2019 Express and SSMS

Download SQL Server 2019 on the link below

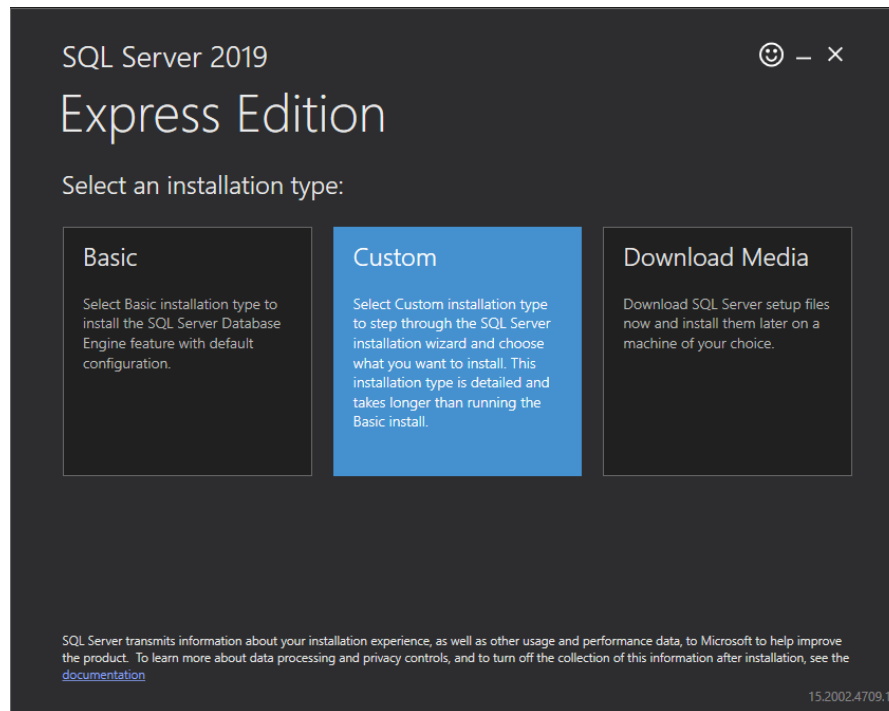
[Download Microsoft® SQL Server® 2019 Express from Official Microsoft Download Center](#)



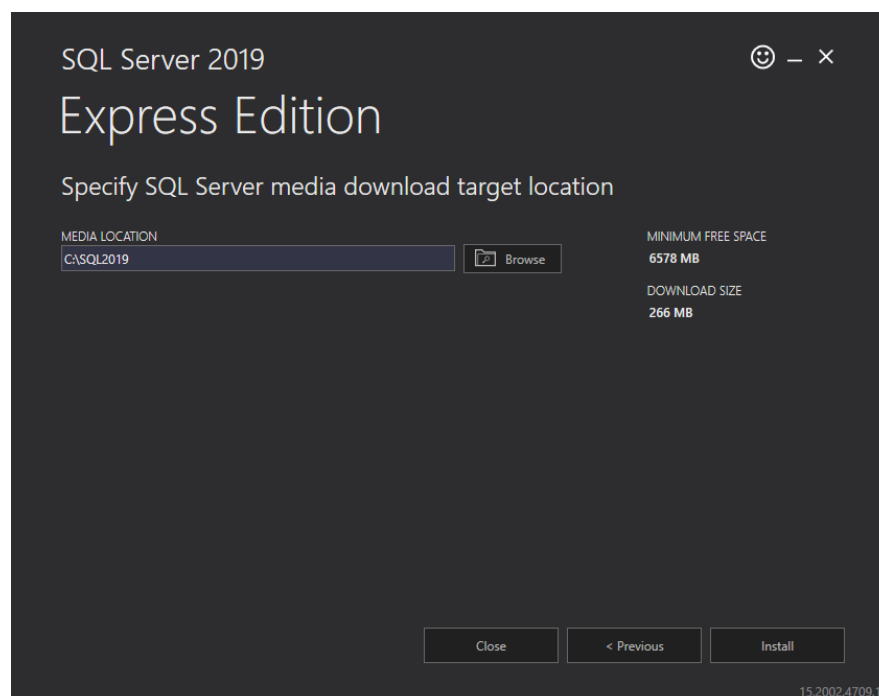
Run the installer (exe) file to install SQL Server 2019

 SQL2019-SSEI-Expr	8/27/2021 5:19 PM	Application	6,227 KB
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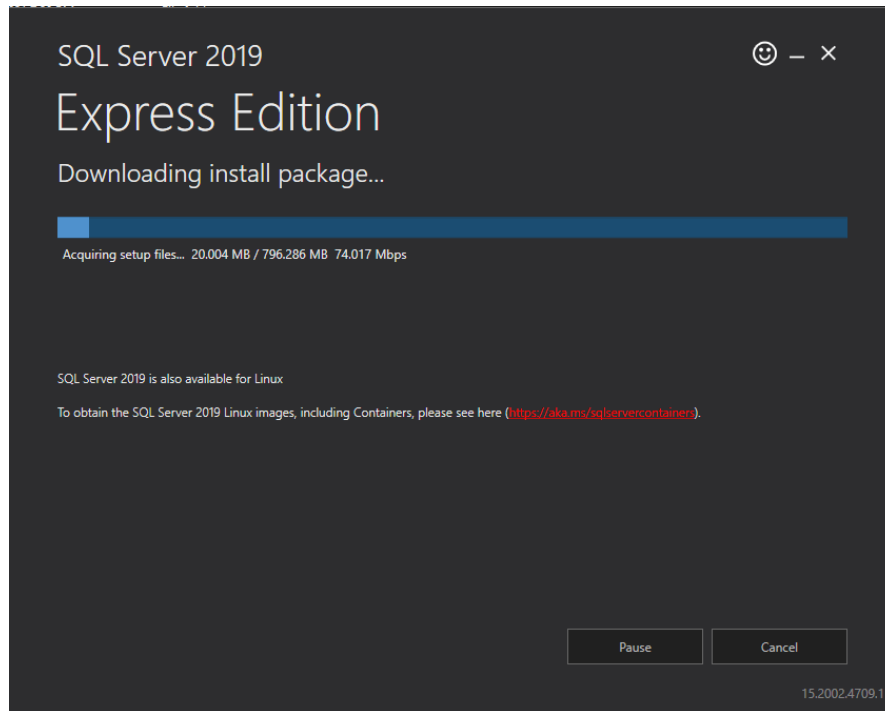
Click “Custom” Install.



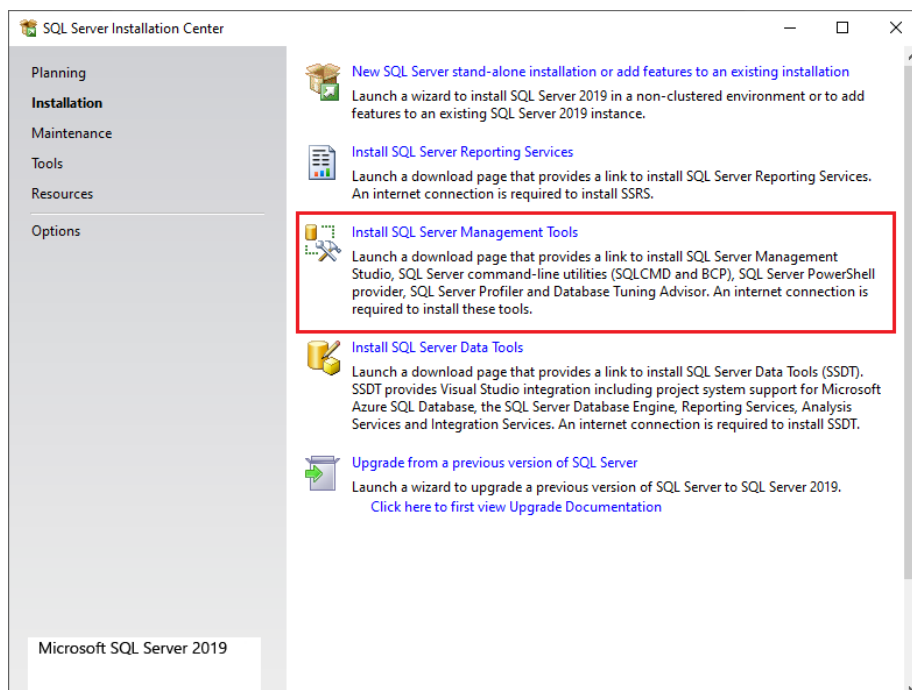
Browse which directory you will Install SQL Server 2019 and click “Install”.



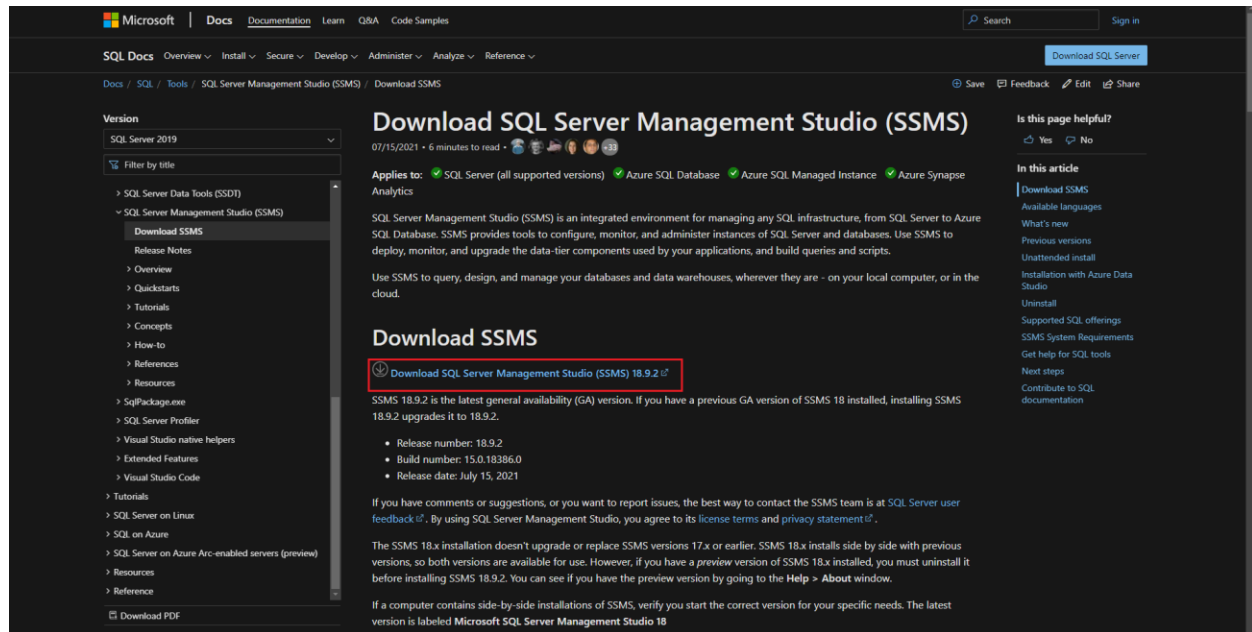
Wait for the download to finish.



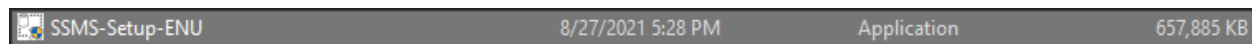
After downloading SQL Server Installation Center will open. First install SQL Server Management Tools.



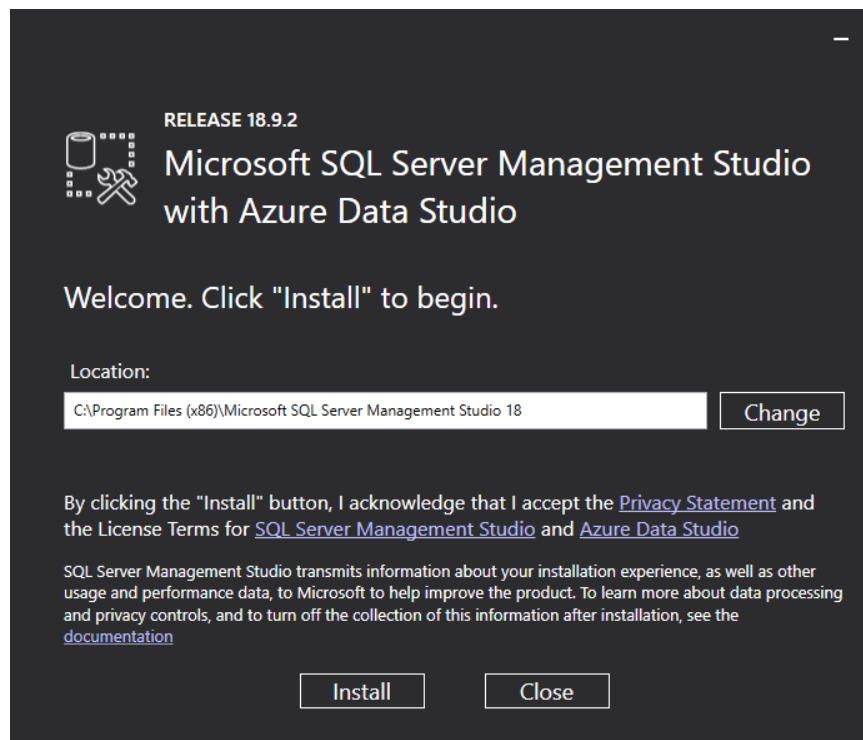
A new tab on your browser will open, download SQL Server Management Studio(SSMS)



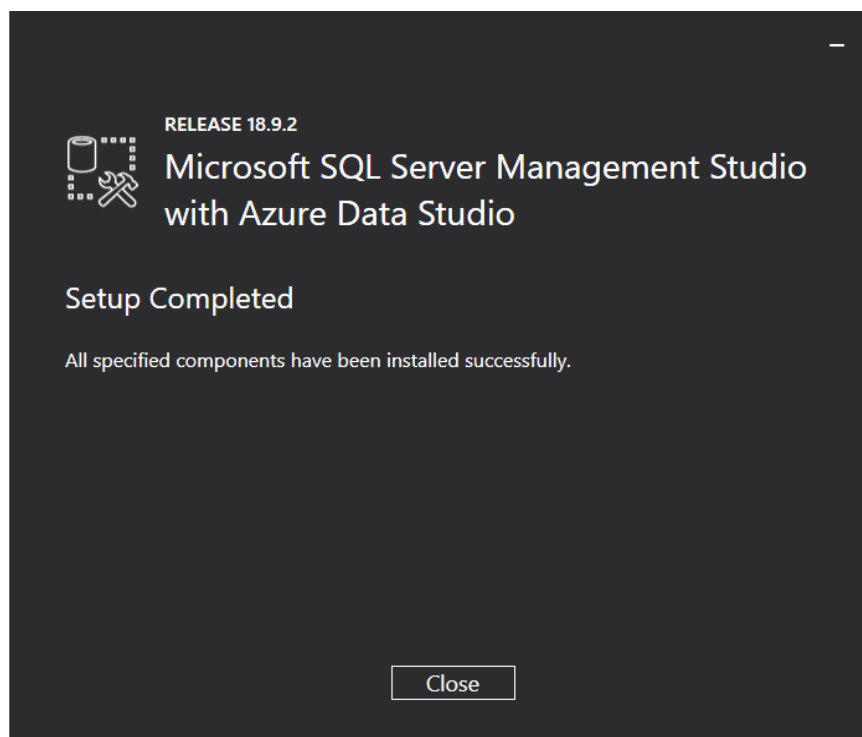
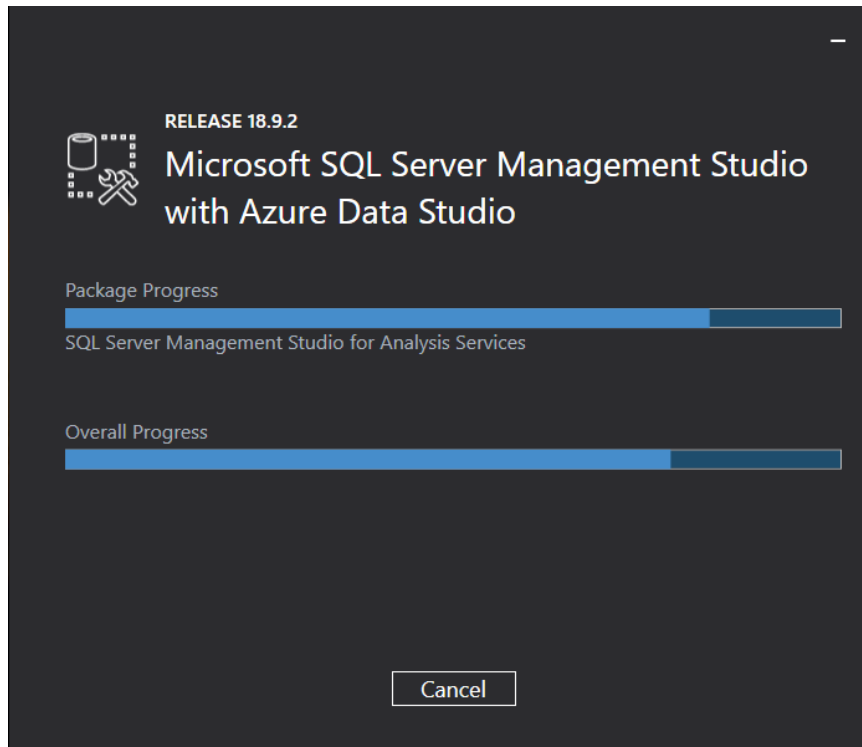
Once done downloading the installer, open the exe. File



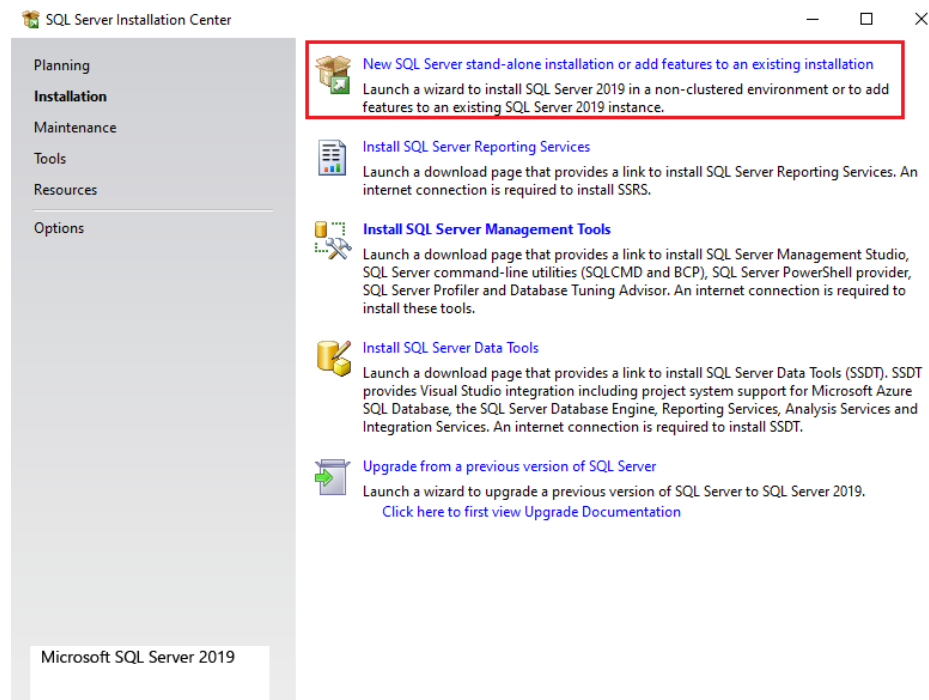
Locate installation folder and click install.



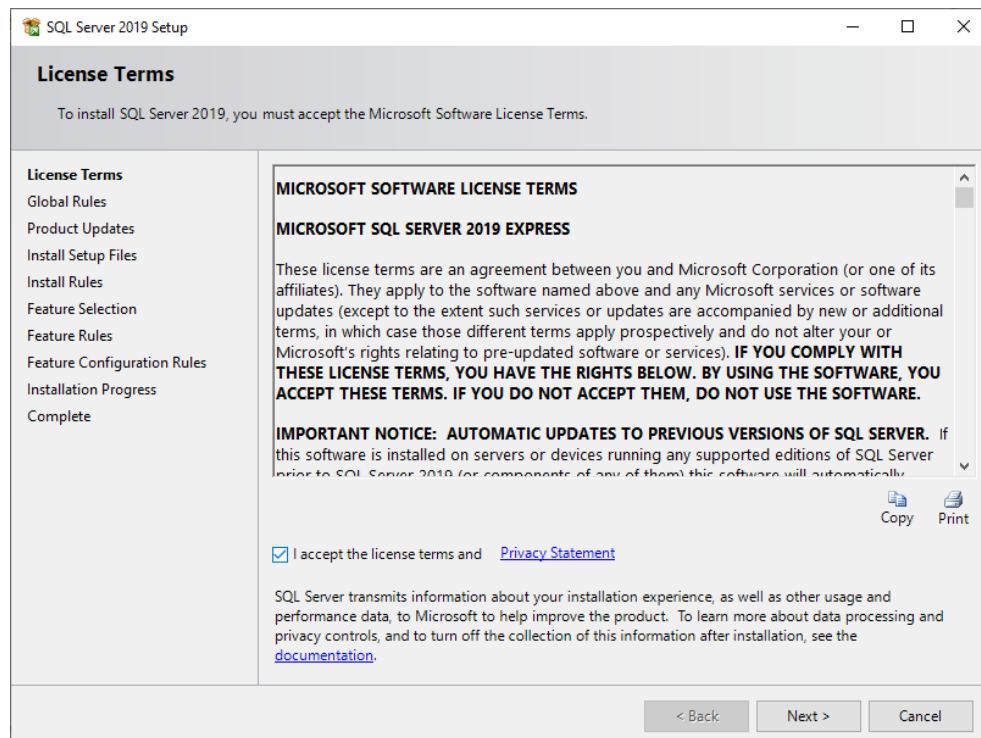
Wait for the installation to finish.



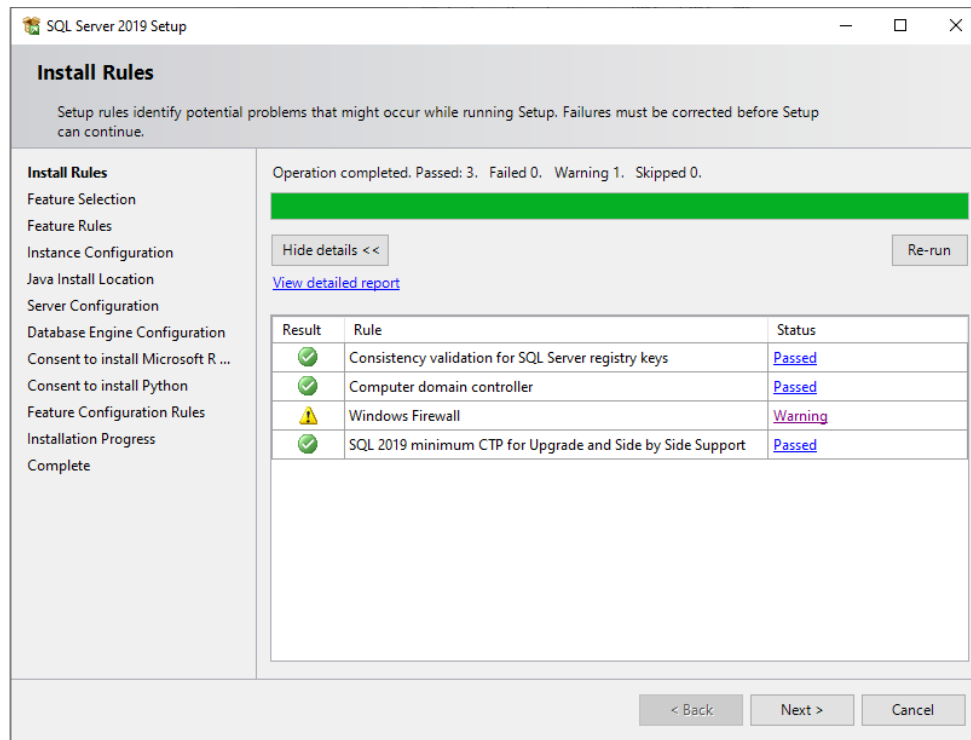
Once setup is complete, go back to SQL Server Installation Center and install SQL Server Stand-alone installation.



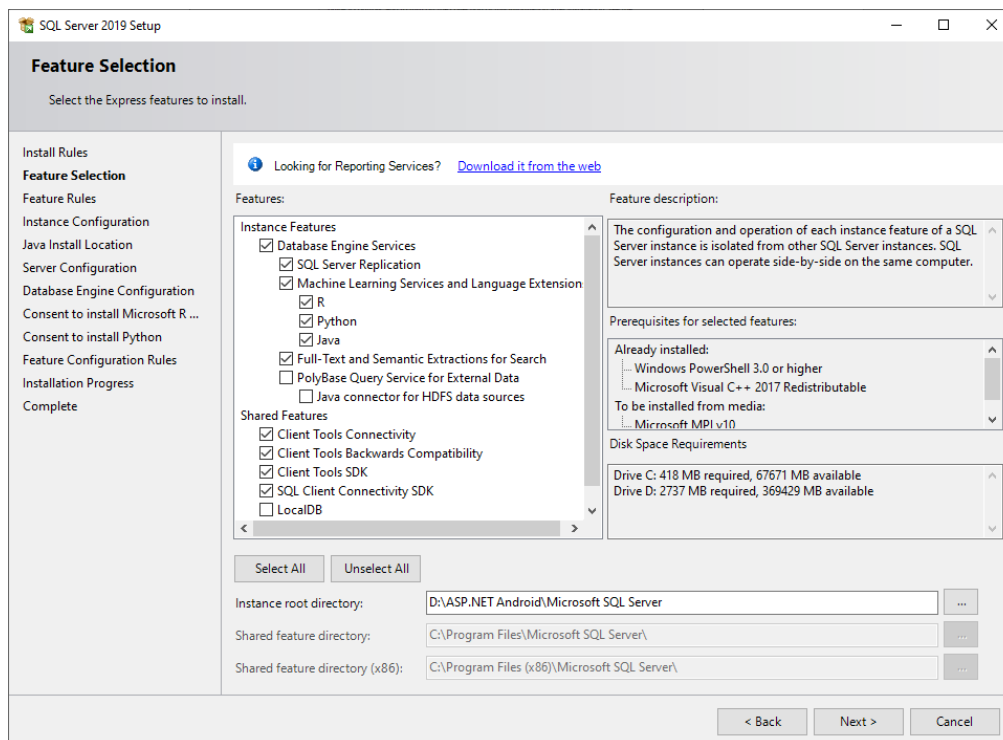
Accept License terms and Privacy Agreement.



Check if all Install Rules are Passed.



Check the features who are needed install. Copy the ones checked on the screenshot below.



Choose Default Instance.

The screenshot shows the 'Instance Configuration' window of the SQL Server 2019 Setup. The left sidebar lists various setup steps, with 'Instance Configuration' currently selected. The main area contains instructions to specify the instance name and ID. Two options are available: 'Default instance' (selected with a radio button) and 'Named instance' (with a text field containing 'MSSQLSERVER'). Below this, the 'Instance ID' is also set to 'MSSQLSERVER'. The 'SQL Server directory' is shown as 'D:\ASP.NET Android\Microsoft SQL Server\MSSQL15.MSSQLSERVER'. At the bottom, there is a table titled 'Installed instances' with columns for Instance Name, Instance ID, Features, Edition, and Version, which is currently empty. Navigation buttons '< Back', 'Next >', and 'Cancel' are at the bottom right.

SQL Server 2019 Setup

Instance Configuration

Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.

Install Rules
Feature Selection
Feature Rules
Instance Configuration
Java Install Location
Server Configuration
Database Engine Configuration
Consent to install Microsoft R ...
Consent to install Python
Feature Configuration Rules
Installation Progress
Complete

☒ Default instance
☐ Named instance: MSSQLSERVER

Instance ID: MSSQLSERVER

SQL Server directory: D:\ASP.NET Android\Microsoft SQL Server\MSSQL15.MSSQLSERVER

Installed instances:

Instance Name	Instance ID	Features	Edition	Version
---------------	-------------	----------	---------	---------

< Back Next > Cancel

Choose Install Open JRE 11.0.3.

The screenshot shows the 'Java Install Location' window of the SQL Server 2019 Setup. The left sidebar is the same as the previous window, with 'Java Install Location' selected. The main area explains that some features require a local JDK or JRE, and that Zulu Open JRE version 11.0.3 is included. It provides a link for licensing information. Two options are presented: 'Install Open JRE 11.0.3 included with this installation' (selected with a radio button) and 'Provide the location of a different version that has been installed on this computer' (with an empty text field and a 'Browse...' button). Navigation buttons '< Back', 'Next >', and 'Cancel' are at the bottom right.

SQL Server 2019 Setup

Java Install Location

Specify Java installed location

Install Rules
Feature Selection
Feature Rules
Instance Configuration
Java Install Location
Server Configuration
Database Engine Configuration
Consent to install Microsoft R ...
Consent to install Python
Feature Configuration Rules
Installation Progress
Complete

Some selected features require a local installation of a JDK or JRE. Zulu Open JRE version 11.0.3 is included with this installation, or you can download and install a different JDK or JRE and provide that installed location here.

For information on Azul Zulu OpenJDK third party licensing, see <https://go.microsoft.com/fwlink/?linkid=2097167>.

☒ Install Open JRE 11.0.3 included with this installation
☐ Provide the location of a different version that has been installed on this computer

JDK or JRE installed location: Browse...

< Back Next > Cancel

Choose default.

SQL Server 2019 Setup

Server Configuration

Specify the service accounts and collation configuration.

- Install Rules
- Feature Selection
- Feature Rules
- Instance Configuration
- Java Install Location
- Server Configuration**
- Database Engine Configuration
- Consent to install Microsoft R ...
- Consent to install Python
- Feature Configuration Rules
- Installation Progress
- Complete

Service Accounts | Collation

Microsoft recommends that you use a separate account for each SQL Server service.

Service	Account Name	Password	Startup Type
SQL Server Database Engine	NT Service\MSSQLSERVER		Automatic
SQL Server Launchpad	NT Service\MSSQLLaunchpad		Automatic
SQL Full-text Filter Daemon Launcher	NT Service\MSSQLFDLauncher		Manual
SQL Server Browser	NT AUTHORITY\LOCAL SERVICE		Disabled

☐ Grant Perform Volume Maintenance Task privilege to SQL Server Database Engine Service

This privilege enables instant file initialization by avoiding zeroing of data pages. This may lead to information disclosure by allowing deleted content to be accessed.

[Click here for details](#)

< Back

Next >

Cancel

Choose Mixed Mode. Enter password ex.(p@ssw0rd). **Please also note that you need to assign an Administrator account to make sure that no problems occur.** Make sure that the user account has admin/installation rights during the training.

The screenshot shows the 'Database Engine Configuration' window in the SQL Server 2019 Setup. The window has a title bar 'SQL Server 2019 Setup' and standard window controls. Below the title bar is a header 'Database Engine Configuration' with a subtitle 'Specify Database Engine authentication security mode, administrators, data directories, TempDB, Max degree of parallelism, Memory limits, and Filestream settings.' On the left is a navigation pane with the following items: 'Install Rules', 'Feature Selection', 'Feature Rules', 'Instance Configuration', 'Java Install Location', 'Server Configuration', 'Database Engine Configuration' (highlighted), 'Consent to install Microsoft R ...', 'Feature Configuration Rules', 'Installation Progress', and 'Complete'. The main area has tabs: 'Server Configuration' (selected), 'Data Directories', 'TempDB', 'Memory', 'User Instances', and 'FILESTREAM'. Under the 'Server Configuration' tab, the instruction is 'Specify the authentication mode and administrators for the Database Engine.' The 'Authentication Mode' section has two radio buttons: 'Windows authentication mode' and 'Mixed Mode (SQL Server authentication and Windows authentication)' (selected). Below this is the instruction 'Specify the password for the SQL Server system administrator (sa) account.' with two password fields: 'Enter password:' and 'Confirm password:', both containing masked characters. The 'Specify SQL Server administrators' section has a list box containing 'DESKTOP-AEN04TL\Rojen Abuyen (Rojen Abuyen)'. To the right of the list box is a text box stating 'SQL Server administrators have unrestricted access to the Database Engine.' Below the list box are three buttons: 'Add Current User', 'Add...', and 'Remove'. At the bottom right are three buttons: '< Back', 'Next >', and 'Cancel'.

SQL Server 2019 Setup

Database Engine Configuration

Specify Database Engine authentication security mode, administrators, data directories, TempDB, Max degree of parallelism, Memory limits, and Filestream settings.

Install Rules
Feature Selection
Feature Rules
Instance Configuration
Java Install Location
Server Configuration
Database Engine Configuration
Consent to install Microsoft R ...
Feature Configuration Rules
Installation Progress
Complete

Server Configuration | Data Directories | TempDB | Memory | User Instances | FILESTREAM

Specify the authentication mode and administrators for the Database Engine.

Authentication Mode

☐ Windows authentication mode

☒ Mixed Mode (SQL Server authentication and Windows authentication)

Specify the password for the SQL Server system administrator (sa) account.

Enter password: [masked]

Confirm password: [masked]

Specify SQL Server administrators

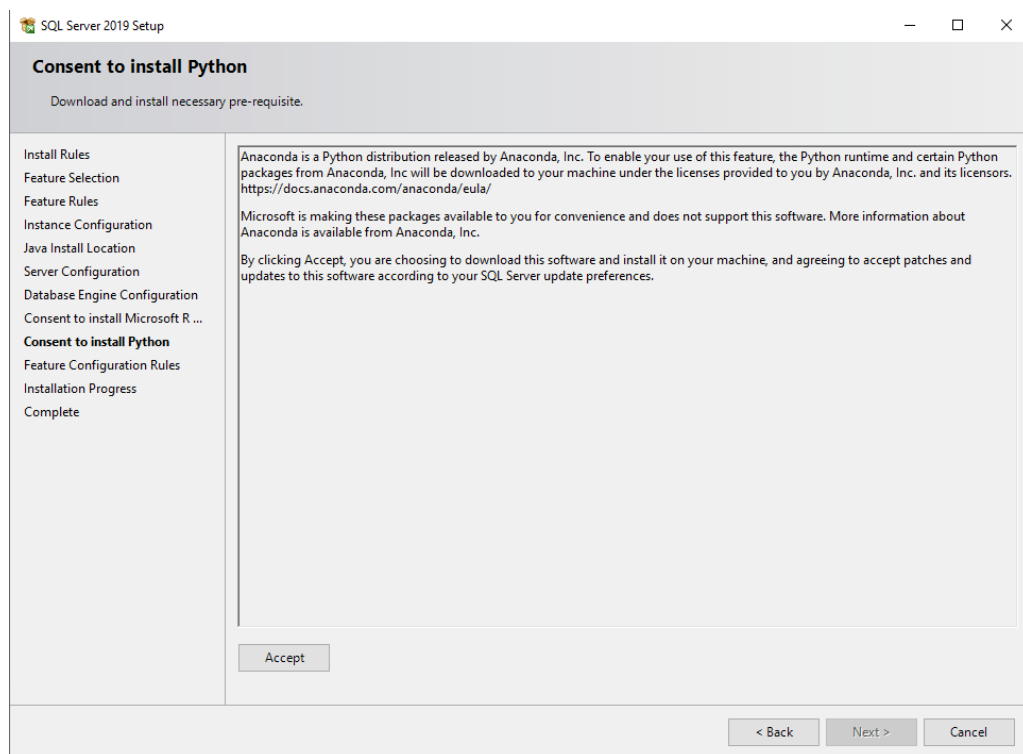
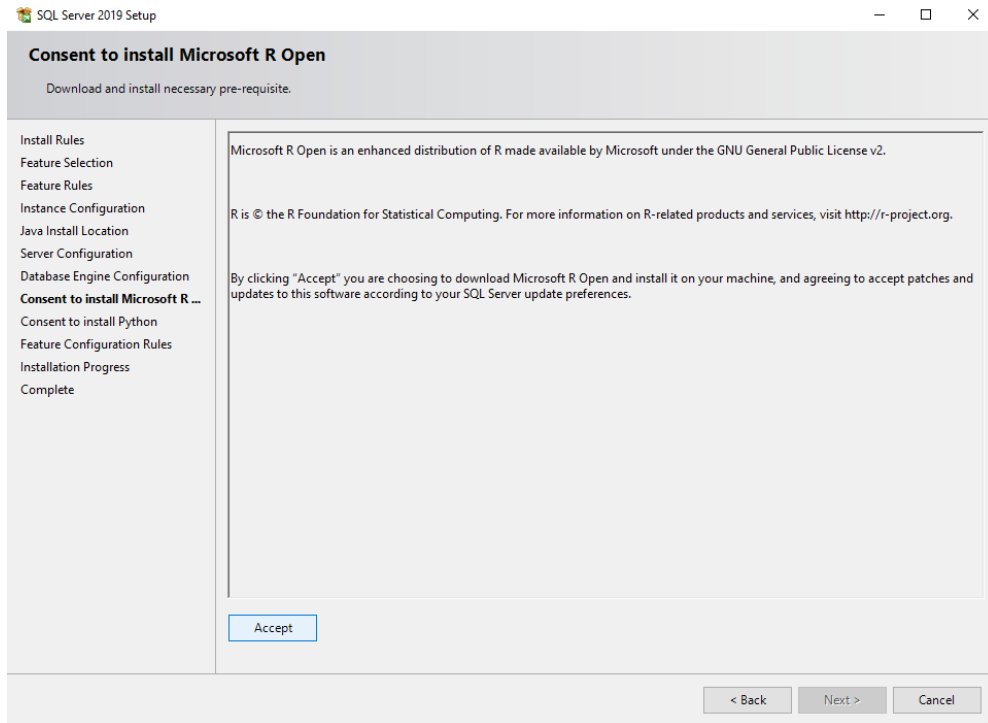
DESKTOP-AEN04TL\Rojen Abuyen (Rojen Abuyen)

SQL Server administrators have unrestricted access to the Database Engine.

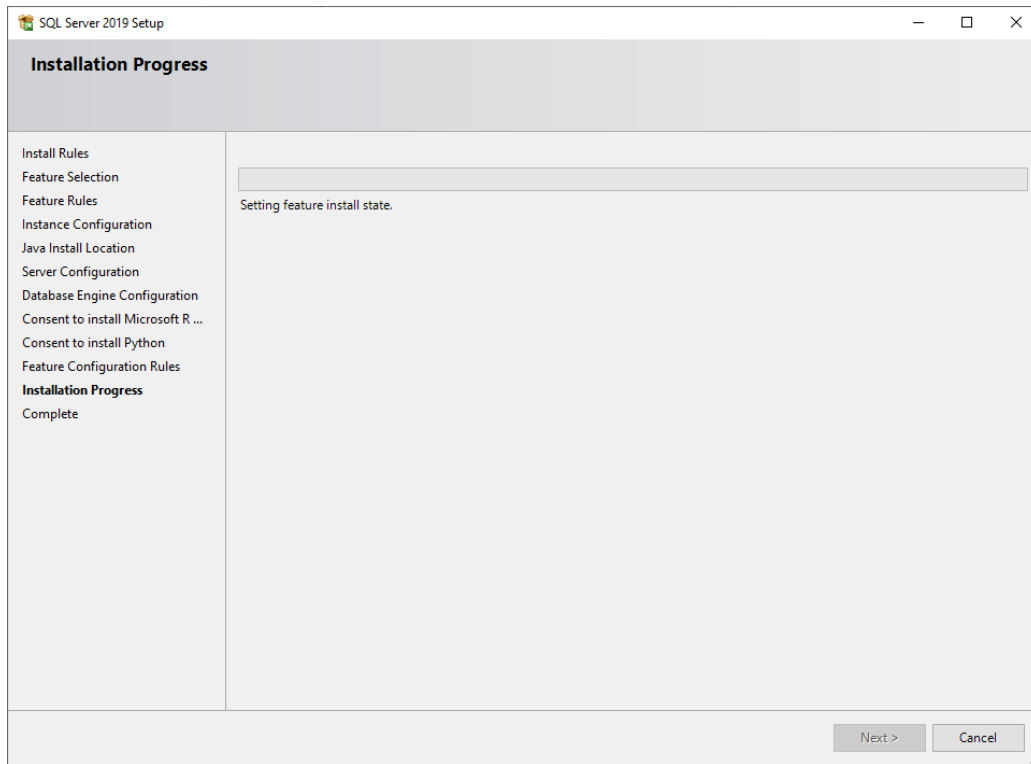
Add Current User Add... Remove

< Back Next > Cancel

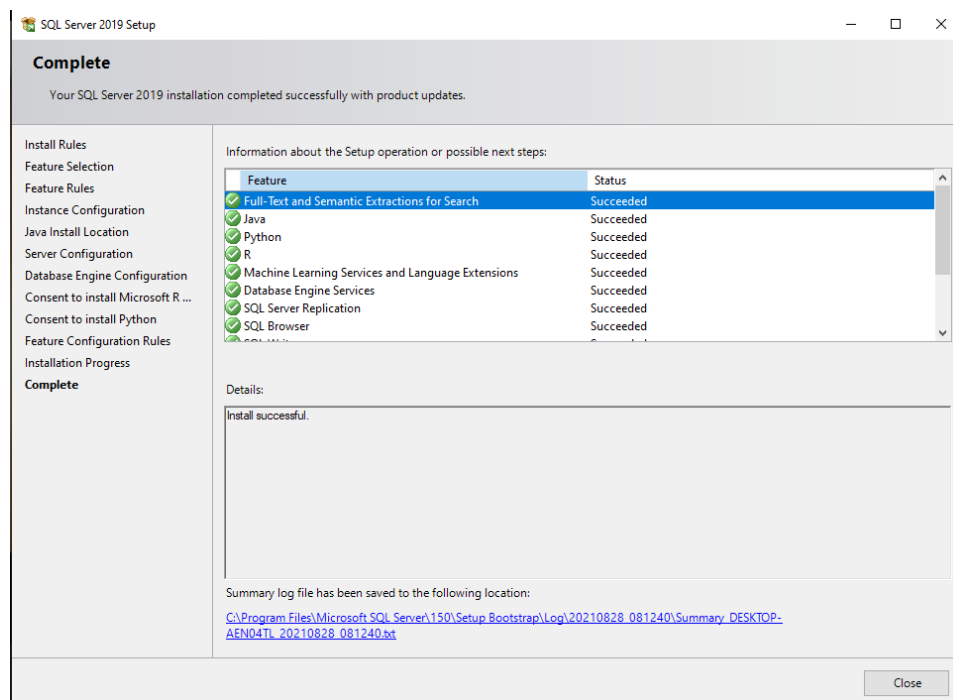
Click Accept.



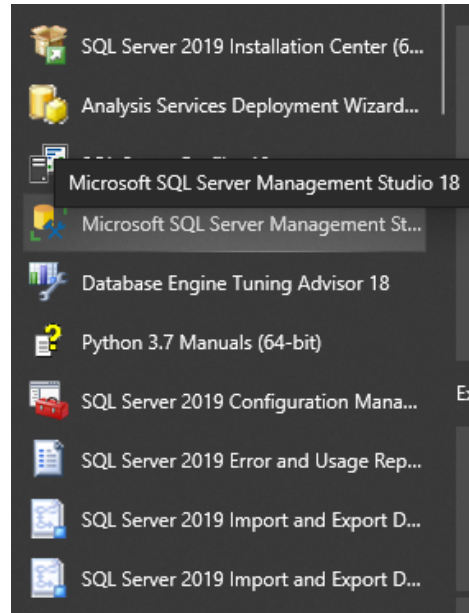
Wait for the installation to finish.



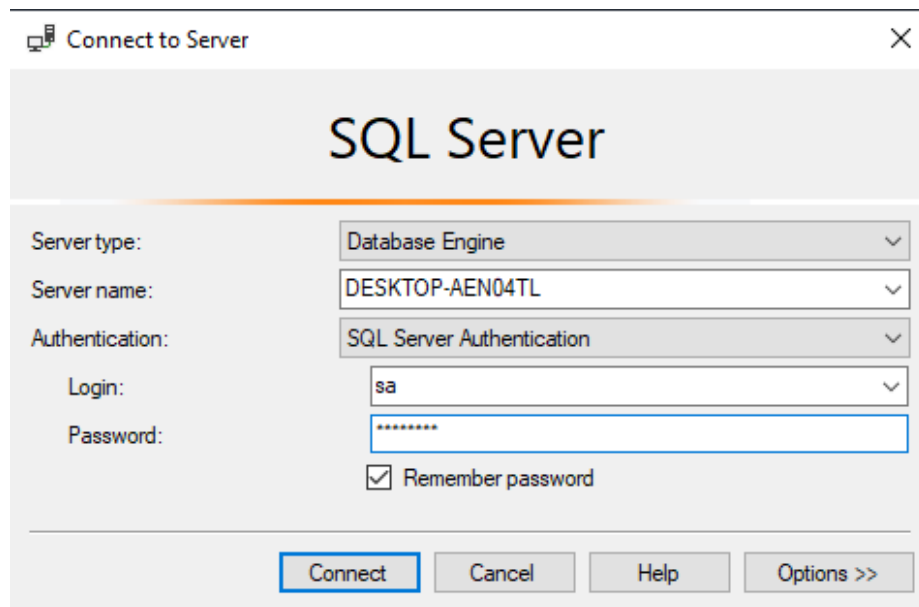
Check if all installation succeeded.



To check if SQL Server 2019 is working, open Microsoft SQL Management Studio 18.



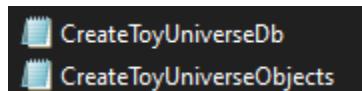
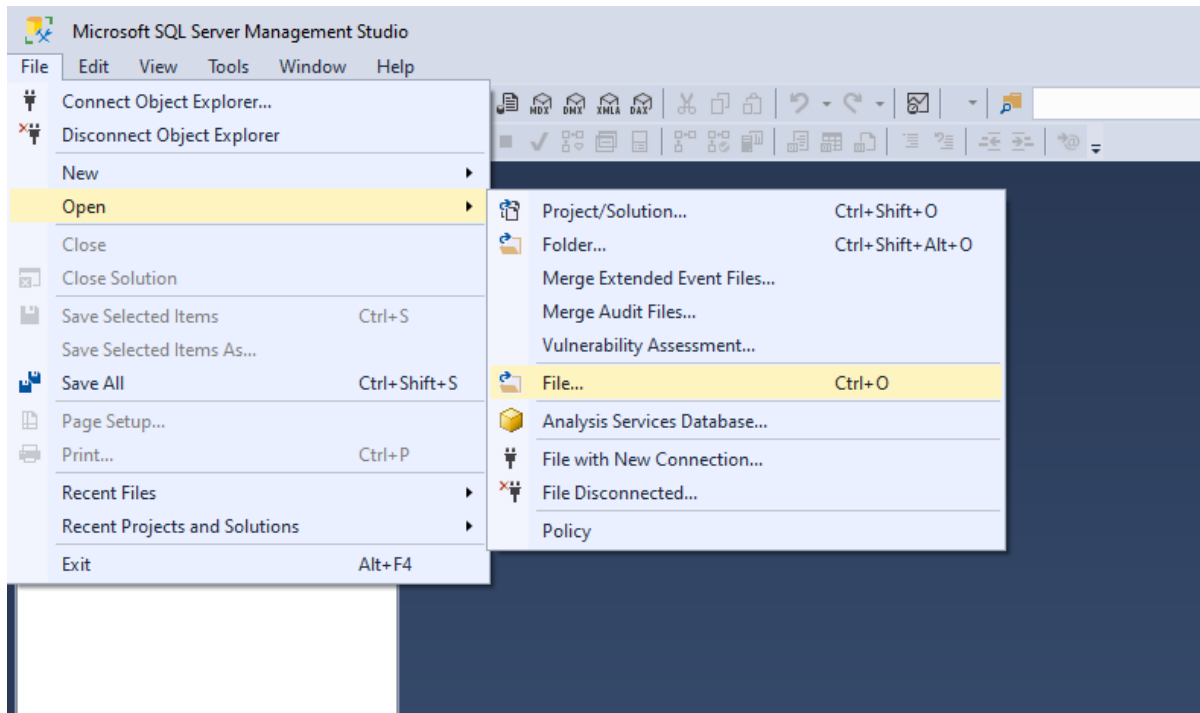
Choose SQL Server Authentication on Authentication, enter “sa” as Login and the password you set earlier during the installation of SQL Server 2019 ex(p@ssw0rd) and click Connect.



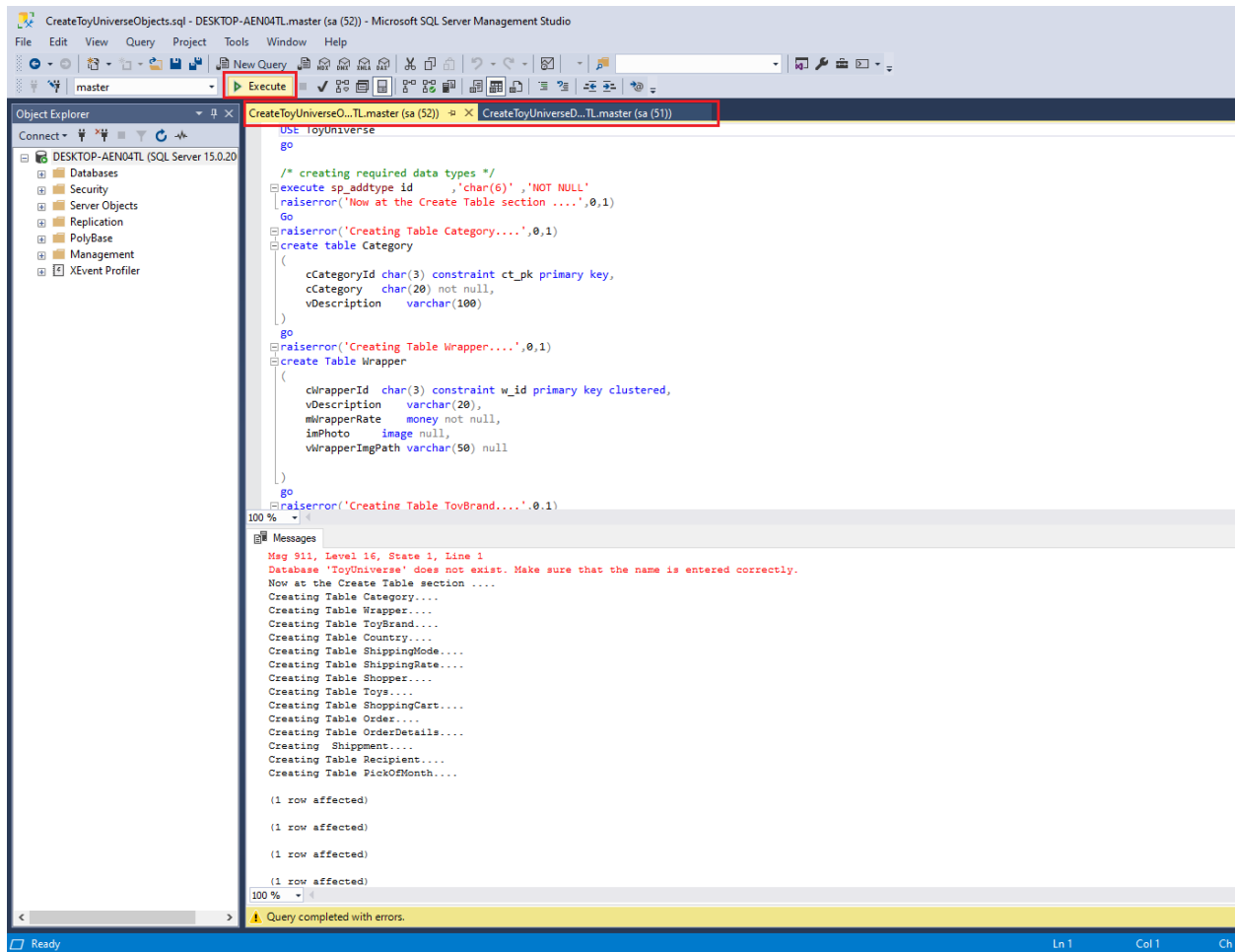
Now download the Schema's on this drive.

<https://drive.google.com/drive/folders/1q--W1ylm6iv-4PueWPo8iqCVPEYsjxnp?usp=sharing>

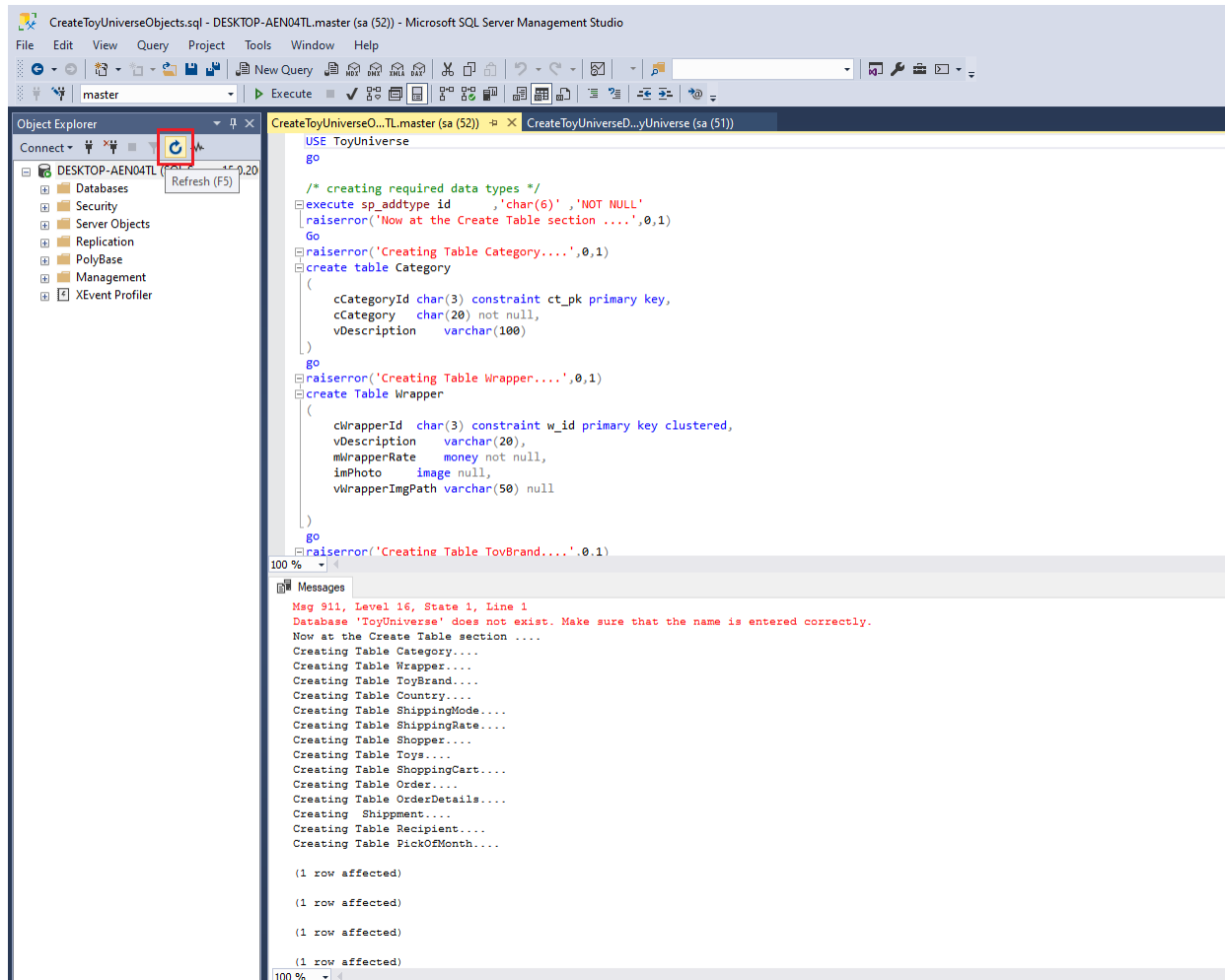
Click File > Open > File and locate Schema files that you downloaded.

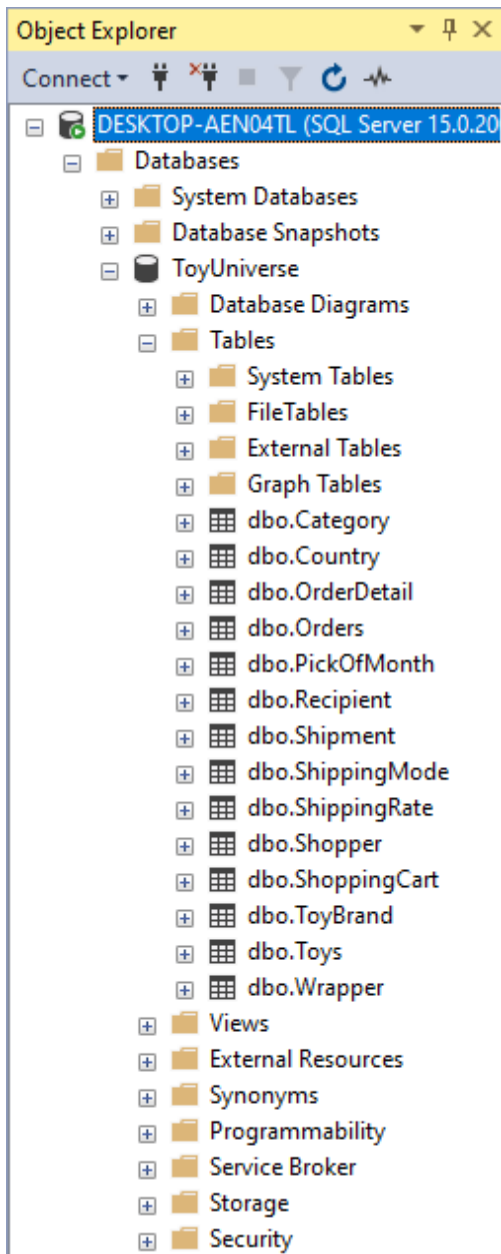


Click Execute for both sql files.



Now hit Refresh or F5 on Object Explorer and check under Databases and check if ToyUniverse DB is in there. If it's in there your SQL Server 2019 is all working.





Please Note:

You need administration Rights during the training to avoid problems.