

<MS Sql Server Admn Midterm Project>

<2/14/2023>

Prepared by

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<A01317295>

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COMP 4677 Project 1

You work for artificial ‘ABC Retail’ company as Database Administrator/Architect. Company operates worldwide and have several data centers. You are asked to come with proposal for the new SQL Server installation. Following are requirements that you should take in account:

- Number of employees/users: 3000
- Operational time: 24 hours/day, 7 days/week
- Potential database size: 600GB
- Yearly database growth: 200GB
- Monthly data change: 400GB
- Users profile:
 - o Different regional settings
 - o Different time zones
 - o Different OS
 - Windows 7
 - Windows 8
 - Windows 10
 - Linux
 - Apple/Mac

Your assignment have two parts, planning and practical installation.

Planning

Documentation should include detailed specifications with explanation, as well as resources used, for each:

- Host server
 - o HW
 - Processor
 - Number of cores
 - Memory
 - Underlying disk devices (RAID selection)
 - o SW
 - OS, including SP level
 - OS Edition
 - Disk drive line up
 - o SQL Server
 - Version
 - Edition
 - Disk drive/folder allocation for data and log files
 - Server configuration options

Planning:-

The following hardware requirements apply to SQL Server 2016 and SQL Server 2017:

Component	Requirement
Hard Disk	<p>SQL Server requires a minimum of 6 GB of available hard-disk space.</p> <p>Disk space requirements will vary with the SQL Server components you install..</p> <p>Installing SQL Server on computers with the NTFS or ReFS file formats is recommended. The FAT32 file system is supported but not recommended as it is less secure than the NTFS or ReFS file systems.</p> <p>Read-only, mapped, or compressed drives are blocked during installation.</p>
Drive	A DVD drive, as appropriate, is required for installation from disc.
Monitor	SQL Server requires Super-VGA (800x600) or higher resolution monitor.
Internet	Internet functionality requires Internet access (fees may apply).
Memory *	<p>Minimum:</p> <p>Express Editions: 512 MB</p> <p>All other editions: 1 GB</p> <p>Recommended:</p> <p>Express Editions: 1 GB</p> <p>All other editions: At least 4 GB and should be increased as database size increases to ensure optimal performance.</p>
Processor Speed	<p>Minimum: x64 Processor: 1.4 GHz</p> <p>Recommended: 2.0 GHz or faster</p>
Processor	x64 Processor: AMD Opteron, AMD Athlon 64, Intel Xeon with Intel EM64T

The following software requirements apply to all installations

Component	Requirement
.NET Framework	SQL Server 2016 (13.x) and later require .NET Framework 4.6 for the Database Engine, Master Data Services, or Replication. SQL Server setup automatically installs .
Network Software	Supported operating systems for SQL Server have built-in network software. Named and default instances of a stand-alone installation support the following network protocols: Shared memory, Named Pipes, TCP/IP, and VIA.

The following table shows which editions of SQL Server 2016 are compatible with which versions of Windows:

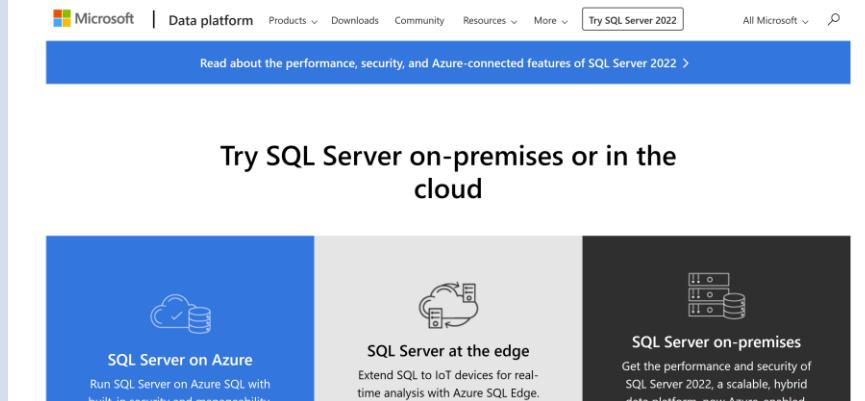
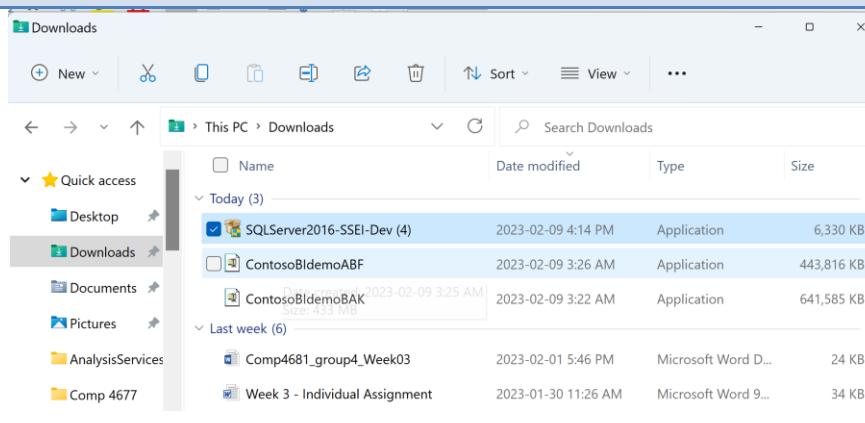
SQL Server edition:	Enterprise	Developer	Standard	Web	Express
Windows Server 2022 Datacenter	No	No	No	No	No
Windows Server 2022 Datacenter: Azure Edition	No	No	No	No	No
Windows Server 2022 Standard	No	No	No	No	No
Windows Server 2019 Datacenter	Yes	Yes	Yes	Yes	Yes
Windows Server 2019 Standard	Yes	Yes	Yes	Yes	Yes
Windows Server 2019 Essentials	Yes	Yes	Yes	Yes	Yes
Windows Server 2016 Datacenter	Yes	Yes	Yes	Yes	Yes
Windows Server 2016 Standard	Yes	Yes	Yes	Yes	Yes
Windows Server 2016 Essentials	Yes	Yes	Yes	Yes	Yes
Windows Server 2012 R2 Datacenter	Yes	Yes	Yes	Yes	Yes
Windows Server 2012 R2 Standard	Yes	Yes	Yes	Yes	Yes
Windows Server 2012 R2 Essentials	Yes	Yes	Yes	Yes	Yes
Windows Server 2012 R2 Foundation	Yes	Yes	Yes	Yes	Yes

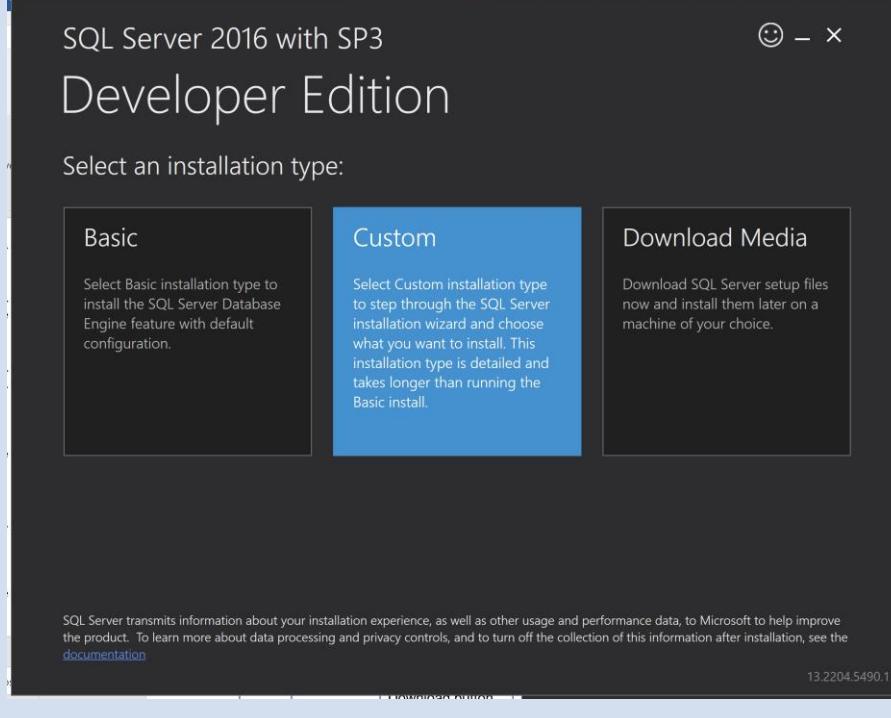
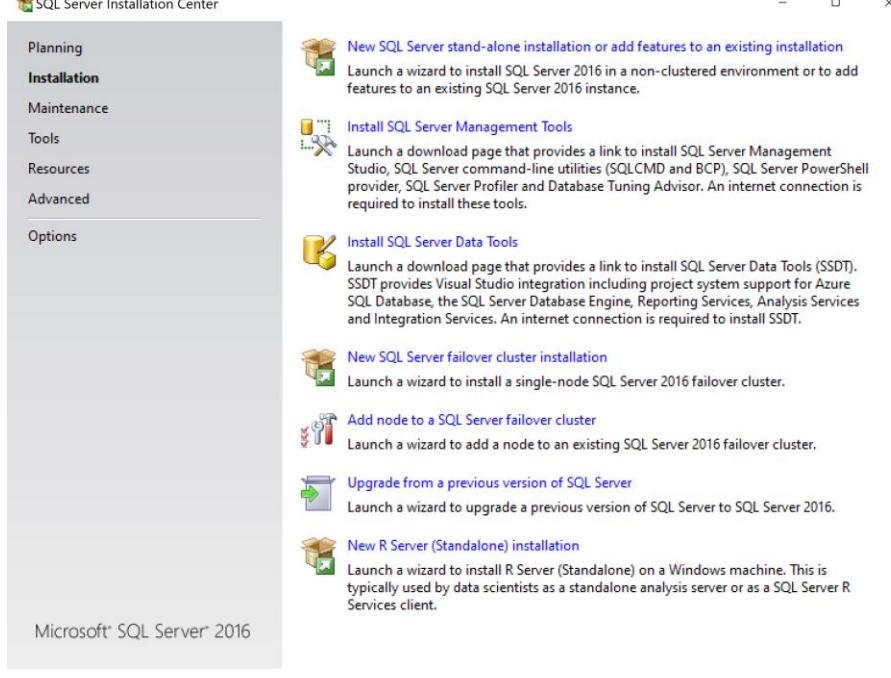
SQL Server edition:	Enterprise	Developer	Standard	Web	Express
Windows Server 2012 Datacenter	Yes	Yes	Yes	Yes	Yes
Windows Server 2012 Standard	Yes	Yes	Yes	Yes	Yes
Windows Server 2012 Essentials	Yes	Yes	Yes	Yes	Yes
Windows Server 2012 Foundation	Yes	Yes	Yes	Yes	Yes
Windows 11 IoT Enterprise	No	No	No	No	No
Windows 11 Enterprise	No	No	No	No	No
Windows 11 Professional	No	No	No	No	No
Windows 11 Home	No	No	No	No	No
Windows 10 IoT Enterprise	No	Yes	Yes	No	Yes
Windows 10 Enterprise	No	Yes	Yes	No	Yes
Windows 10 Professional	No	Yes	Yes	No	Yes
Windows 10 Home	No	Yes	Yes	No	Yes
Windows 8.1 Enterprise	No	Yes	Yes	No	Yes
Windows 8.1 Pro	No	Yes	Yes	No	Yes
Windows 8.1 Enterprise	No	Yes	Yes	No	Yes
Windows 8 Pro	No	Yes	Yes	No	Yes
Windows 8	No	Yes	Yes	No	Yes

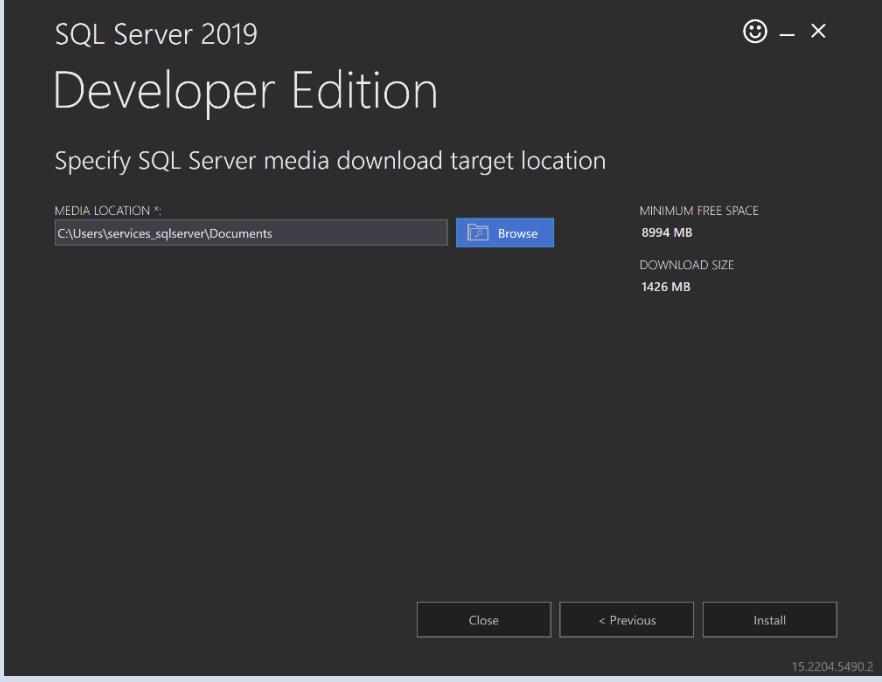
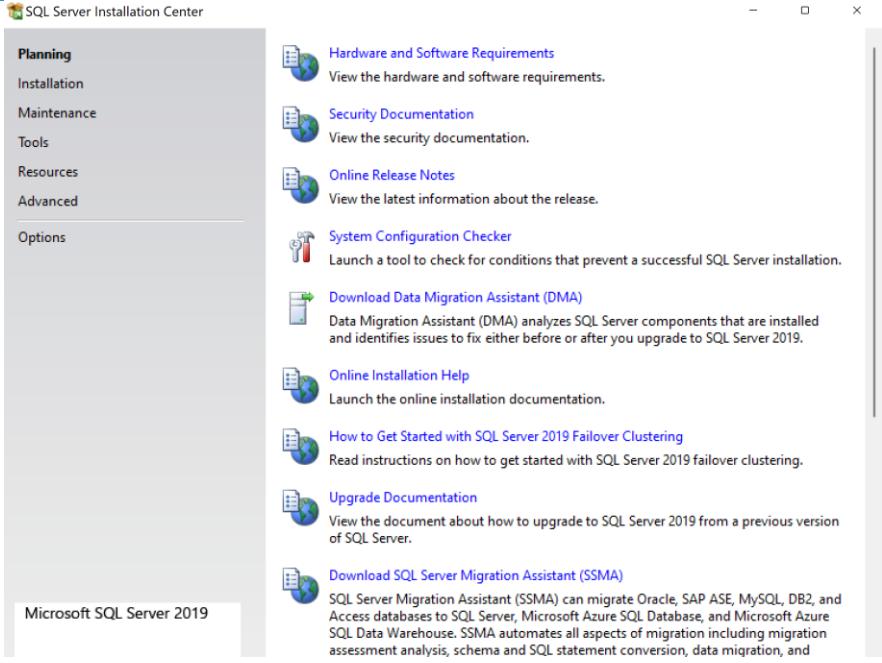
- **Windows Operating System**
 - Windows 10, 11, and Windows Server 2016, 2019, 2022 or later
- **Processor**
 - Intel - Compatible processor with a speed of 1.4 GHz or faster.
- **RAM**
 - Minimum 512 MB
 - Recommended: 1 GB or more
- **Hard Disk Space**
 - 6 GB of Disk Space

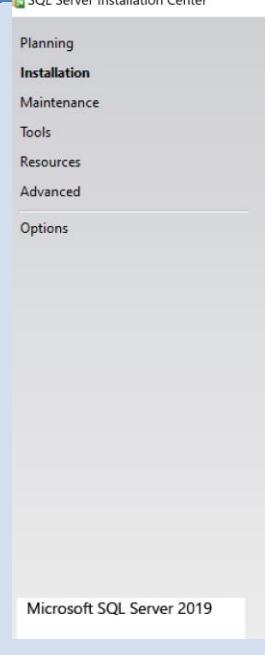
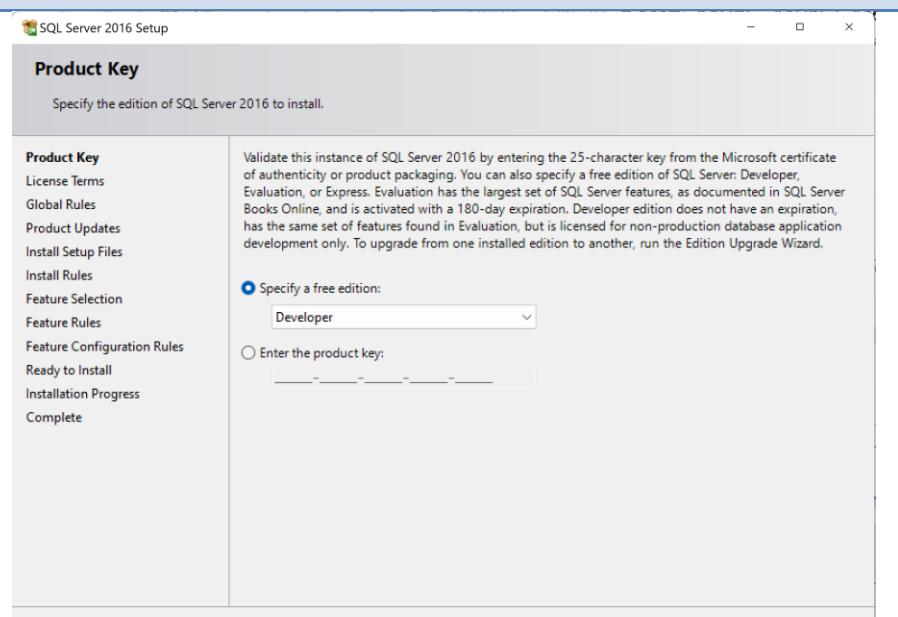
Installation:-

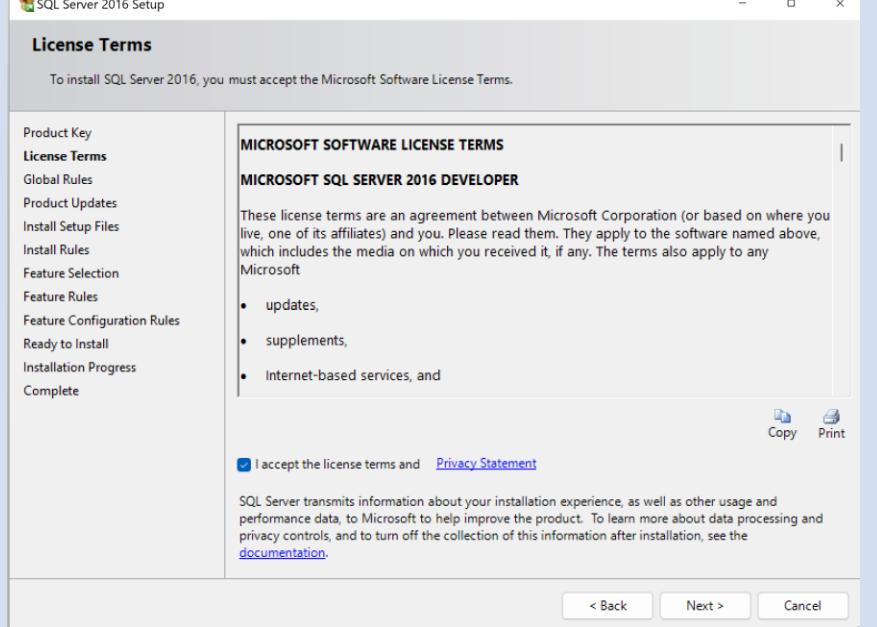
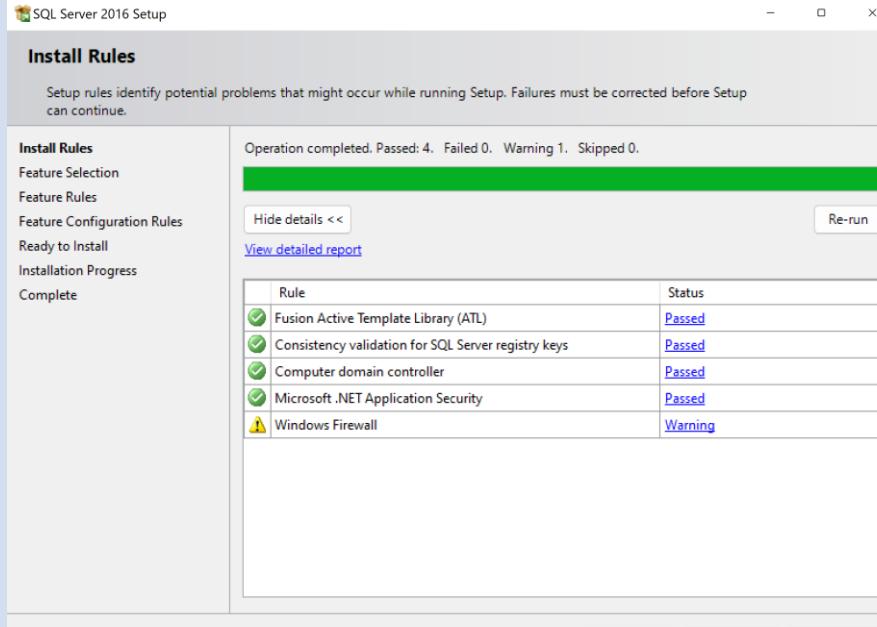
Install yet another (third) SQL Server instance:- Instance name: MIDTERM

Step	Server or Instance	Description	Screenshot/Notes																								
1	Download Desired Edition	Open Microsoft SQL Server Downloads page and download SQL Server 2016 Developer Edition.	 <p>Try SQL Server on-premises or in the cloud</p> <p>SQL Server on Azure</p> <p>Run SQL Server on Azure SQL with built-in security and manageability</p> <p>SQL Server at the edge</p> <p>Extend SQL to IoT devices for real-time analysis with Azure SQL Edge.</p> <p>SQL Server on-premises</p> <p>Get the performance and security of SQL Server 2022, a scalable, hybrid data platform, now Azure-enabled.</p>																								
2	Run Installed Application	Navigate to the folder where downloaded application is saved then double-click it to start the installation process.	 <table border="1"> <thead> <tr> <th>Name</th> <th>Date modified</th> <th>Type</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>SQLServer2016-SSEI-Dev (4)</td> <td>2023-02-09 4:14 PM</td> <td>Application</td> <td>6,330 KB</td> </tr> <tr> <td>ContosoBldemoABF</td> <td>2023-02-09 3:26 AM</td> <td>Application</td> <td>443,816 KB</td> </tr> <tr> <td>ContosoBldemoBAK</td> <td>2023-02-09 3:25 AM</td> <td>Application</td> <td>641,585 KB</td> </tr> <tr> <td>Comp4681_group4_Week03</td> <td>2023-02-01 5:46 PM</td> <td>Microsoft Word Document</td> <td>24 KB</td> </tr> <tr> <td>Week 3 - Individual Assignment</td> <td>2023-01-30 11:26 AM</td> <td>Microsoft Word Document</td> <td>34 KB</td> </tr> </tbody> </table>	Name	Date modified	Type	Size	SQLServer2016-SSEI-Dev (4)	2023-02-09 4:14 PM	Application	6,330 KB	ContosoBldemoABF	2023-02-09 3:26 AM	Application	443,816 KB	ContosoBldemoBAK	2023-02-09 3:25 AM	Application	641,585 KB	Comp4681_group4_Week03	2023-02-01 5:46 PM	Microsoft Word Document	24 KB	Week 3 - Individual Assignment	2023-01-30 11:26 AM	Microsoft Word Document	34 KB
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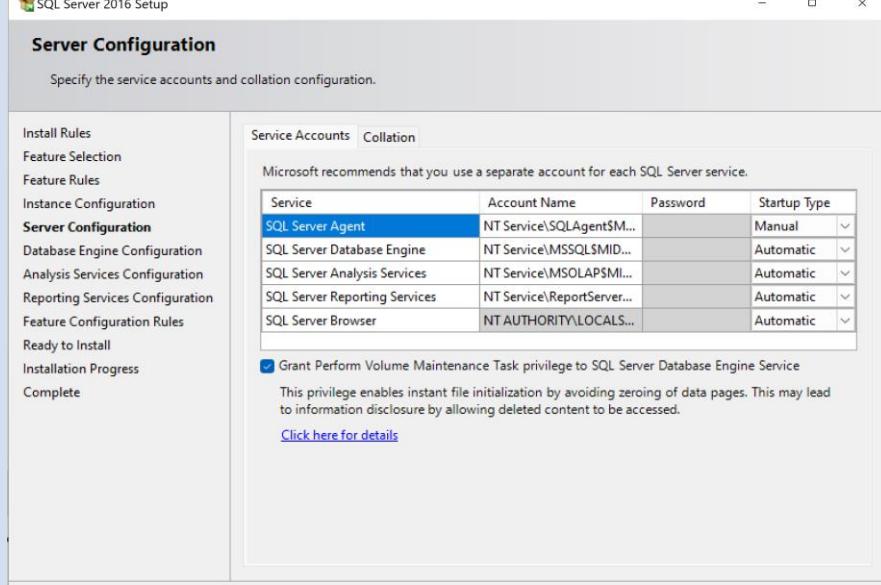
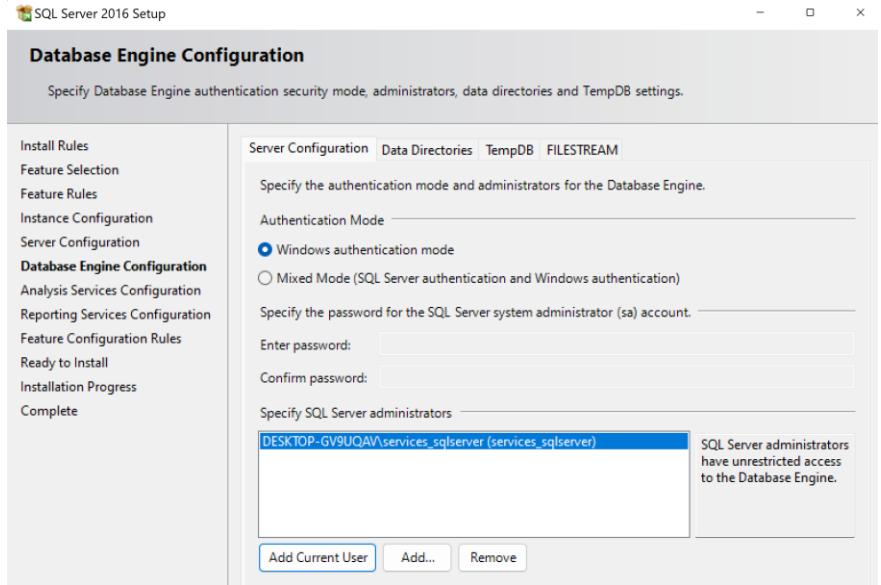
Step	Server or Instance	Description	Screenshot/Notes
3	Select Custom Installation	<p>From “Basic”, “Custom” and “Download Medium” installation types. Choose custom installation and let the application to download.</p>	 <p>SQL Server 2016 with SP3 Developer Edition</p> <p>Select an installation type:</p> <ul style="list-style-type: none"> Basic: Select Basic installation type to install the SQL Server Database Engine feature with default configuration. Custom: Select Custom installation type to step through the SQL Server installation wizard and choose what you want to install. This installation type is detailed and takes longer than running the Basic install. Download Media: Download SQL Server setup files now and install them later on a machine of your choice. <p>SQL Server transmits information about your installation experience, as well as other usage and performance data, to Microsoft to help improve the product. To learn more about data processing and privacy controls, and to turn off the collection of this information after installation, see the documentation.</p>
4	SQL Server Installation Center	<p>Click on Installation link on the left pane, then click on the “New SQL Server stand-alone installation or add features to an existing installation” in the right pane</p>	 <p>Microsoft® SQL Server® 2016</p> <ul style="list-style-type: none"> New SQL Server stand-alone installation or add features to an existing installation: Launch a wizard to install SQL Server 2016 in a non-clustered environment or to add features to an existing SQL Server 2016 instance. Install SQL Server Management Tools: Launch a download page that provides a link to install SQL Server Management Studio, SQL Server command-line utilities (SQLCMD and BCP), SQL Server PowerShell provider, SQL Server Profiler and Database Tuning Advisor. An internet connection is required to install these tools. Install SQL Server Data Tools: Launch a download page that provides a link to install SQL Server Data Tools (SSDT). SSDT provides Visual Studio integration including project system support for Azure SQL Database, the SQL Server Database Engine, Reporting Services, Analysis Services and Integration Services. An internet connection is required to install SSDT. New SQL Server failover cluster installation: Launch a wizard to install a single-node SQL Server 2016 failover cluster. Add node to a SQL Server failover cluster: Launch a wizard to add a node to an existing SQL Server 2016 failover cluster. Upgrade from a previous version of SQL Server: Launch a wizard to upgrade a previous version of SQL Server to SQL Server 2016. New R Server (Standalone) installation: Launch a wizard to install R Server (Standalone) on a Windows machine. This is typically used by data scientists as a standalone analysis server or as a SQL Server R Services client.

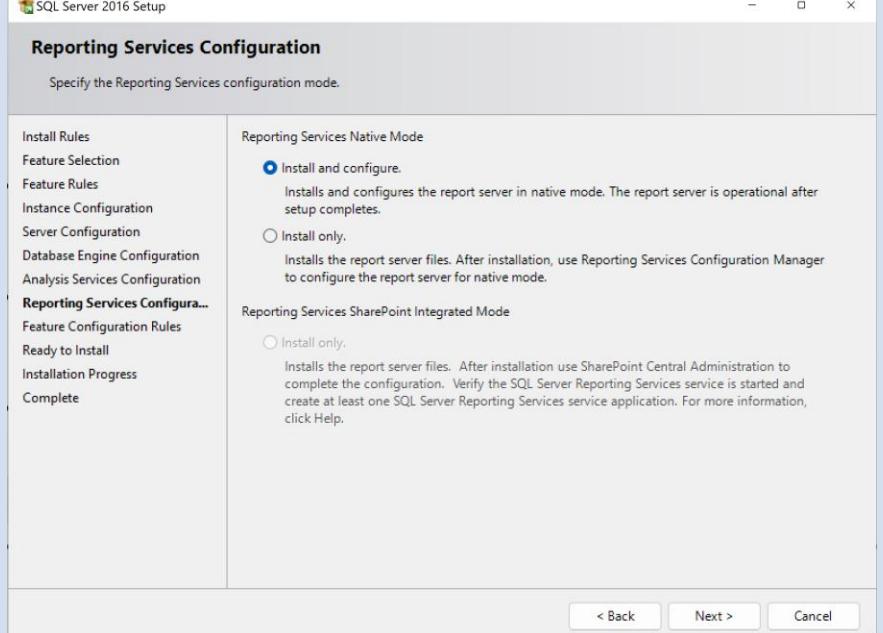
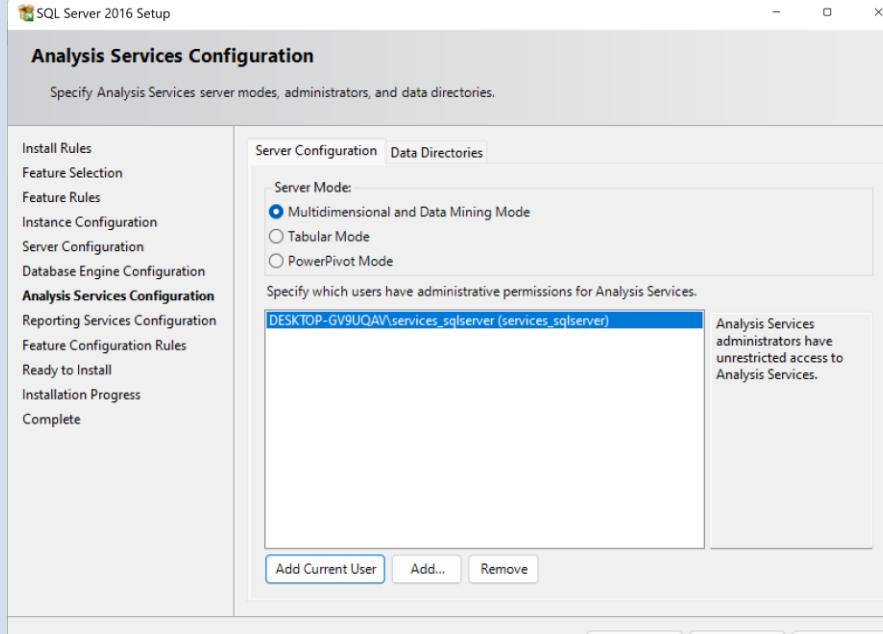
Step	Server or Instance	Description	Screenshot/Notes
5	Select Media target location	Change the Media download target location if you want to change.	
6	Click Installation	Once all the Media files have been downloaded this screen will flash. You have to click on Installation.	

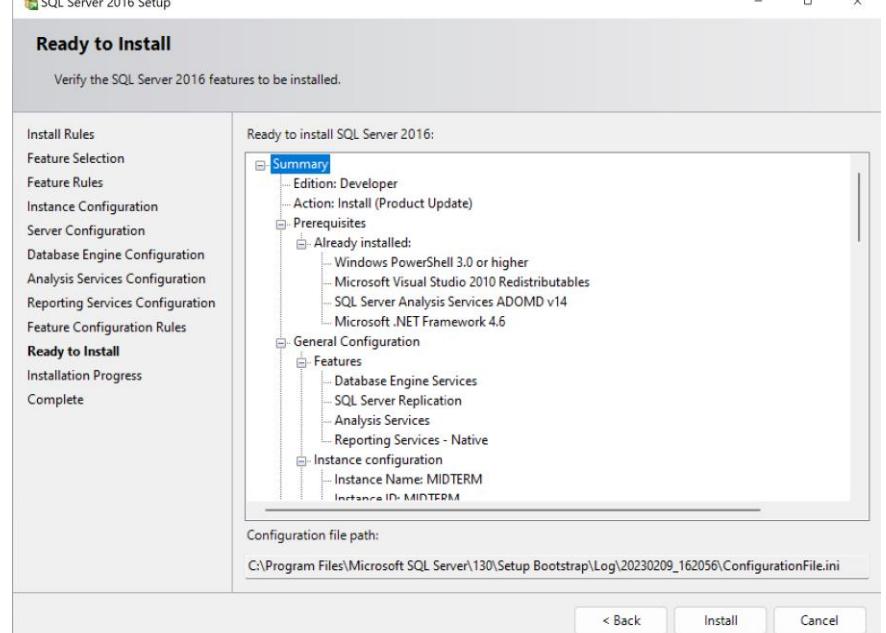
Step	Server or Instance	Description	Screenshot/Notes		
7	Choose New SQL Server Stand alone	Choose the first option i.e. New SQL Server stand-alone installation in the list and proceed to the next step.	 <p>New SQL Server stand-alone installation or add features to an existing installation Launch a wizard to install SQL Server 2019 in a non-clustered environment or to add features to an existing SQL Server 2019 instance.</p> <p>Install SQL Server Reporting Services Launch a download page that provides a link to install SQL Server Reporting Services. An internet connection is required to install SSRS.</p> <p>Install SQL Server Management Tools Launch a download page that provides a link to install SQL Server Management Studio, SQL Server command-line utilities (SQLCMD and BCP), SQL Server PowerShell provider, SQL Server Profiler and Database Tuning Advisor. An internet connection is required to install these tools.</p> <p>Install SQL Server Data Tools Launch a download page that provides a link to install SQL Server Data Tools (SSDT). SSDT provides Visual Studio integration including project system support for Microsoft Azure SQL Database, the SQL Server Database Engine, Reporting Services, Analysis Services and Integration Services. An internet connection is required to install SSDT.</p> <p>New SQL Server failover cluster installation Launch a wizard to install a single-node SQL Server 2019 failover cluster. This action is only available in the clustered environment.</p> <p>Add node to a SQL Server failover cluster Launch a wizard to add a node to an existing SQL Server 2019 failover cluster. This action is only available in the clustered environment.</p> <p>Upgrade from a previous version of SQL Server Launch a wizard to upgrade a previous version of SQL Server to SQL Server 2019. Click here to first view Upgrade Documentation</p>		
8	Specify Edition	Since we are installing the Developer edition, let us select Developer edition and proceed with that option. Click Next.	 <p>Product Key Specify the edition of SQL Server 2016 to install.</p> <table border="1"> <tr> <td> Product Key License Terms Global Rules Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Feature Configuration Rules Ready to Install Installation Progress Complete </td> <td> Validate this instance of SQL Server 2016 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server: Developer, Evaluation, or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. Developer edition does not have an expiration, has the same set of features found in Evaluation, but is licensed for non-production database application development only. To upgrade from one installed edition to another, run the Edition Upgrade Wizard. </td> </tr> </table> <p><input checked="" type="radio"/> Specify a free edition: Developer</p> <p><input type="radio"/> Enter the product key: _____</p>	Product Key License Terms Global Rules Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Feature Configuration Rules Ready to Install Installation Progress Complete	Validate this instance of SQL Server 2016 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server: Developer, Evaluation, or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. Developer edition does not have an expiration, has the same set of features found in Evaluation, but is licensed for non-production database application development only. To upgrade from one installed edition to another, run the Edition Upgrade Wizard.
Product Key License Terms Global Rules Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Feature Configuration Rules Ready to Install Installation Progress Complete	Validate this instance of SQL Server 2016 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server: Developer, Evaluation, or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. Developer edition does not have an expiration, has the same set of features found in Evaluation, but is licensed for non-production database application development only. To upgrade from one installed edition to another, run the Edition Upgrade Wizard.				

Step	Server or Instance	Description	Screenshot/Notes												
9	Accept licence terms	Tick mark the “I accept the license terms and Privacy Statement” Radio button and click on “Next”.	 <p>The screenshot shows the 'License Terms' step of the SQL Server 2016 Setup. It displays the Microsoft Software License Terms and the MICROSOFT SQL SERVER 2016 DEVELOPER license. A checkbox labeled 'I accept the license terms and Privacy Statement' is checked. Below the checkbox, a note states that SQL Server transmits installation information to Microsoft. At the bottom right, there are 'Copy' and 'Print' buttons, and navigation buttons for '< Back', 'Next >', and 'Cancel'.</p>												
11	Install Rules	Windows will check the system to find out problems that can occur while the setup is running. Click Next once done successfully.	 <p>The screenshot shows the 'Install Rules' step of the SQL Server 2016 Setup. It displays a summary of the rule check results: 'Operation completed. Passed: 4. Failed 0. Warning 1. Skipped 0.' Below this, a table lists the rules and their status:</p> <table border="1"> <thead> <tr> <th>Rule</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>Fusion Active Template Library (ATL)</td> <td>Passed</td> </tr> <tr> <td>Consistency validation for SQL Server registry keys</td> <td>Passed</td> </tr> <tr> <td>Computer domain controller</td> <td>Passed</td> </tr> <tr> <td>Microsoft .NET Application Security</td> <td>Passed</td> </tr> <tr> <td>Windows Firewall</td> <td>Warning</td> </tr> </tbody> </table> <p>At the bottom right, there are 'Re-run', 'View detailed report', and navigation buttons for '< Back', 'Next >', and 'Cancel'.</p>	Rule	Status	Fusion Active Template Library (ATL)	Passed	Consistency validation for SQL Server registry keys	Passed	Computer domain controller	Passed	Microsoft .NET Application Security	Passed	Windows Firewall	Warning
Rule	Status														
Fusion Active Template Library (ATL)	Passed														
Consistency validation for SQL Server registry keys	Passed														
Computer domain controller	Passed														
Microsoft .NET Application Security	Passed														
Windows Firewall	Warning														

Step	Server or Instance	Description	Screenshot/Notes
12	Feature Selection	<p>Choose feature that you would like to be included in your sql server. Click Next after you are done.</p> <ul style="list-style-type: none"> a. Instance Features <ul style="list-style-type: none"> i. Database Engine Services <ul style="list-style-type: none"> 1. SQL Server Replication ii. Analysis Services iii. Reporting Services – Native b. Shared Features <ul style="list-style-type: none"> i. Client Tools Connectivity c. Change Instance and both Shared directories (optional) 	<p>The configuration and operation of each instance feature of a SQL Server instance is isolated from other SQL Server instances. SQL Server instances can operate side-by-side.</p> <p>Prerequisites for selected features:</p> <ul style="list-style-type: none"> Already installed: <ul style="list-style-type: none"> Windows PowerShell 3.0 or higher Microsoft Visual Studio 2010 Redistribut <p>Disk Space Requirements</p> <p>Drive C: 2457 MB required, 125626 MB available</p>

Step	Server or Instance	Description	Screenshot/Notes																								
13	Instance Configuration	Name the instance and click next. And configure server.	 <table border="1"> <thead> <tr> <th>Service</th> <th>Account Name</th> <th>Password</th> <th>Startup Type</th> </tr> </thead> <tbody> <tr> <td>SQL Server Agent</td> <td>NT Service\SQLAgent\$M...</td> <td></td> <td>Manual</td> </tr> <tr> <td>SQL Server Database Engine</td> <td>NT Service\MSSQLSMID...</td> <td></td> <td>Automatic</td> </tr> <tr> <td>SQL Server Analysis Services</td> <td>NT Service\MSOLAP\$M...</td> <td></td> <td>Automatic</td> </tr> <tr> <td>SQL Server Reporting Services</td> <td>NT Service\ReportServer...</td> <td></td> <td>Automatic</td> </tr> <tr> <td>SQL Server Browser</td> <td>NT AUTHORITY\LOCALS...</td> <td></td> <td>Automatic</td> </tr> </tbody> </table> <p><input checked="" type="checkbox"/> 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</p>	Service	Account Name	Password	Startup Type	SQL Server Agent	NT Service\SQLAgent\$M...		Manual	SQL Server Database Engine	NT Service\MSSQLSMID...		Automatic	SQL Server Analysis Services	NT Service\MSOLAP\$M...		Automatic	SQL Server Reporting Services	NT Service\ReportServer...		Automatic	SQL Server Browser	NT AUTHORITY\LOCALS...		Automatic
Service	Account Name	Password	Startup Type																								
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SQL Server Reporting Services	NT Service\ReportServer...		Automatic																								
SQL Server Browser	NT AUTHORITY\LOCALS...		Automatic																								
14	Database Engine Configuration	Select Mixed Mode Radio button and specify the password for SQL Server. And then add current user and click next.	 <p>Specify Database Engine authentication security mode, administrators, data directories and TempDB settings.</p> <p>Authentication Mode <input checked="" type="radio"/> Windows authentication mode <input type="radio"/> Mixed Mode (SQL Server authentication and Windows authentication)</p> <p>Specify the password for the SQL Server system administrator (sa) account.</p> <p>Enter password: _____</p> <p>Confirm password: _____</p> <p>Specify SQL Server administrators</p> <p>DESKTOP-GV9UQAV\services_sqlserver (services_sqlserver)</p> <p>SQL Server administrators have unrestricted access to the Database Engine.</p>																								

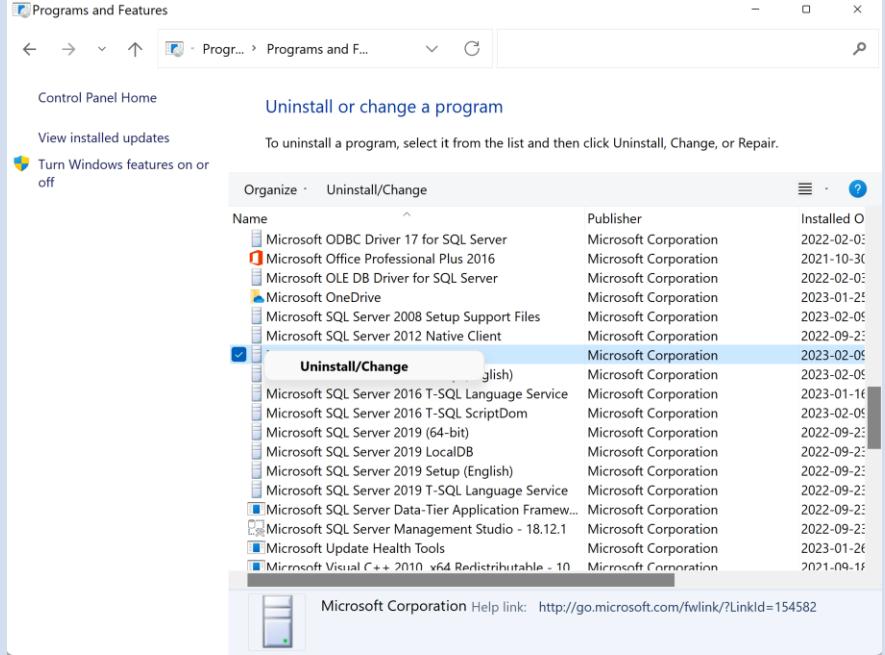
Step	Server or Instance	Description	Screenshot/Notes
	Reporting Service Configuration	Keep Install and configure selected, click on Next button	 <p>The screenshot shows the 'Reporting Services Configuration' step of the SQL Server 2016 Setup. The left pane lists configuration steps: Install Rules, Feature Selection, Feature Rules, Instance Configuration, Server Configuration, Database Engine Configuration, Analysis Services Configuration, Reporting Services Configuration (selected), Feature Configuration Rules, Ready to Install, Installation Progress, and Complete. The right pane shows the 'Reporting Services Native Mode' configuration. Under 'Install and configure', it says: 'Installs and configures the report server in native mode. The report server is operational after setup completes.' Under 'Install only', it says: 'Installs the report server files. After installation, use Reporting Services Configuration Manager to configure the report server for native mode.' At the bottom are 'Back', 'Next >', and 'Cancel' buttons.</p>
15	Analysis Services Configuration	Set the server mode as per your preference. Choose an administrator. Click on Next.	 <p>The screenshot shows the 'Analysis Services Configuration' step of the SQL Server 2016 Setup. The left pane lists configuration steps: Install Rules, Feature Selection, Feature Rules, Instance Configuration, Server Configuration, Database Engine Configuration, Analysis Services Configuration (selected), Reporting Services Configuration, Feature Configuration Rules, Ready to Install, Installation Progress, and Complete. The right pane shows the 'Analysis Services Configuration' dialog. It has tabs for 'Server Configuration' (selected) and 'Data Directories'. Under 'Server Mode', 'Multidimensional and Data Mining Mode' is selected. Under 'Data Directories', there is a list box containing 'DESKTOP-GV9UQAV\services_sqlserver (services_sqlserver)'. A note on the right says: 'Analysis Services administrators have unrestricted access to Analysis Services.' At the bottom are 'Back', 'Next >', and 'Cancel' buttons.</p>

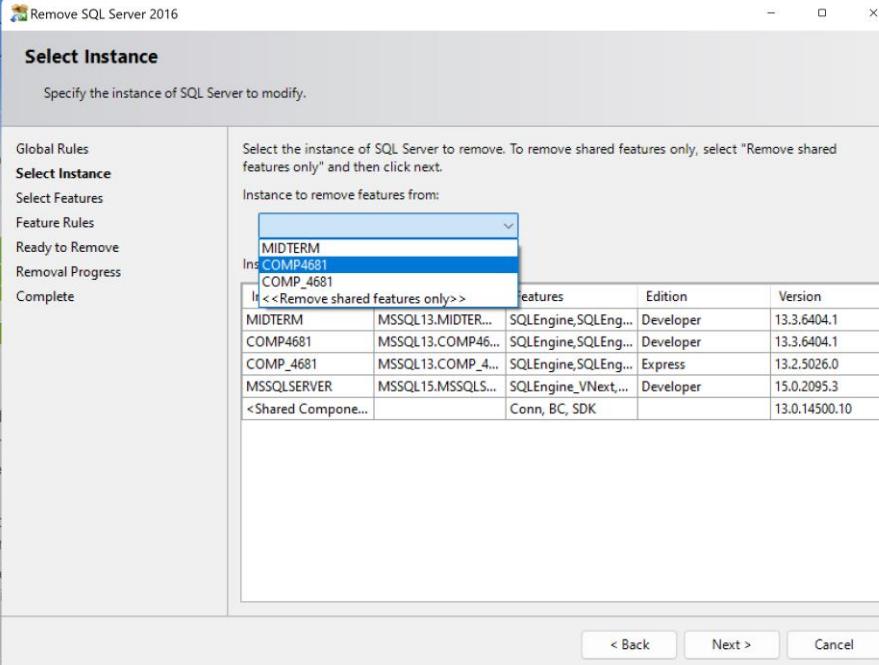
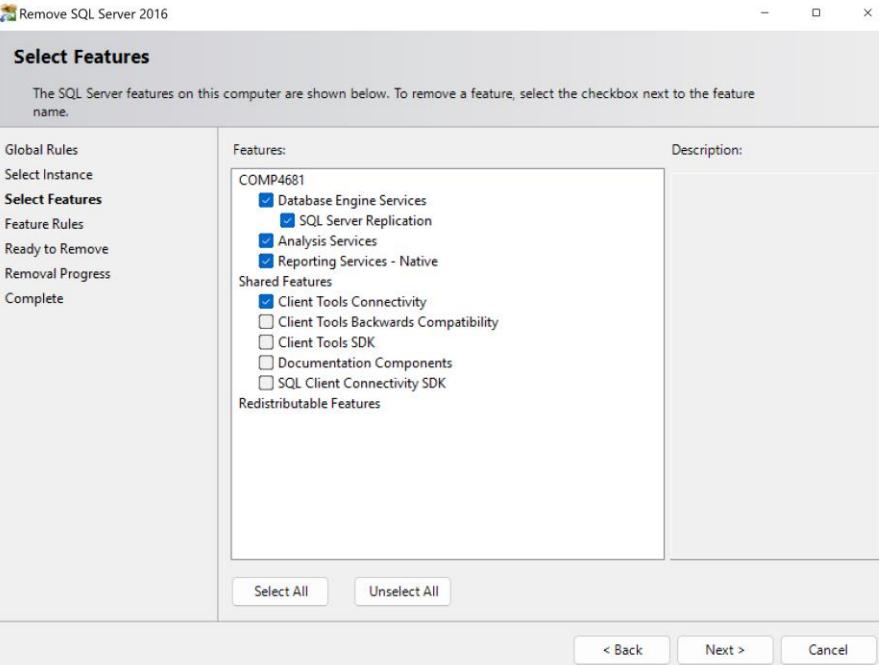
Step	Server or Instance	Description	Screenshot/Notes
16	Ready to Install	Check the list of packages and services and then press Install.	
17	Complete	Once it get installed. Click on Close. SQL Server is installed and ready to be use.	

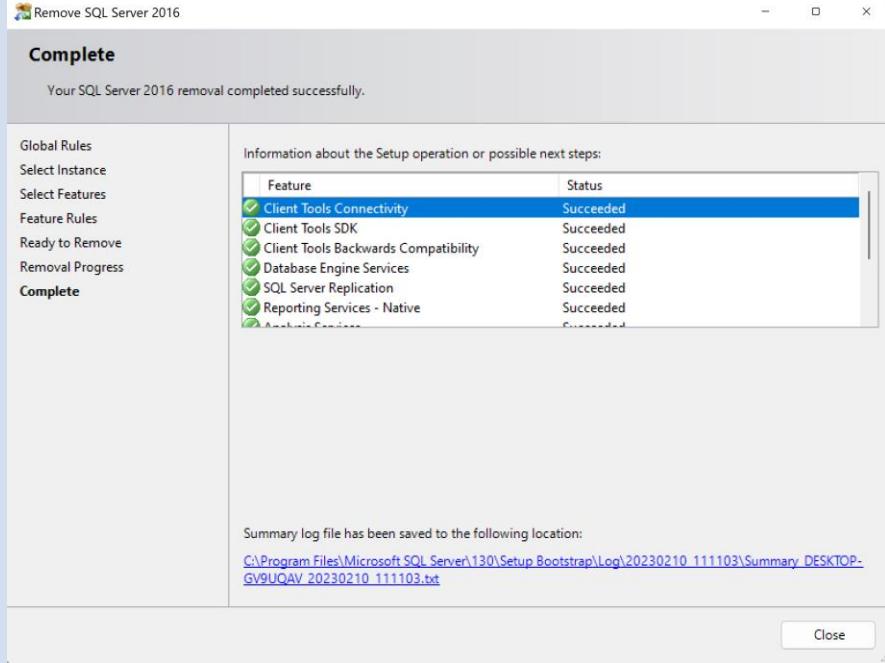
Uninstall:-

Unisnall COMP4677 instance

Step	Server or Instance	Description	Screenshot/Notes
1		To begin the removal process, navigate to Settings from the Start menu and then choose Apps .	

2		Search for sql in the search box																																																							
3		Select Microsoft SQL Server (Version) (Bit) . For example, Microsoft SQL Server 2017 (64-bit).																																																							
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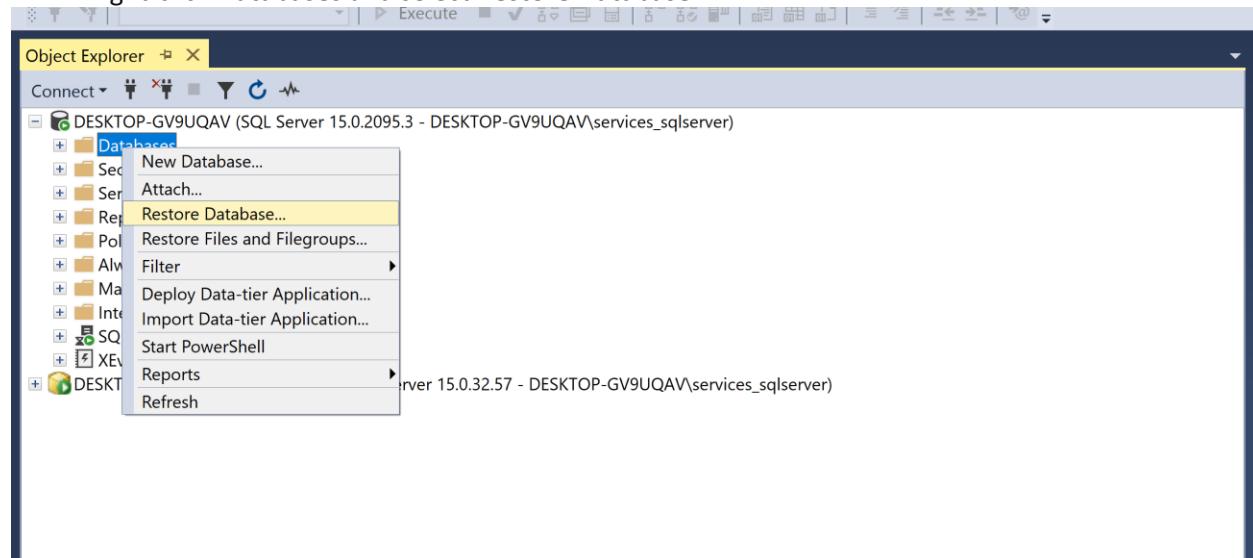
6	Select Instance	<p>On the Select Instance page, use the drop-down box to specify an instance of SQL Server to remove, or specify the option to remove only the SQL Server shared features and management tools. To continue, select Next.</p>	 <p>The screenshot shows the 'Select Instance' step of the 'Remove SQL Server 2016' wizard. On the left, a navigation pane lists steps: Global Rules, Select Instance (which is selected), Select Features, Feature Rules, Ready to Remove, Removal Progress, and Complete. The main area is titled 'Select Instance' with the sub-instruction 'Specify the instance of SQL Server to modify.' A dropdown menu titled 'Instance to remove features from:' contains three entries: 'MIDTERM', 'In: COMP4681', and 'COMP_4681'. The 'COMP4681' entry is highlighted with a blue selection bar. Below the dropdown is a table showing details for each instance:</p> <table border="1"> <thead> <tr> <th></th> <th>Features</th> <th>Edition</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>MIDTERM</td> <td>MSSQL13.MIDTER...</td> <td>SQLEngine,SQLEng...</td> <td>Developer</td> </tr> <tr> <td>COMP4681</td> <td>MSSQL13.COMP46...</td> <td>SQLEngine,SQLEng...</td> <td>Developer</td> </tr> <tr> <td>COMP_4681</td> <td>MSSQL13.COMP_4...</td> <td>SQLEngine,SQLEng...</td> <td>Express</td> </tr> <tr> <td>MSSQLSERVER</td> <td>MSSQL15.MSSQLS...</td> <td>SQLEngine_VNext,...</td> <td>Developer</td> </tr> <tr> <td><Shared Component...></td> <td>Conn, BC, SDK</td> <td></td> <td>13.0.14500.10</td> </tr> </tbody> </table>		Features	Edition	Version	MIDTERM	MSSQL13.MIDTER...	SQLEngine,SQLEng...	Developer	COMP4681	MSSQL13.COMP46...	SQLEngine,SQLEng...	Developer	COMP_4681	MSSQL13.COMP_4...	SQLEngine,SQLEng...	Express	MSSQLSERVER	MSSQL15.MSSQLS...	SQLEngine_VNext,...	Developer	<Shared Component...>	Conn, BC, SDK		13.0.14500.10		
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7	Select Features	<p>On the Select Features page, specify the features to remove from the specified instance of SQL Server.</p>	 <p>The screenshot shows the 'Select Features' step of the 'Remove SQL Server 2016' wizard. On the left, a navigation pane lists steps: Global Rules, Select Instance, Select Features (which is selected), Feature Rules, Ready to Remove, Removal Progress, and Complete. The main area is titled 'Select Features' with the sub-instruction 'The SQL Server features on this computer are shown below. To remove a feature, select the checkbox next to the feature name.' A table on the right lists features under three categories: 'COMP4681', 'Shared Features', and 'Redistributable Features'. Under 'COMP4681', several checkboxes are checked, including 'Database Engine Services', 'SQL Server Replication', 'Analysis Services', and 'Reporting Services - Native'. Under 'Shared Features', 'Client Tools Connectivity' is checked. Under 'Redistributable Features', none are checked.</p> <table border="1"> <thead> <tr> <th>Features:</th> <th>Description:</th> </tr> </thead> <tbody> <tr> <td>COMP4681</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> Database Engine Services</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> SQL Server Replication</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> Analysis Services</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> Reporting Services - Native</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> Shared Features</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> Client Tools Connectivity</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Client Tools Backwards Compatibility</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Client Tools SDK</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Documentation Components</td> <td></td> </tr> <tr> <td><input type="checkbox"/> SQL Client Connectivity SDK</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Redistributable Features</td> <td></td> </tr> </tbody> </table>	Features:	Description:	COMP4681		<input checked="" type="checkbox"/> Database Engine Services		<input checked="" type="checkbox"/> SQL Server Replication		<input checked="" type="checkbox"/> Analysis Services		<input checked="" type="checkbox"/> Reporting Services - Native		<input checked="" type="checkbox"/> Shared Features		<input checked="" type="checkbox"/> Client Tools Connectivity		<input type="checkbox"/> Client Tools Backwards Compatibility		<input type="checkbox"/> Client Tools SDK		<input type="checkbox"/> Documentation Components		<input type="checkbox"/> SQL Client Connectivity SDK		<input type="checkbox"/> Redistributable Features	
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8	<p>On the Ready to Remove page, review the list of components and features that will be uninstalled. Select Remove to begin uninstalling</p>	 <p>The screenshot shows the 'Remove SQL Server 2016' dialog box. In the center, it says 'Complete' and 'Your SQL Server 2016 removal completed successfully.' Below this, there's a table titled 'Information about the Setup operation or possible next steps:' with two columns: 'Feature' and 'Status'. All listed items have a green checkmark and the status 'Succeeded':</p> <table border="1"> <thead> <tr> <th>Feature</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>Client Tools Connectivity</td> <td>Succeeded</td> </tr> <tr> <td>Client Tools SDK</td> <td>Succeeded</td> </tr> <tr> <td>Client Tools Backwards Compatibility</td> <td>Succeeded</td> </tr> <tr> <td>Database Engine Services</td> <td>Succeeded</td> </tr> <tr> <td>SQL Server Replication</td> <td>Succeeded</td> </tr> <tr> <td>Reporting Services - Native</td> <td>Succeeded</td> </tr> </tbody> </table> <p>At the bottom, it says 'Summary log file has been saved to the following location:' followed by a link: 'C:\Program Files\Microsoft SQL Server\130\Setup Bootstrap\Log\20230210_111103\Summary_DESKTOP-GV9UQAV 20230210 111103.txt'. A 'Close' button is at the bottom right.</p>	Feature	Status	Client Tools Connectivity	Succeeded	Client Tools SDK	Succeeded	Client Tools Backwards Compatibility	Succeeded	Database Engine Services	Succeeded	SQL Server Replication	Succeeded	Reporting Services - Native	Succeeded
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9	<p>Refresh the Apps and Features window to verify the SQL Server instance has been removed successfully, and determine which, if any, SQL Server components still exist. Remove these components from this window as well, if you so choose.</p>															

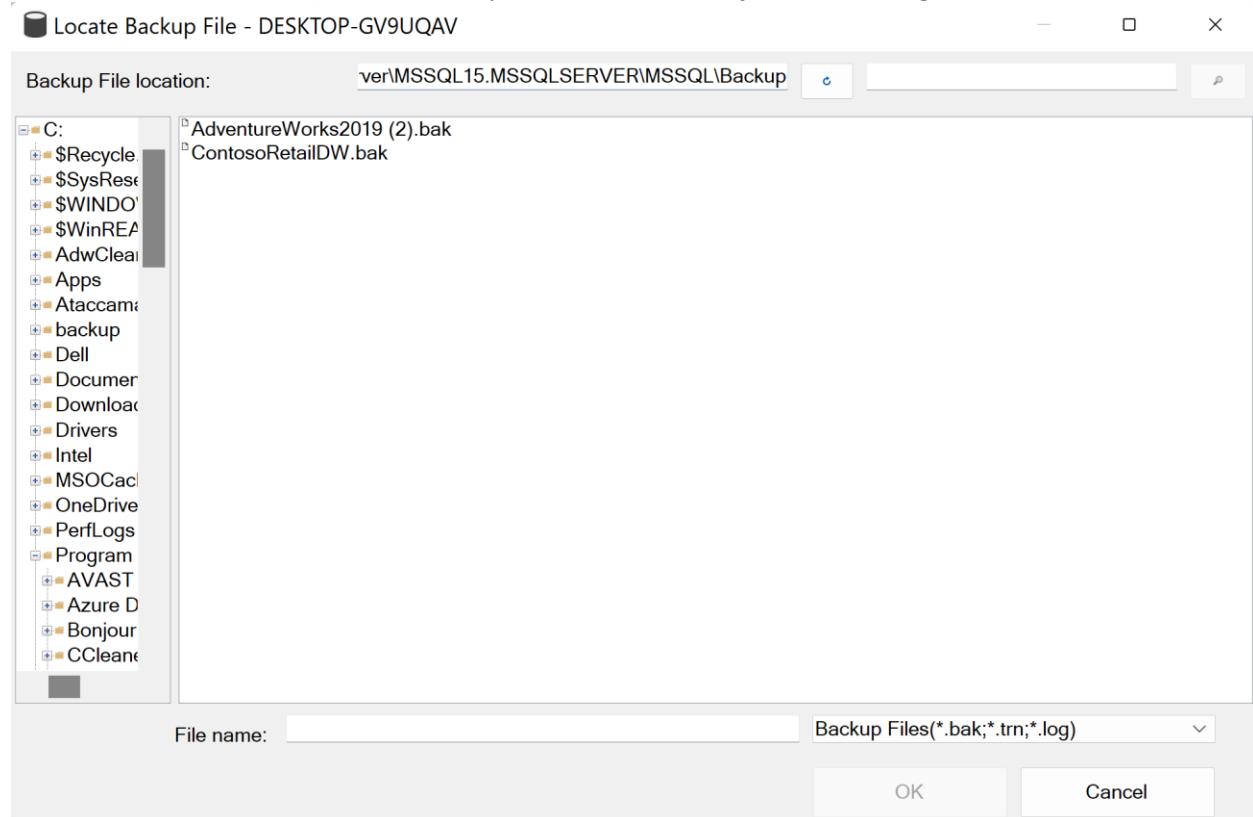
Restore Databases:-

Restore Contoso and Adventure Works sample database, configure it

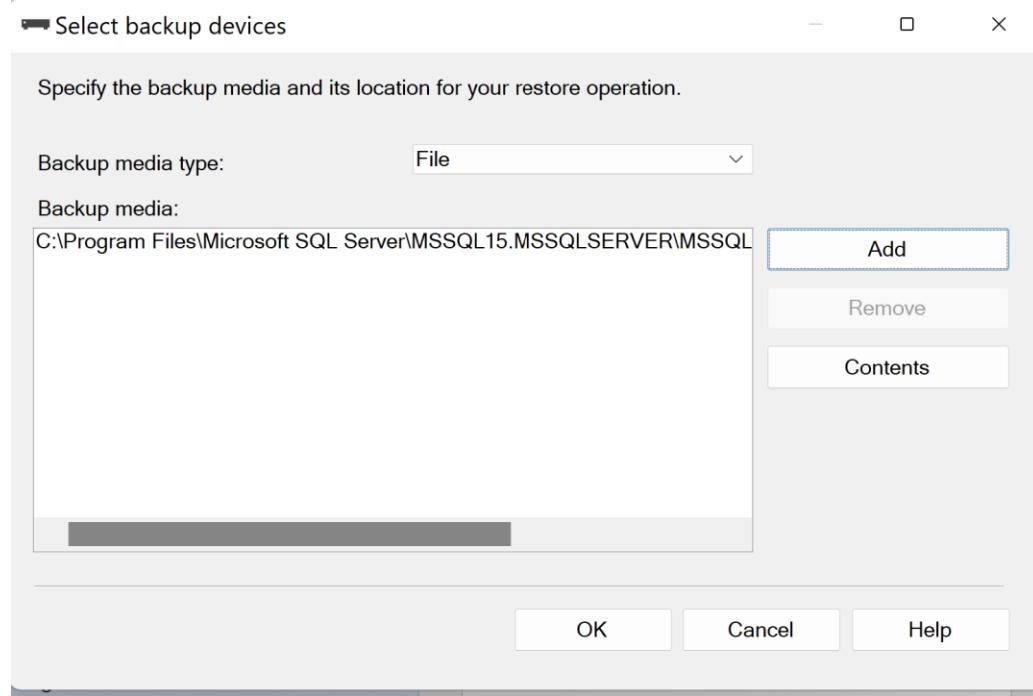
1. In **Object Explorer**, connect to an instance of the SQL Server Database Engine and then expand that instance.
2. Right-click **Databases** and select **Restore Database....**



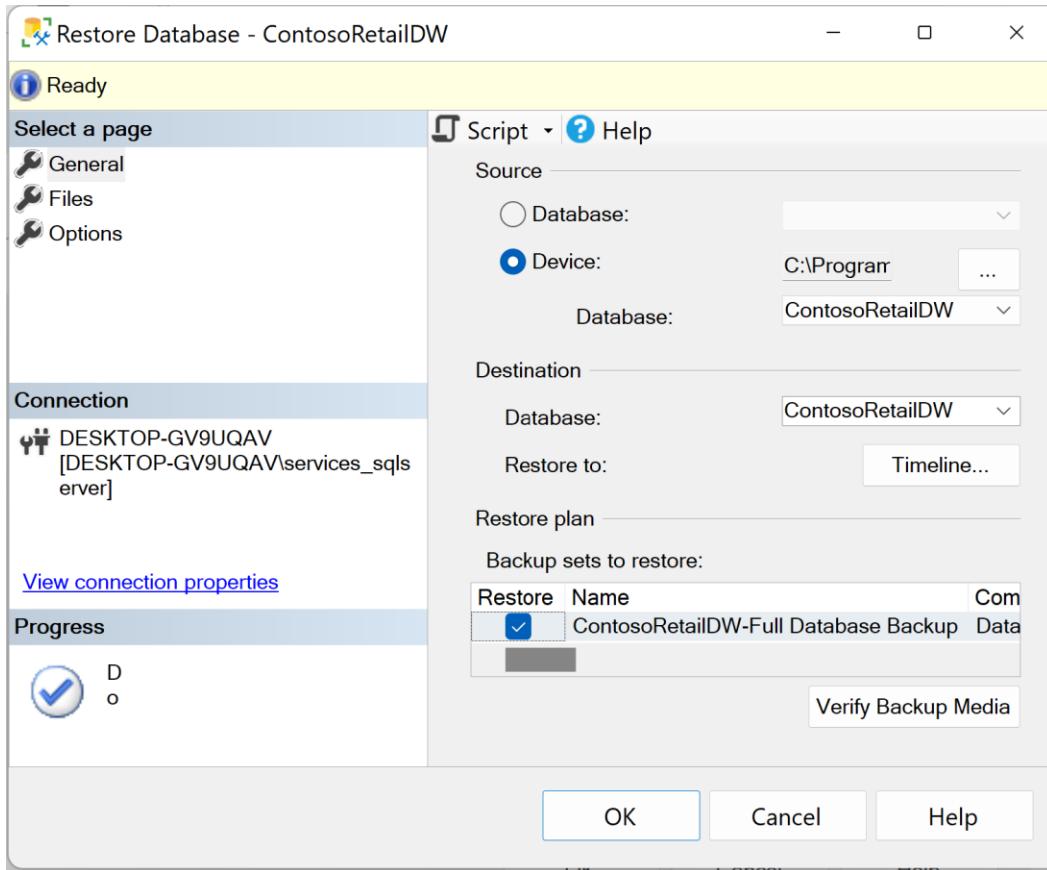
3. On the **General** page, select **Device** under the **Source** section.
4. Select the browse (...) button to open the **Select backup devices** dialog box.



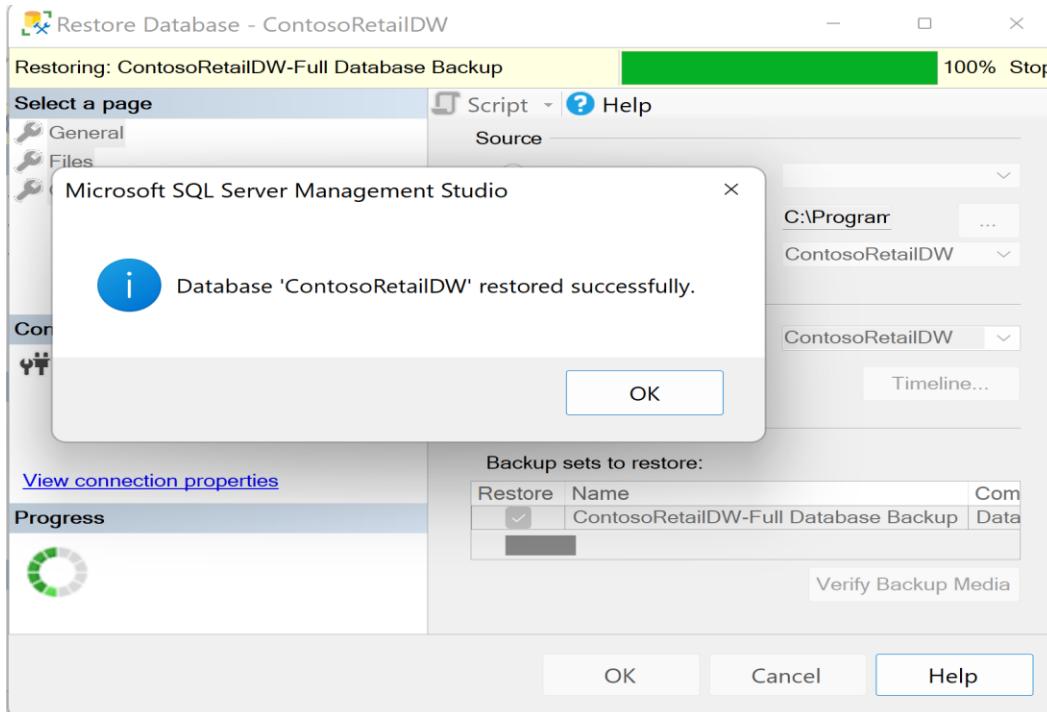
5. Select **URL** from the **Backup media type:** drop-down list.



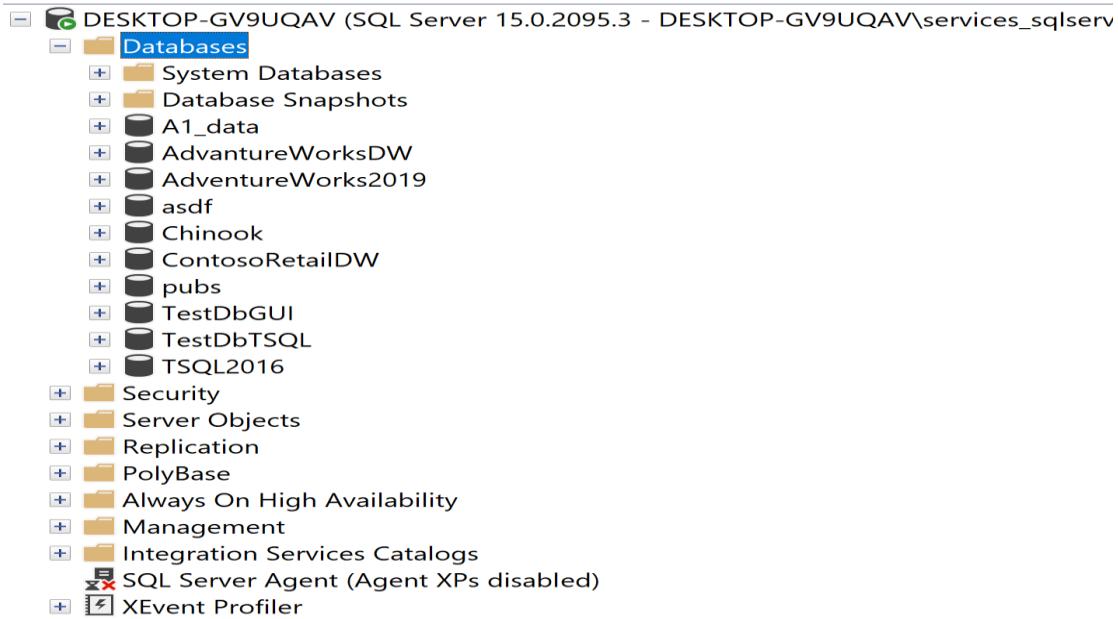
6. Select **Add** and the **Select a Backup File Location** dialog box open



7. Click ok to restore Database



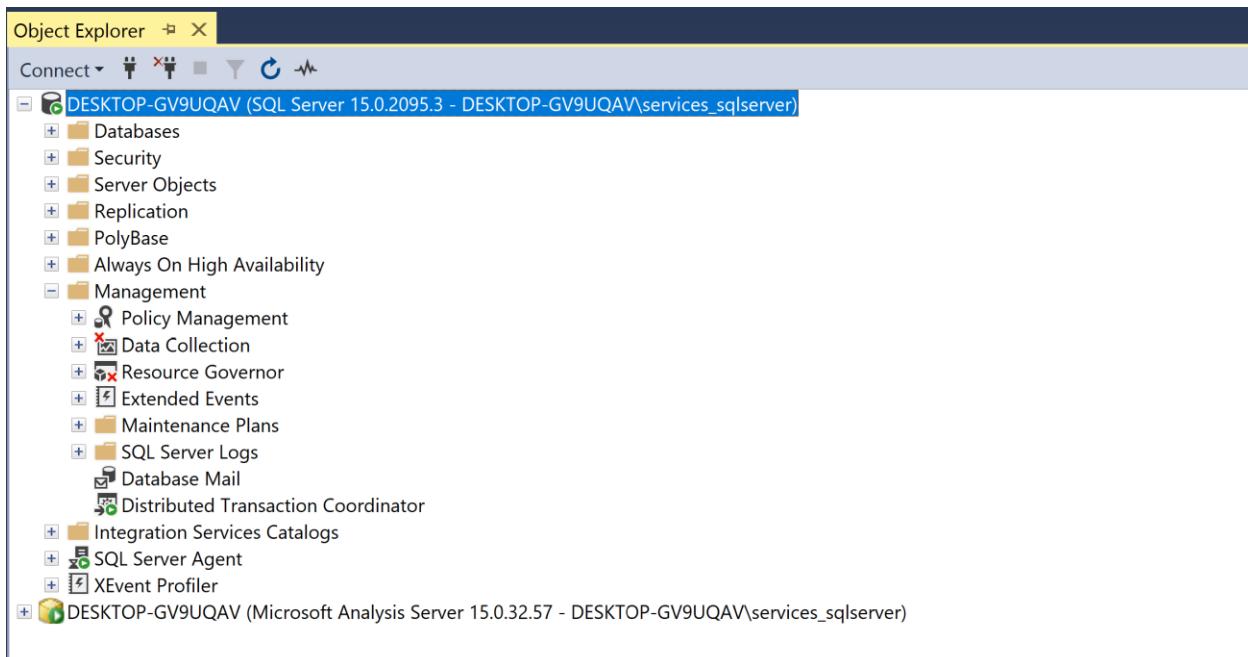
8. After Restoring databases if you expand database in **object explorer** you will see your restored Database.



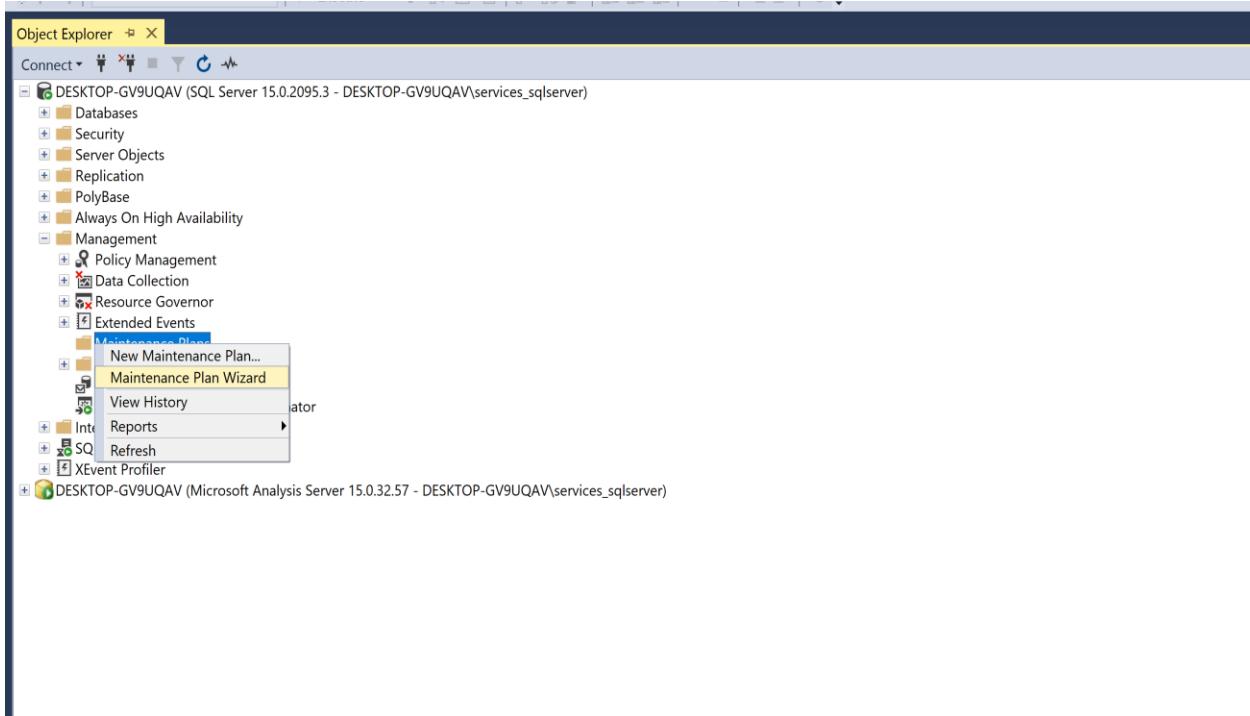
Configuration:-

- Configure database maintenance plan

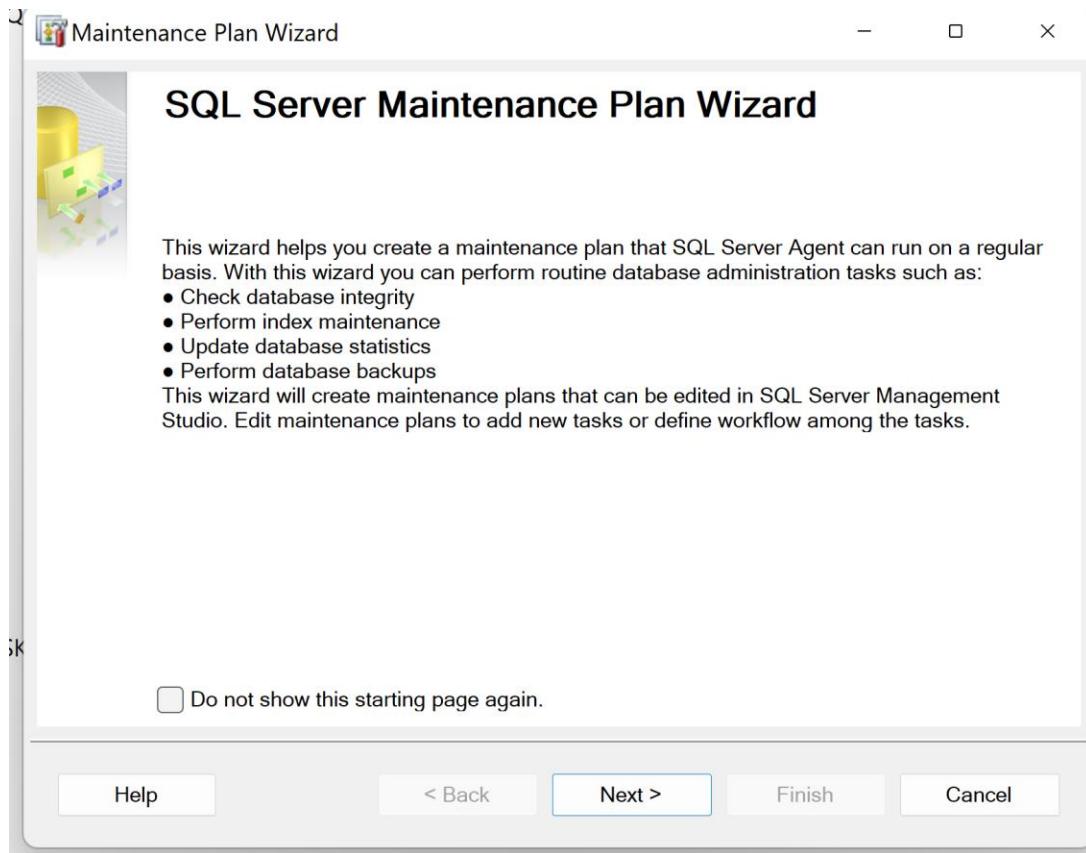
1. In Object Explorer, click the plus sign to expand the server where you want to create a maintenance plan.
2. Click the plus sign to expand the **Management** folder.

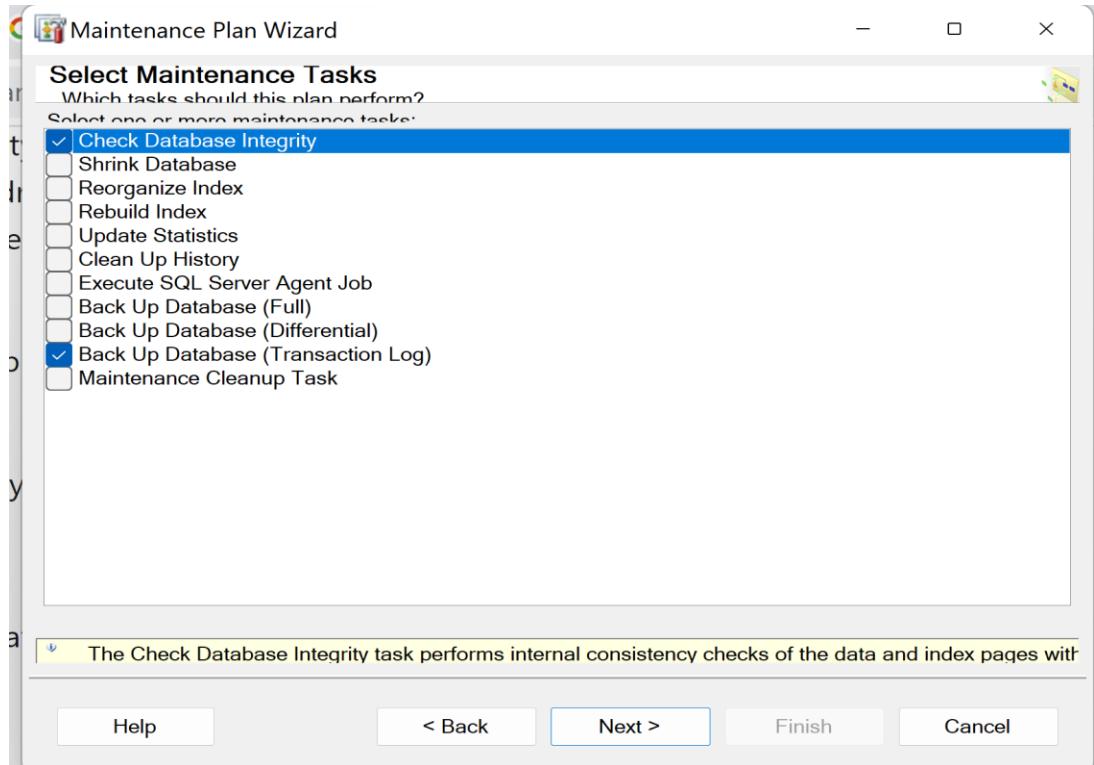


3. Right-click the Maintenance Plans folder and select Maintenance Plan Wizard.

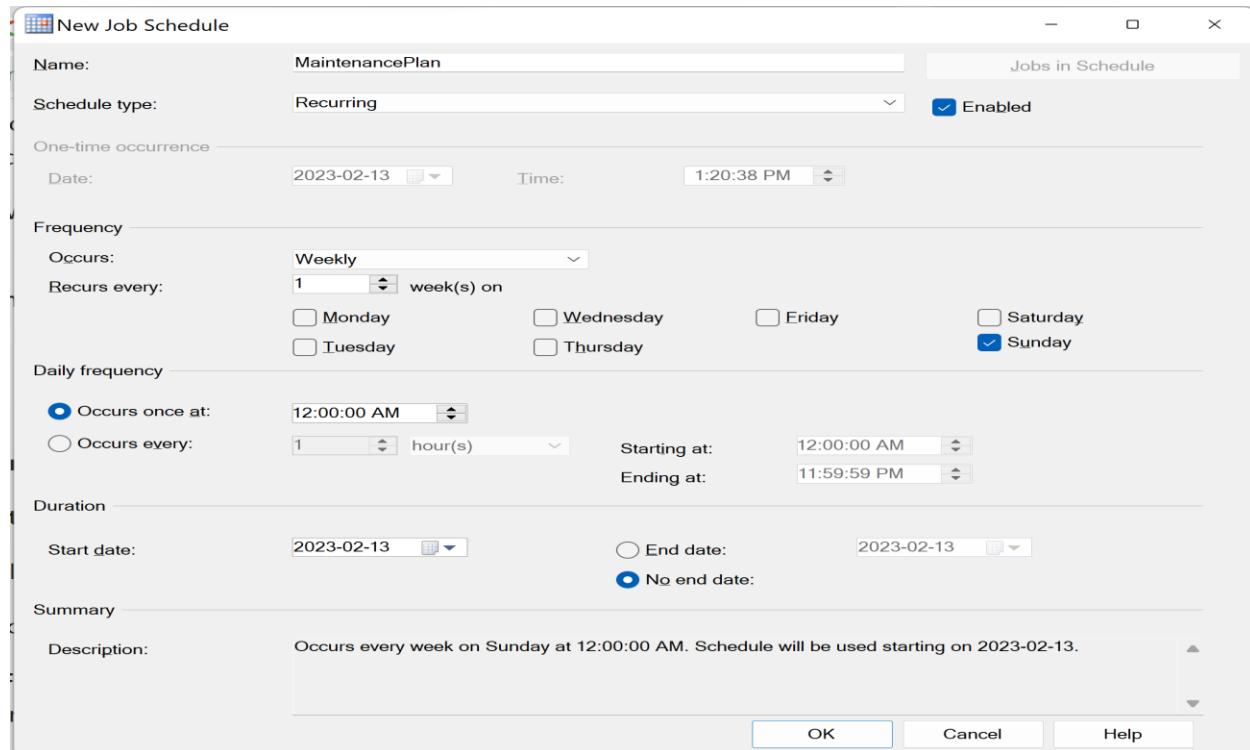


4. Follow the steps of the wizard to create a maintenance plan.

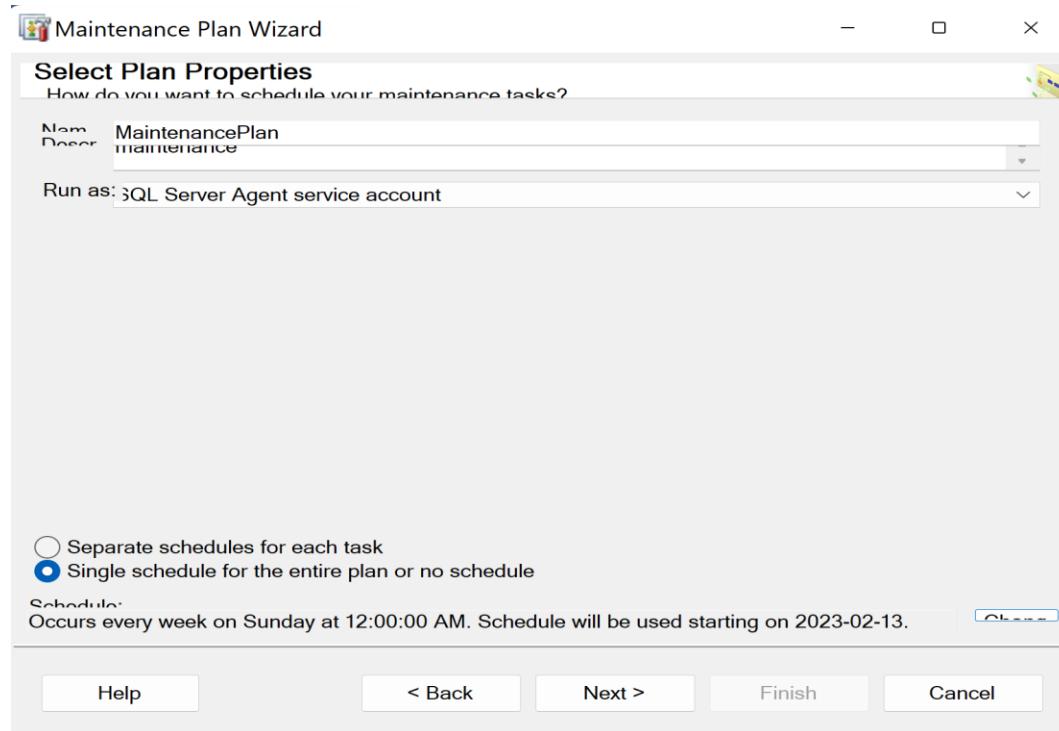




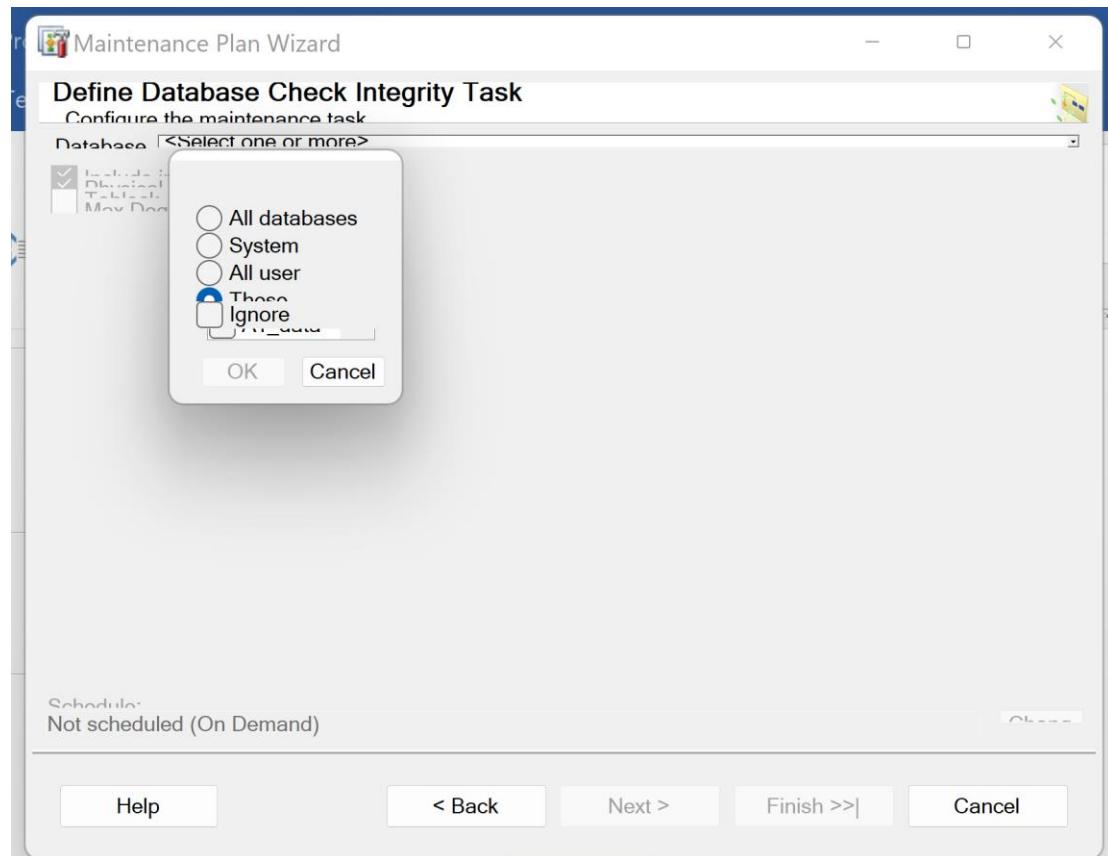
5. Fill in all the details On the **Select Plan Properties** page.



6. On the **Select Maintenance Tasks** page, select one or more maintenance tasks to add to the plan. When you have selected all of the necessary tasks, click **Next**.



7. On the **Select Maintenance Task Order** page, select a task and click either **Move Up...** or **Move Down...** to change its order of execution. When finished, or if you are satisfied with the current order of tasks, click **Next**.



Schedule:
Not scheduled (On Demand)

Help

< Back

Next >

Finish >>

Cancel



Maintenance Plan Wizard
Verify the choices made in the wizard, and then click Finish.
Click Finish to perform the following actions:

Maintenance Plan Wizard

- + Create Maintenance Plan 'MaintenancePlan'
- + Define Database Check Integrity Task
- + Define Back Up Database (Transaction Log) Task
- + Selected reporting options

Help

< Back

Next >

Finish

Cancel

