Implementation Manual

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The implementation manual contains the steps to install SQL Server 2012 Enterprise edition.

Installing SQL Server 2012 Enterprise Edition

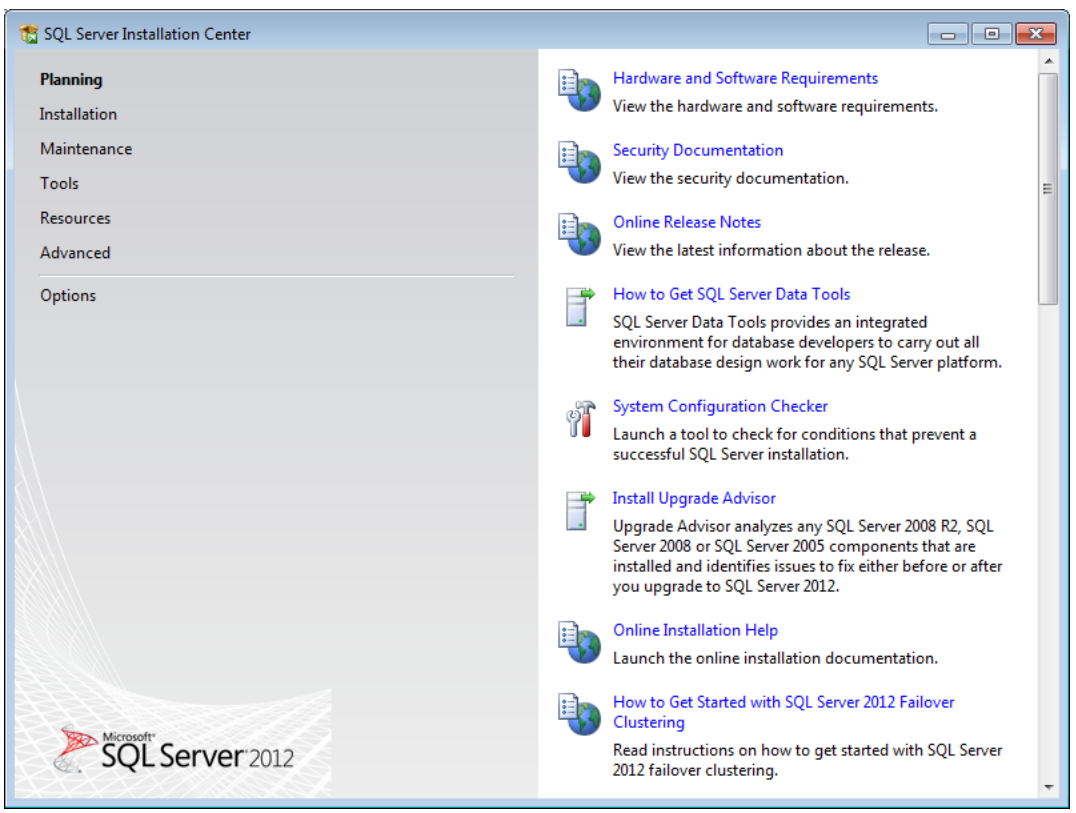
To install SQL Server 2012 Enterprise edition, you need to perform the following tasks:

1. Install and Configure SQL Server 2012.
2. Attach AdventureWorks Database.
3. Create Users on SQL Server.

Task 1: Installing and Configuring SQL Server 2012

To install and configure SQL Server 2012, you need to perform the following steps:

1. Insert the SQL Server 2012 DVD into the DVD drive.
2. Browse to the DVD drive.
3. Double-click the **Setup.exe** file. After a few moments, the **SQL Server Installation Center** window appears, as shown in the following figure.



The SQL Server Installation Center Window

Note

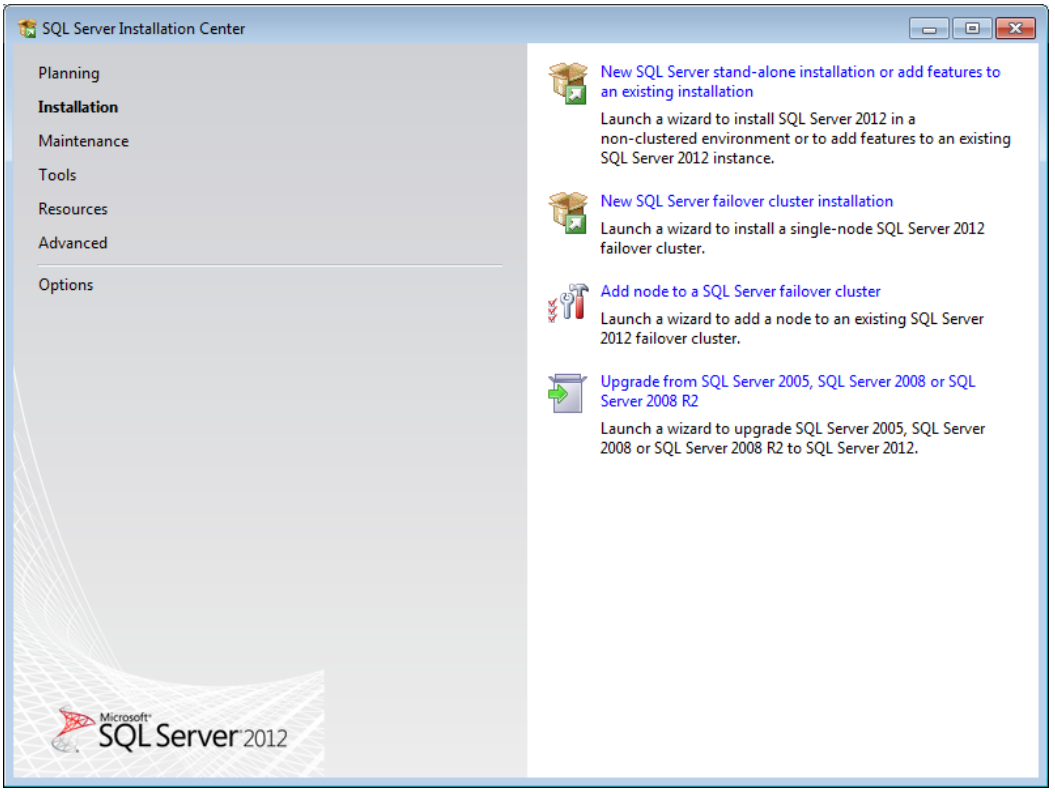
*If the **User Account Control** dialog box is displayed, click the **Yes** button.*

Note

*The **SQL Server 2012** message box may be displayed for a while during the installation process, as shown in the following figure.*

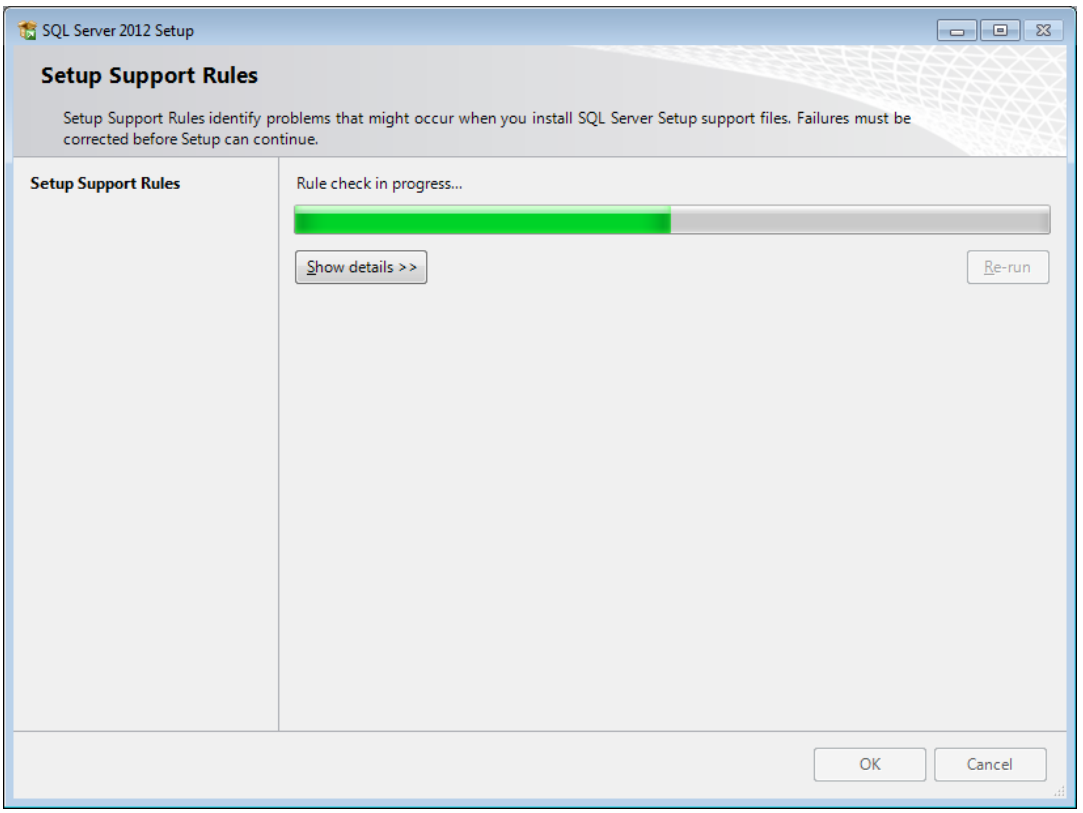
The SQL Server 2012 Message Box

4. Click the **Installation** link in the left pane. The various links are displayed in the right pane of the **SQL Server Installation Center** window, as shown in the following figure.



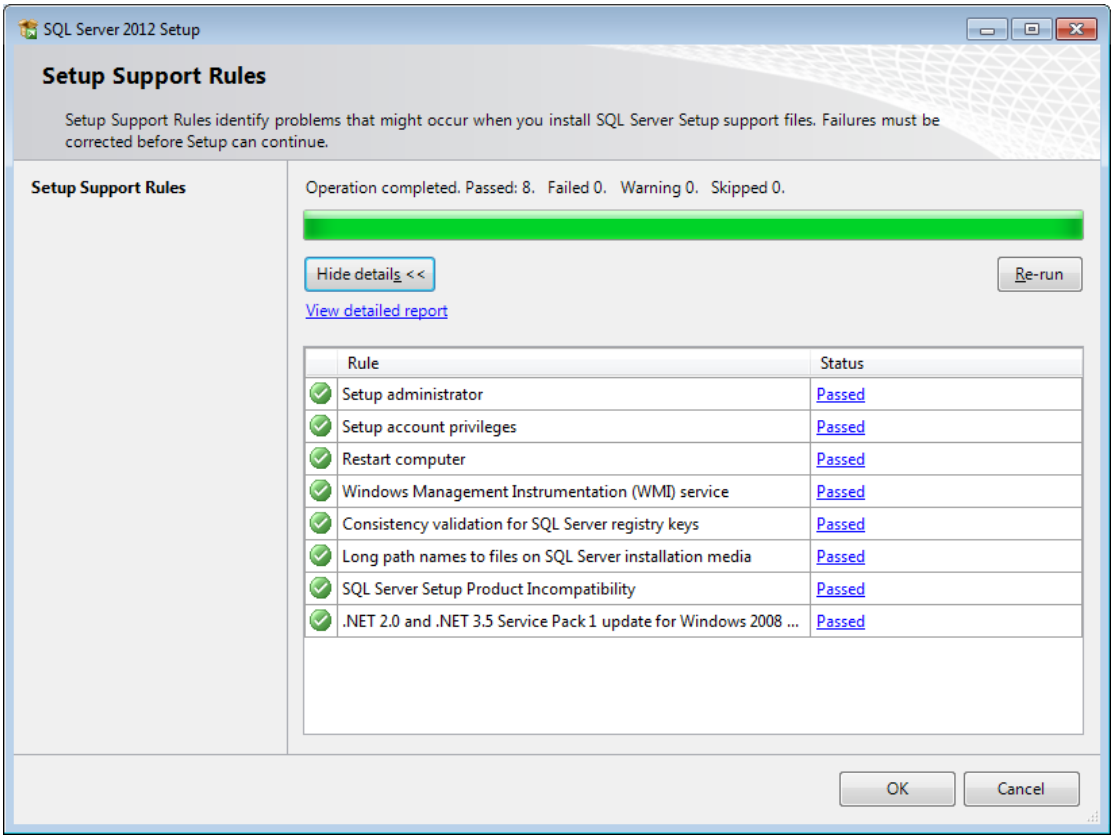
The SQL Server Installation Center Window

5. Click the **New SQL Server stand-alone installation or add features to an existing installation** link in the right pane. The **SQL Server 2012 Setup** window is displayed after a while, as shown in the following figure.



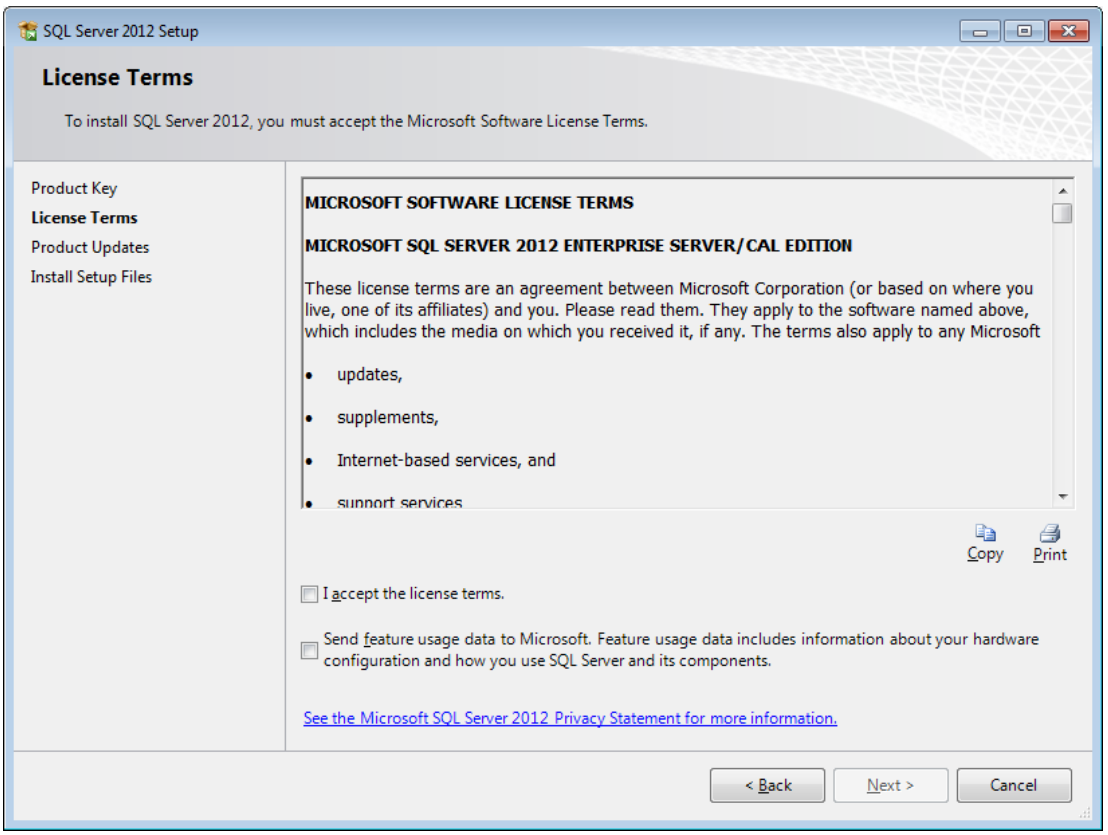
The SQL Server 2012 Setup Window

6. Click the **Show details** button. The details of the SQL Server setup support files are displayed in the **Setup Support Rules** page, as shown in the following figure.



The Setup Support Rules Page

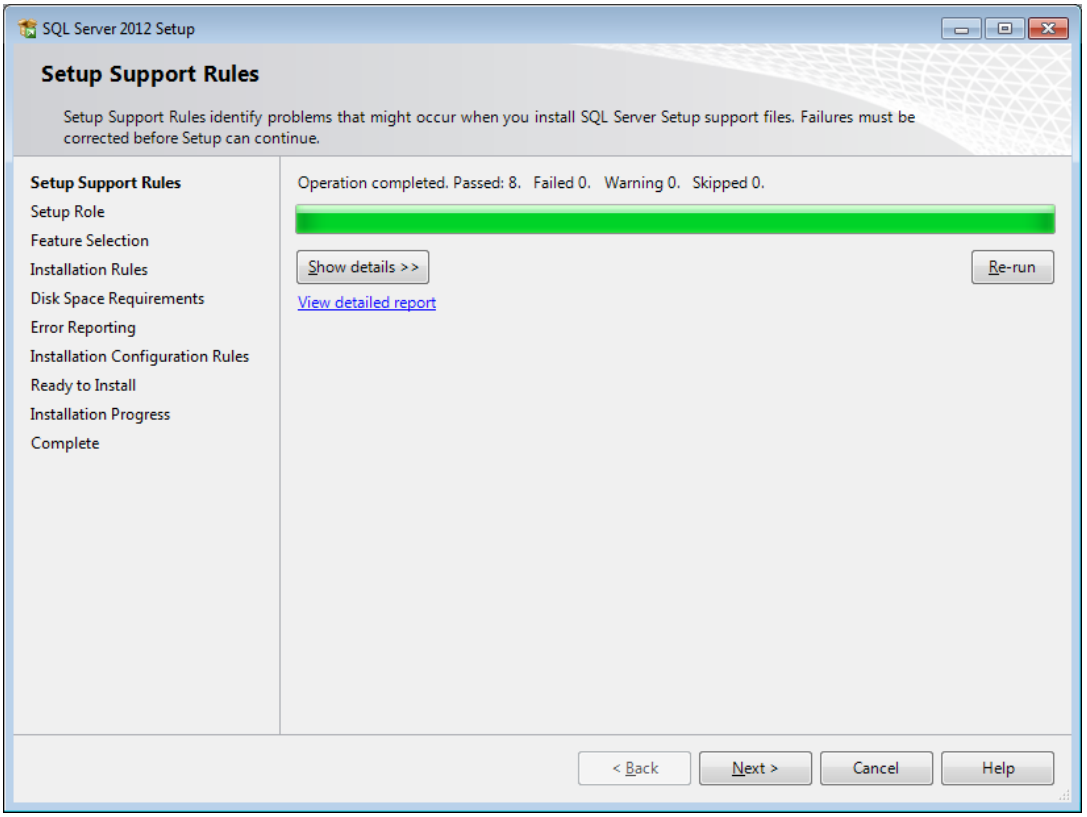
7. Click the **OK** button. After a few moments, the **Product Key** page is displayed.
8. Ensure that the **Enter the product key** option is selected and the product key is displayed in the text box provided under the **Enter the product key** option.
9. Click the **Next** button. The **License Terms** page is displayed, as shown in the following figure.



The License Terms Page

10. Select the **I accept the license terms** check box.

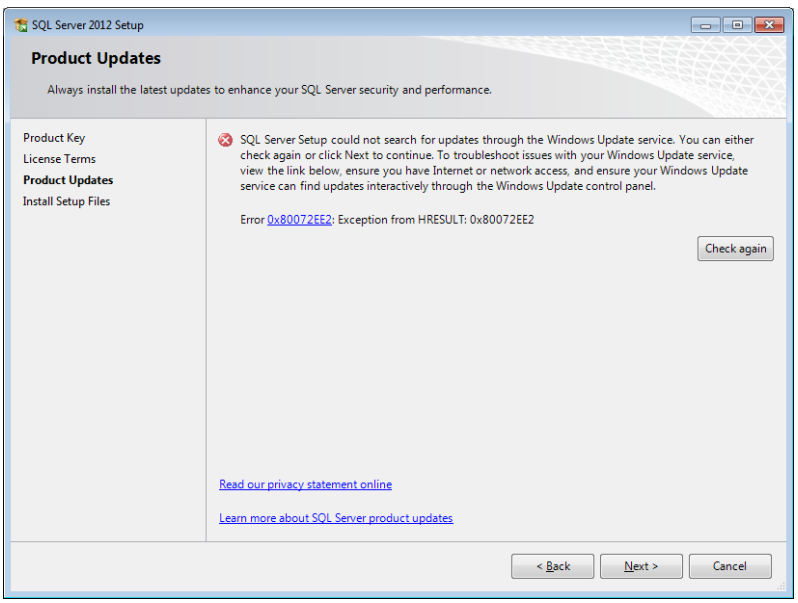
11. Click the **Next** button. The **Install Setup Files** page is displayed for a few moments, and then the **Setup Support Rules** page is displayed, as shown in the following figure.



The Setup Support Rules Page

Note

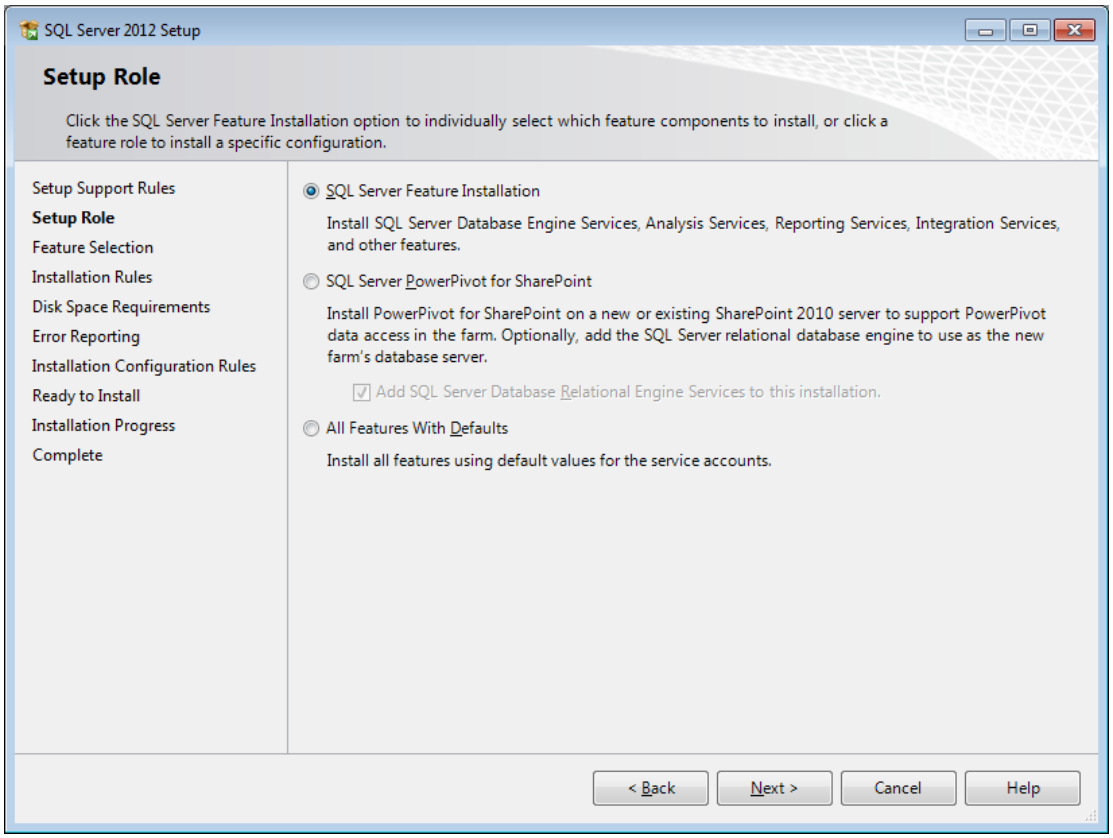
While installing, the SQL Server Setup searches for updates through the Windows Update service. If it fails to search for the updates, the ***Product Updates*** *page is displayed.*



The Product Updates Page

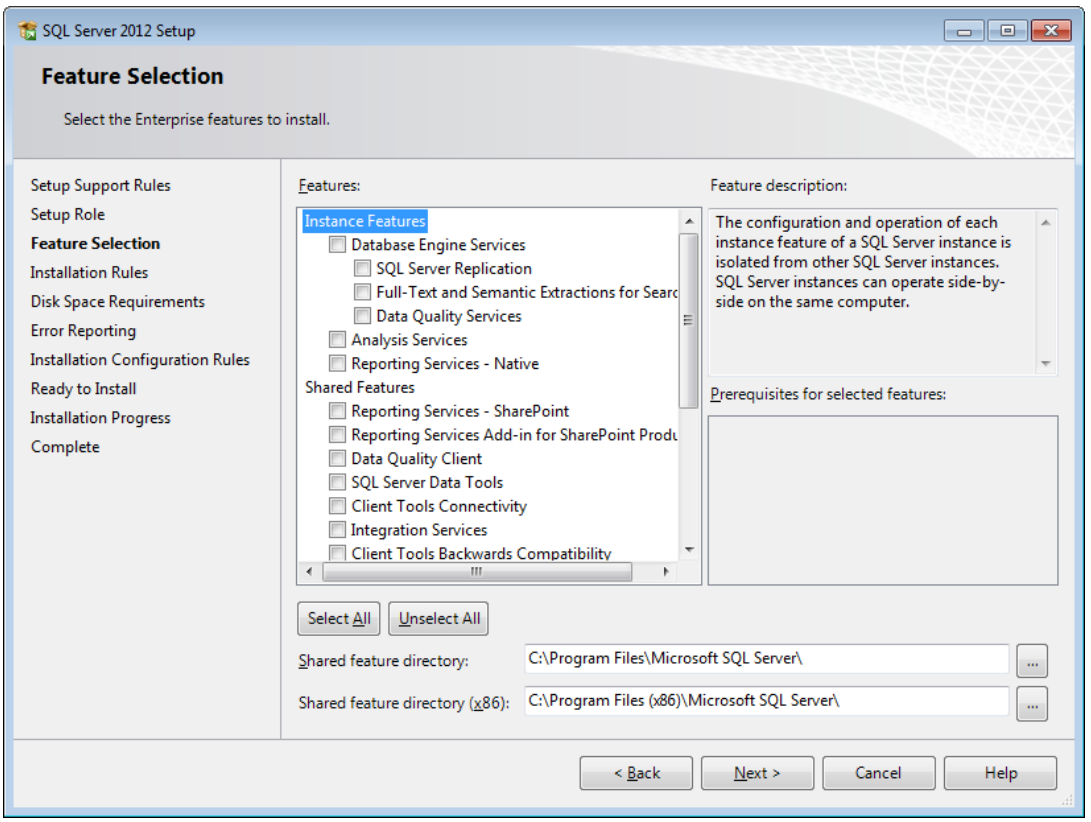
Click the ***Next*** *button to continue.*

12. Click the **Next** button. The **Setup Role** page is displayed, as shown in the following figure.



The Setup Role Page

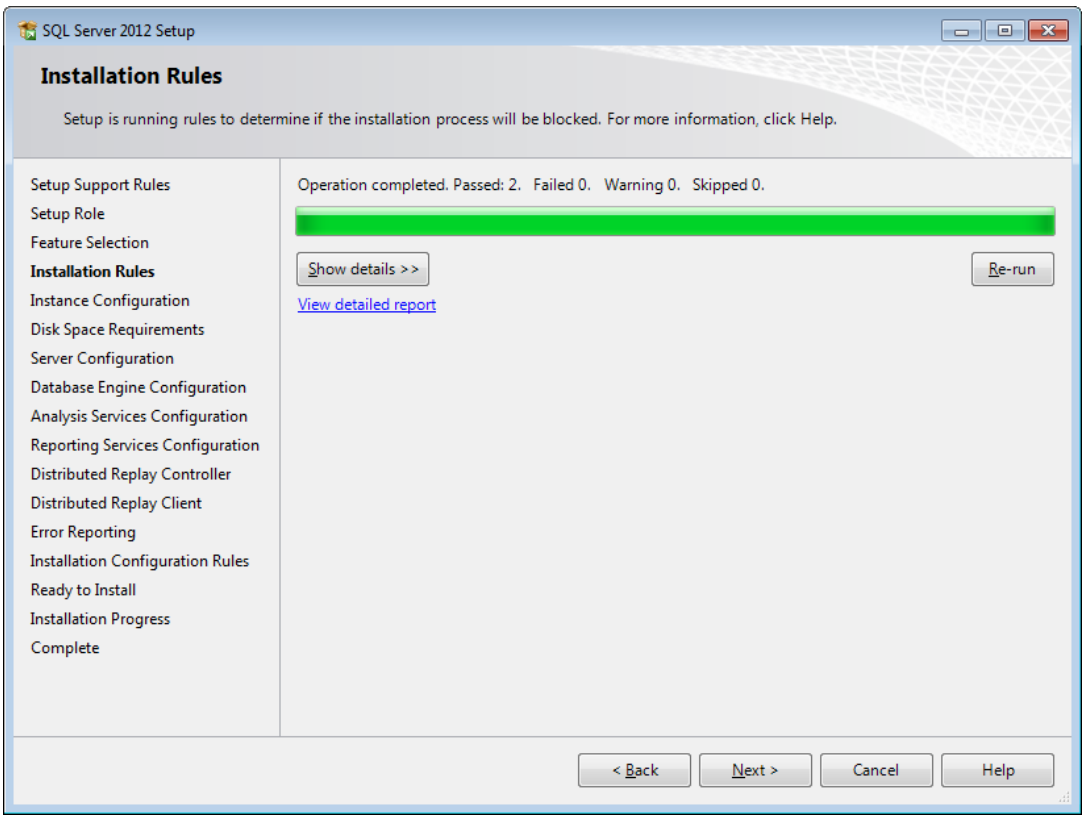
13. Click the **Next** button. The **Feature Selection** page is displayed, as shown in the following figure.



The Feature Selection Page

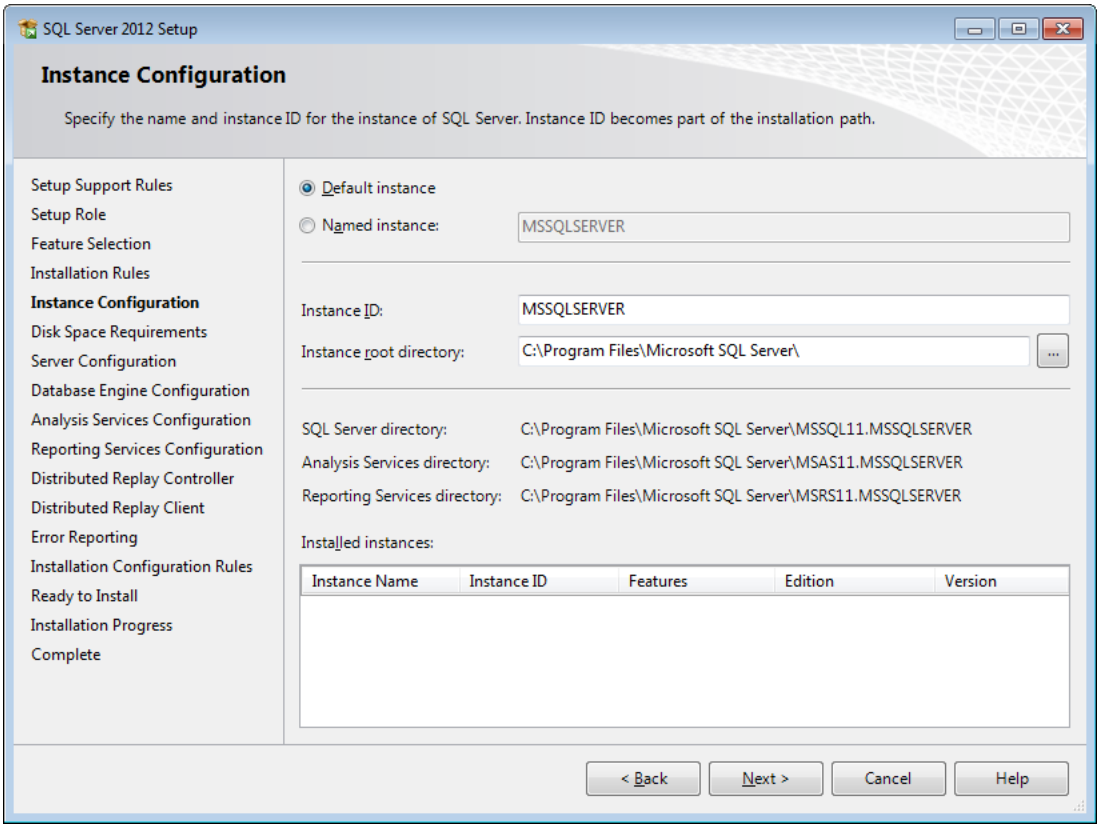
14. Click the **Select All** button in the right pane.

15. Click the **Next** button. The **Installation Rules** page is displayed, as shown in the following figure.



The Installation Rules Page

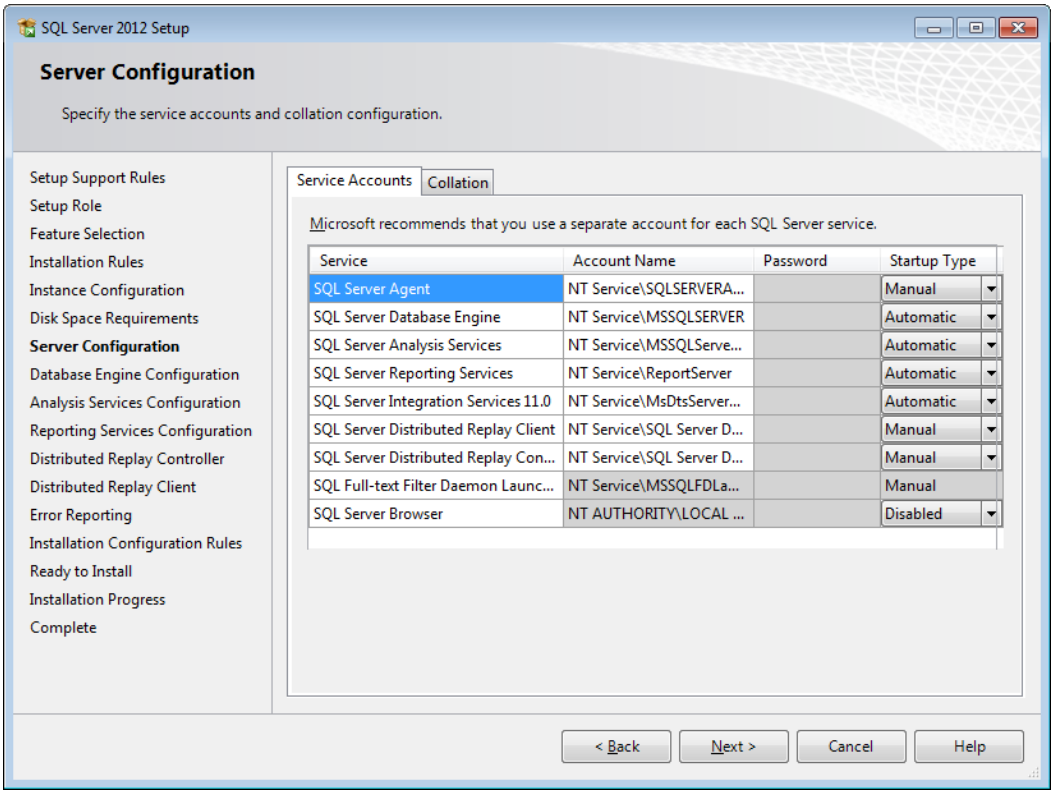
16. Click the **Next** button. The **Instance Configuration** page is displayed, as shown in the following figure.



The Instance Configuration Page

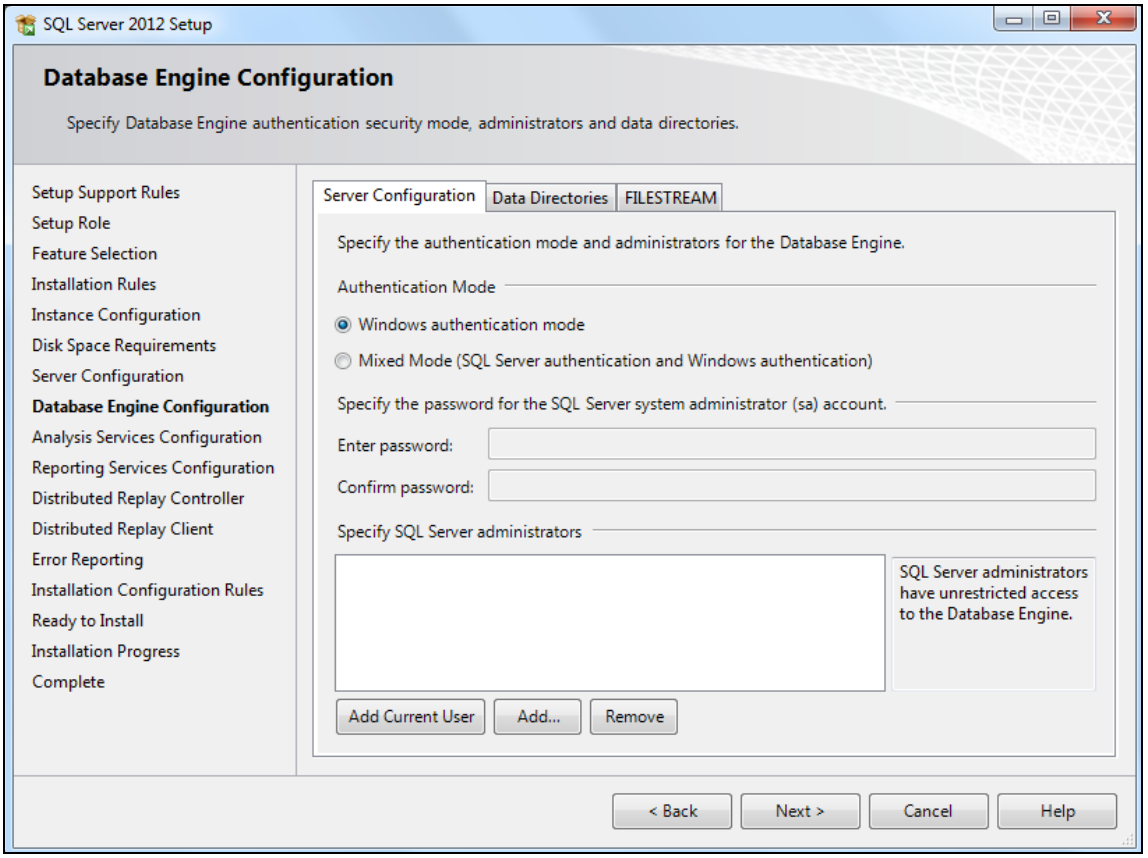
17. Ensure that the **Default instance** option is selected.
18. Click the **Next** button. After a few moments, the **Disk Space Requirements** page is displayed.

19. Click the **Next** button. The **Server Configuration** page is displayed, as shown in the following figure.



The Server Configuration Page

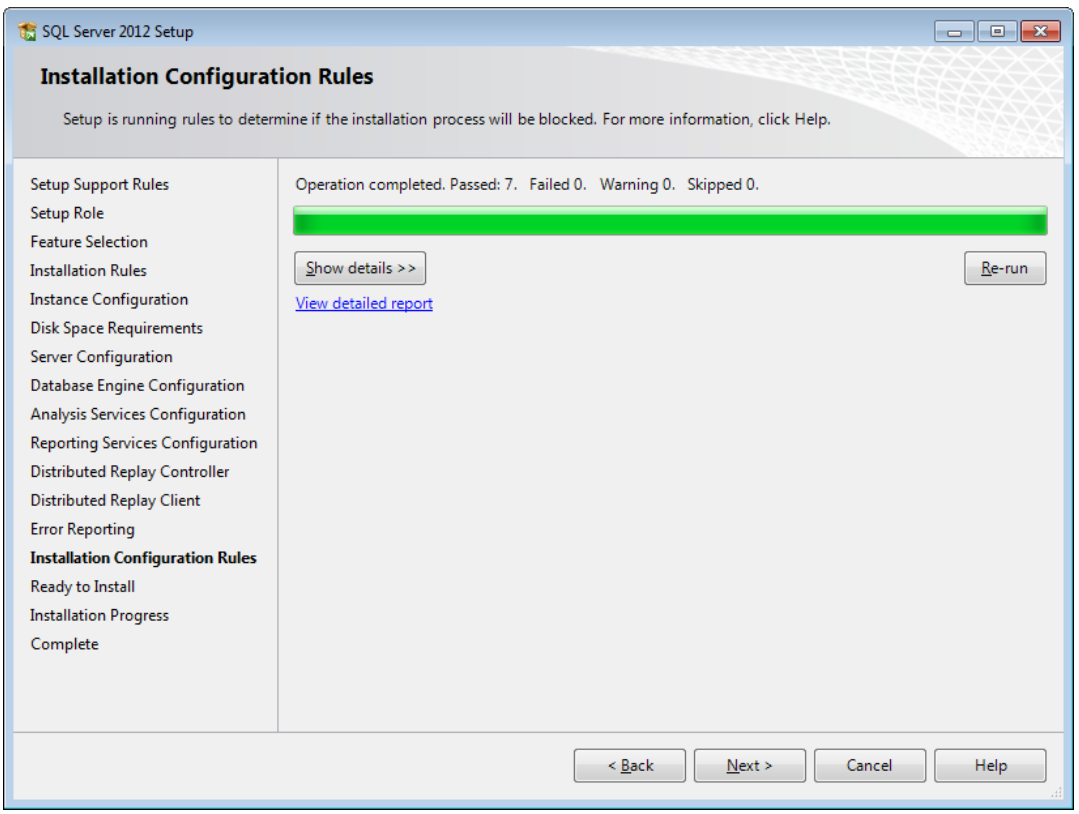
20. Click the **Next** button. The **Database Engine Configuration** page is displayed, as shown in the following figure.



The Database Engine Configuration Page

21. Select the **Mixed Mode (SQL Server authentication and Windows authentication)** option in the right pane.
22. Enter the password for the **sa** user account in the **Enter password** text box.
23. Enter the same password in the **Confirm password** text box.
24. Click the **Add Current User** button. The name of the current user is displayed in the **Specify SQL Server administrators** text area.
25. Select the **FILESTREAM** tab.
26. Select the **Enable FILESTREAM for Transact-SQL access** check box to enable FILESTREAM on this instance of SQL Server.
27. Select the **Enable FILESTREAM for file I/O access** check box.
28. Select the **Allow remote clients access to FILESTREAM data** check box.
29. Click the **Next** button. The **Analysis Services Configuration** page is displayed.
30. Click the **Add Current User** button in the right pane. The name of the current user is displayed in the **Specify which users have administrative permissions for Analysis Services** text area.

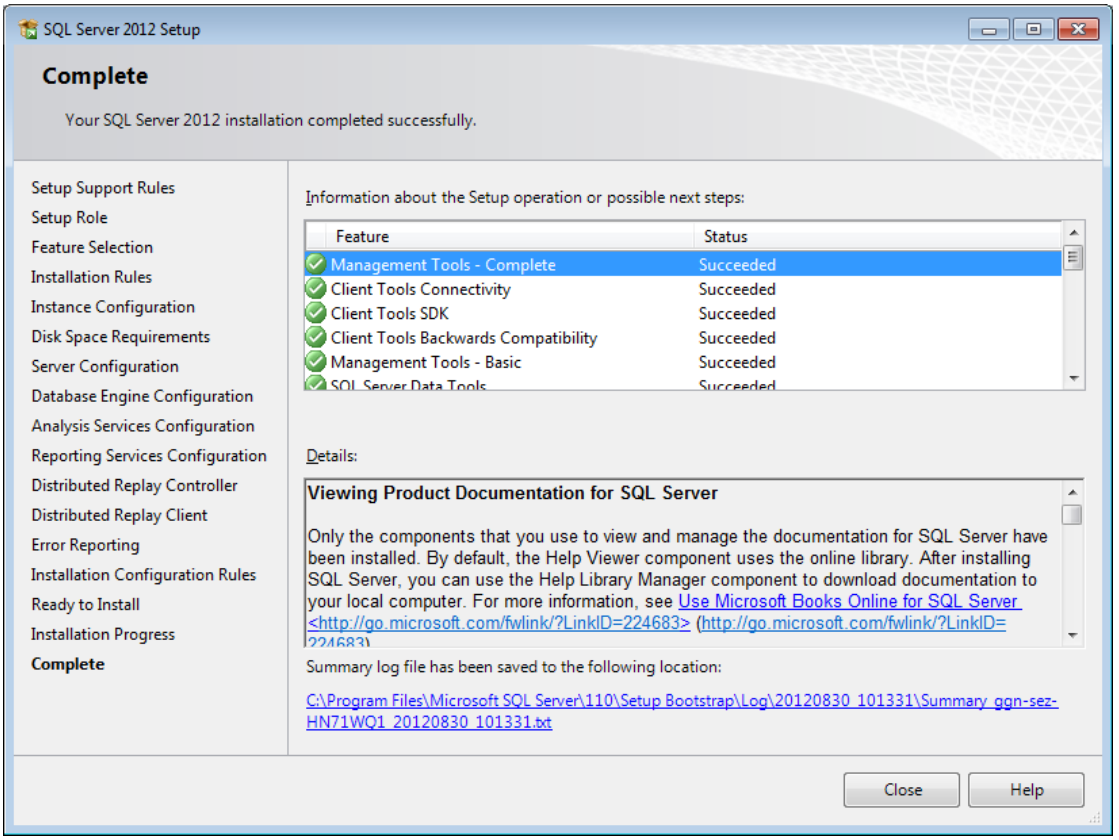
31. Click the **Next** button. The **Reporting Services Configuration** page is displayed.
32. Click the **Next** button. The **Distributed Replay Controller** page is displayed.
33. Click the **Add Current User** button in the right pane. The name of the current user is displayed in the **Specify which users have permissions for the Distributed Replay Controller service** text area.
34. Click the **Next** button. The **Distributed Replay Client** page is displayed.
35. Click the **Next** button. The **Error Reporting** page is displayed.
36. Click the **Next** button. The **Installation Configuration Rules** page is displayed, as shown in the following figure.



The Installation Configuration Rules Page

37. Click the **Next** button. The **Ready to Install** page is displayed.

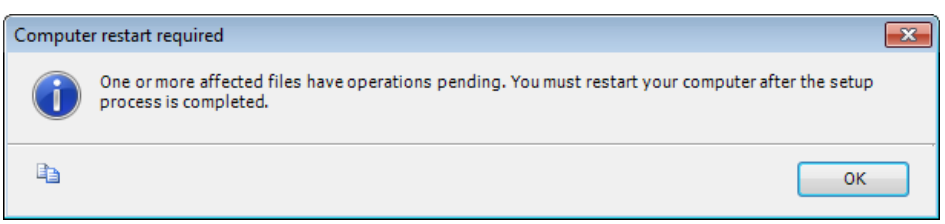
38. Click the **Install** button. The **Installation Progress** page is displayed for 20-25 minutes, and then the **Complete** page is displayed, as shown in the following figure.



The Complete Page

Note

*Along with the **Complete** page, the **Computer restart required** dialog box may also be displayed, as shown in the following figure.*



The Computer restart required Dialog Box

*Click the **OK** button.*

39. Click the **Close** button. The **SQL Server Installation Center** window is displayed.
40. Close the **SQL Server Installation Center** window.

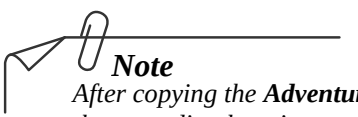
Task 2: Attaching AdventureWorks Database

After installing the SQL Server instance, you need to attach the AdvetureWorks database to this instance. To attach the AdventureWorks database, the **AdventureWorks_Data.mdf** and **AdventureWorks_Log.ldf** files are provided at the following location in the TIRM CD:

- **Datafiles For Faculty\SQL**

To attach the AdventureWorks database, you need to perform the following steps:

1. Copy the **AdventureWorks_Data.mdf** and **AdventureWorks_Log.ldf** files at the following location of your system:
   - **C:\Program Files\Microsoft SQL Server\MSSQL11.MSSQLSERVER\MSSQL\DATA**



Note

*After copying the **AdventureWorks_Data.mdf** and **AdventureWorks_Log.ldf** files at the preceding location, ensure that the **Read-only** attribute of these files is removed.*

2. Select **Start→All Programs→Microsoft SQL Server 2012→SQL Server Management Studio**. The **Connect to Server** dialog box is displayed.
3. Ensure that the instance name you want to connect to is selected in the **Server name** combo box. If the default instance is installed on the system, then the name of the system is the instance name.
4. Select authentication as **SQL Server Authentication** from the **Authentication** drop-down list.
5. Type **sa** in the **Login** text box.
6. Type password for **sa** in the **Password** text box. For example, **password@123**.
7. Click the **Connect** button. The **Microsoft SQL Server Management Studio** window is displayed.
8. Click the **New Query** button on the **Standard** toolbar. The Query Editor window is displayed.
9. Type the following statements in the Query Editor window:

```
USE master
GO
EXEC sp_attach_db @dbname = N'AdventureWorks',
    @filename1 = N'C:\Program Files\Microsoft SQL
Server\MSSQL11.MSSQLSERVER\MSSQL\DATA\AdventureWorks_Data.mdf',
    @filename2 = N'C:\Program Files\Microsoft SQL
Server\MSSQL11.MSSQLSERVER\MSSQL\DATA\AdventureWorks_Log.ldf';
```

10. Press the **F5** key or click the **Execute** button on the **SQL Editor** toolbar to execute the preceding statements.

Task 3: Creating Users on SQL Server

For the task, you need to create the users on SQL Server, as shown in the following table.

S. No.	***User Name***	***Rights***
1.	*Kim*	*dbcreator, dbreader, dbwriter, ddladmin*
2.	*Angela*	*dbcreator, dbreader, dbwriter, ddladmin*
3.	*Robert*	*dbcreator, dbreader, dbwriter, ddladmin*

Creating the Users on SQL Server

To create the users, you need to perform the following steps:

1. Ensure that the SQL Server 2012 window is open and active.
2. Replace the query with the following query in the Query Editor window:

```
CREATE LOGIN Kim
WITH PASSWORD = 'password@123',
DEFAULT_DATABASE = AdventureWorks

CREATE LOGIN Angela
WITH PASSWORD = 'password@123',
DEFAULT_DATABASE = AdventureWorks

CREATE LOGIN Robert
WITH PASSWORD = 'password@123',
DEFAULT_DATABASE = AdventureWorks
GO

USE AdventureWorks
GO
CREATE USER Kim
FOR LOGIN Kim

CREATE USER Robert
FOR LOGIN Robert


CREATE USER Angela
FOR LOGIN Angela
GO

exec sp_addrolemember 'db_datareader','Robert'
exec sp_addrolemember 'db_datawriter','Robert'
exec sp_addrolemember 'db_ddladmin','Robert'
exec sp_addsrvrolemember 'Robert', 'dbcreator'
exec sp_addrolemember 'db_datareader','Kim'
exec sp_addrolemember 'db_datawriter','Kim'
exec sp_addrolemember 'db_ddladmin','Kim'
```

```
exec sp_addsrvrolemember 'Kim', 'dbcreator'
exec sp_addrolemember 'db_datareader','Angela'
exec sp_addrolemember 'db_datawriter','Angela'
exec sp_addrolemember 'db_ddladmin','Angela'
exec sp_addsrvrolemember 'Angela', 'dbcreator'
```

3. Press the **F5** key to execute the preceding statement.
4. Close the SQL Server 2012 window without saving any query.