shelby

v.5

How To

Install SQL Server
2008 R2 Express

Important Note

If you are still on MSDE 2000, click this link:

[Migrating MSDE to Microsoft SQL 2008 R2 Express](#)

Introduction

This document will explain how to install **Microsoft® SQL Server® 2008 R2 Express** for use with a new installation of Shelby v.5. Please allow 30 minutes for the download over a fast broadband connection and about an hour to install the program.

Before starting you must determine:

- Whether you have a 32-bit or 64-bit Windows operating system. If you do not know, ask your network tech.
- Which drive on the server has the most free disk space; you will want to install to that drive. If you have multiple drives, we recommend that you use a drive other than "C:".
- Are you running a Domain Network or a Work Group? If you do not know, ask your network tech.

NOTE: Be sure to make a backup of your SQL Data folder and a full Shelby v.5 database backup if performing these steps on your existing Shelby v.5 database server. Click [this link](#) for instructions on performing a full database backup.

Getting Started

The first step is to make sure you do not have any programs running on the server. Next, confirm that you are logged on to your server as a Domain Administrator if you are running a Domain Network, or as the Local Administrator of the server if you are on a Work Group. After confirming this you can download Microsoft SQL Server 2008 Express R2 by clicking the following link:
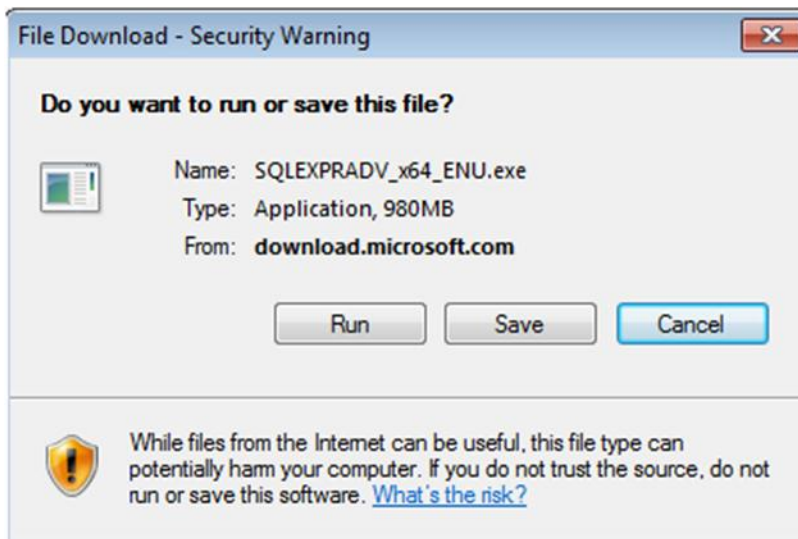
http://www.microsoft.com/download/en/details.aspx?id=26729

If your server's Windows install is 64-bit, select the **SQLEXPRADV_x64_ENU.exe** download. If your server's Windows install is 32-bit, select the **SQLEXPRADV_x86_ENU.exe** download.
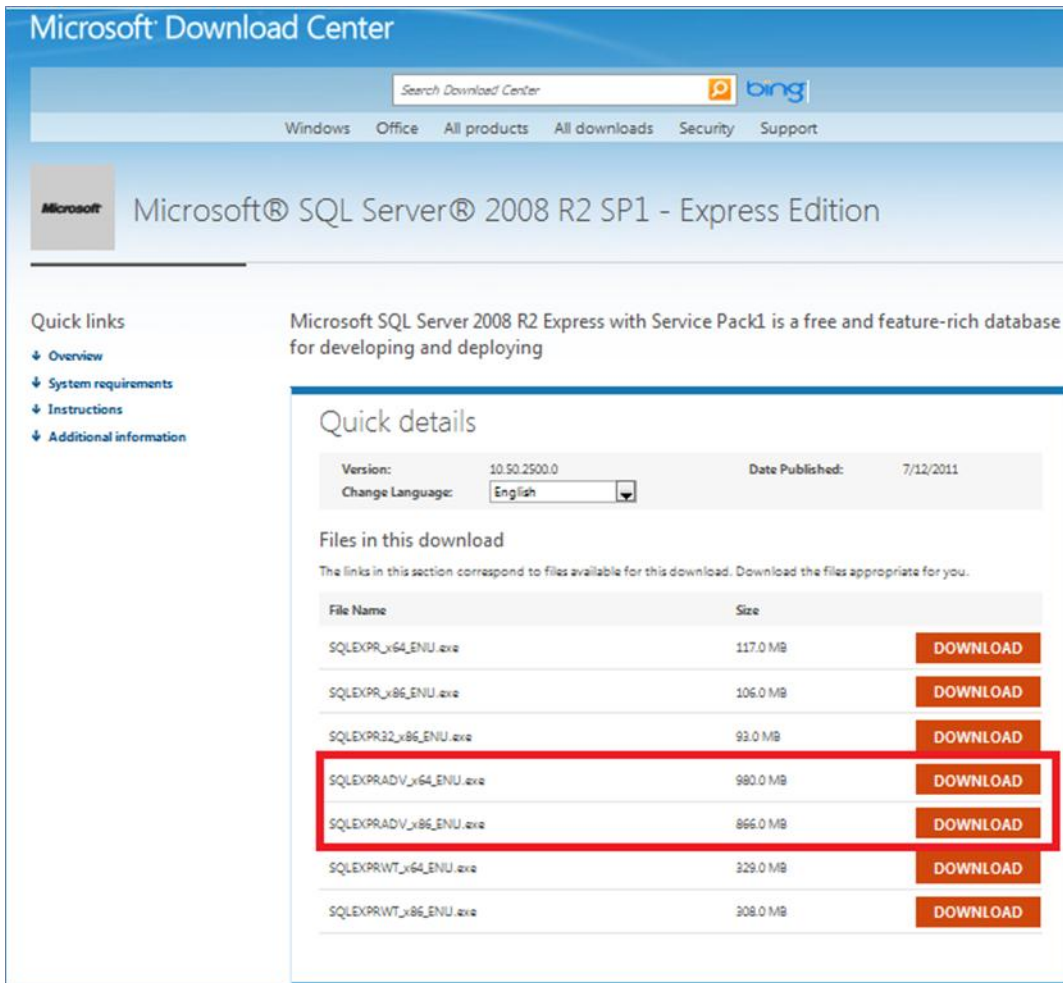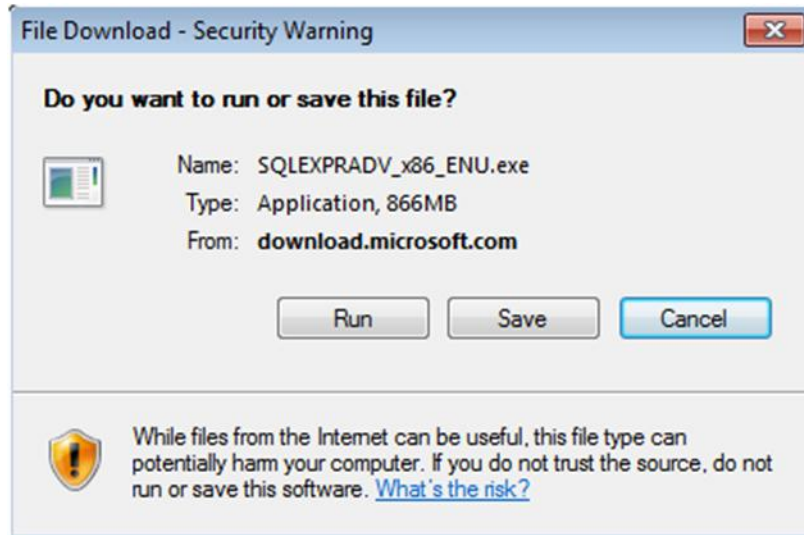

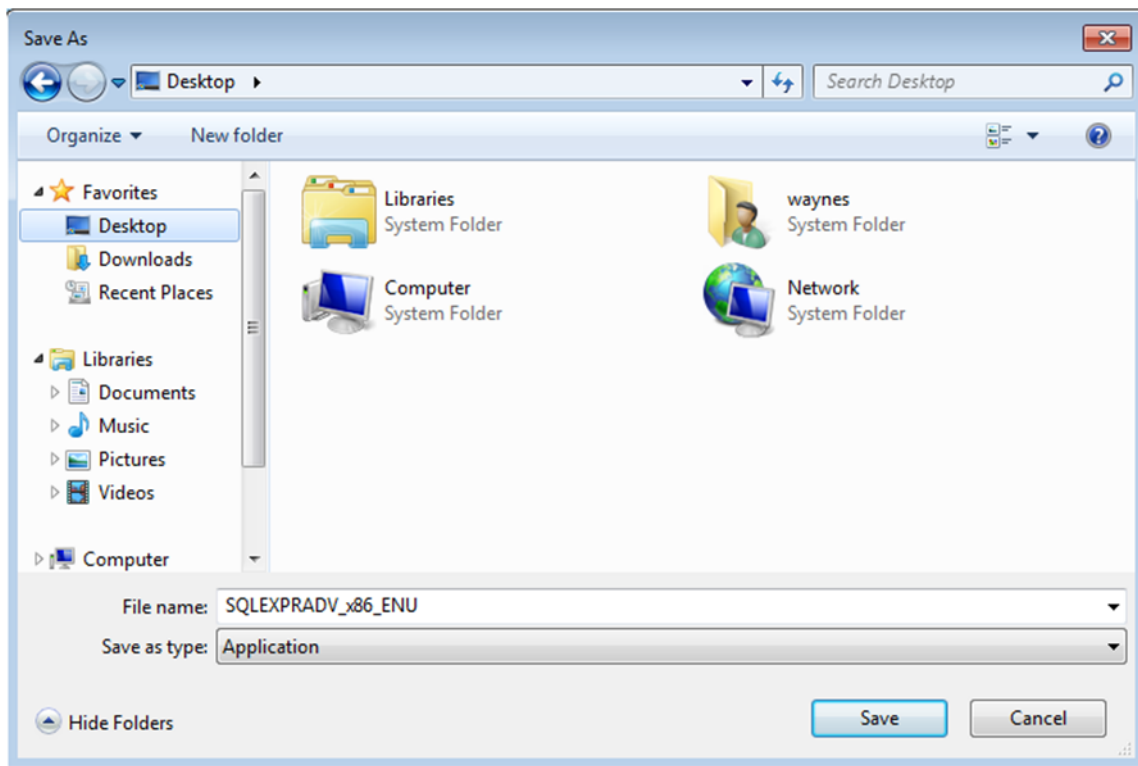The next screen will prompt you to run or save the installer executable, choose **Save**.
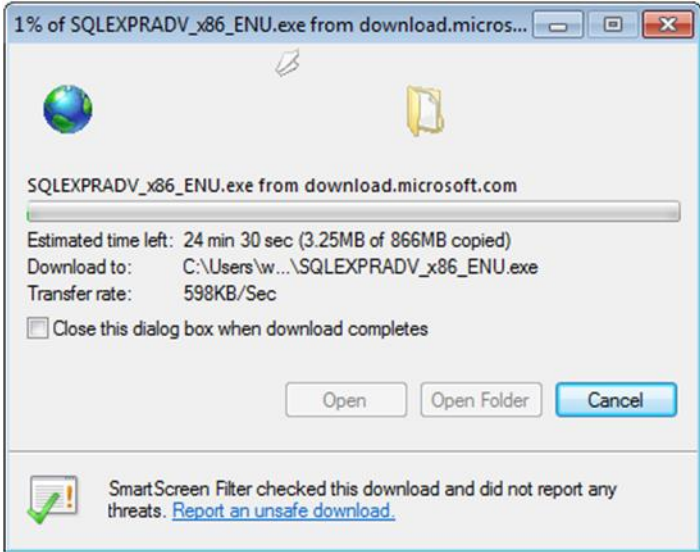
Example: 64-bit download.

Example: 32-bit download.

Choose a location to which to save. From this point forward, we will be using the 32-bit file in our examples.

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Please allow 30 minutes to an hour for the download; the time will vary depending on the speed of your broadband internet connection.
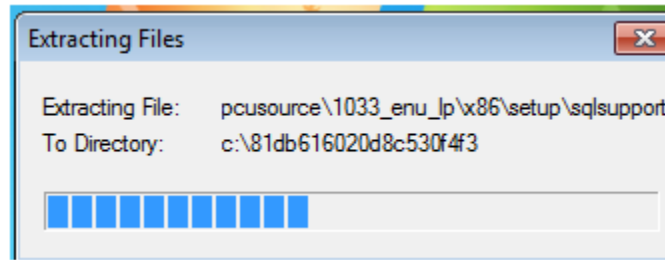

Installing SQL Server 2008 R2 Express

Make sure you are logged into your server as an administrator and double-click the installer file that you downloaded (e.g., SQLEXPRADV_x86_ENU.exe).
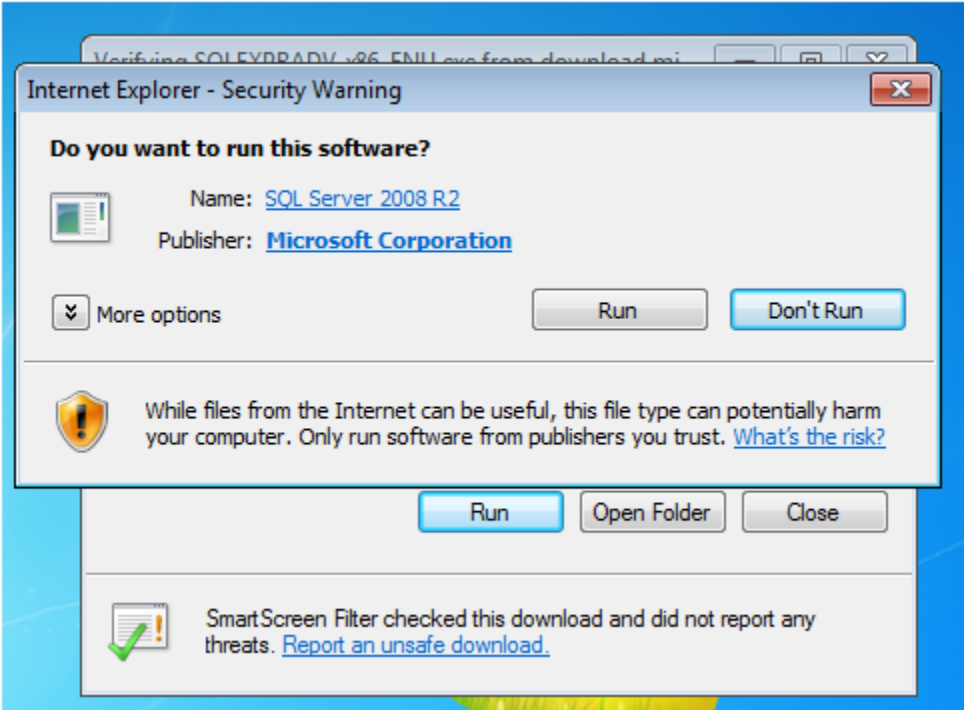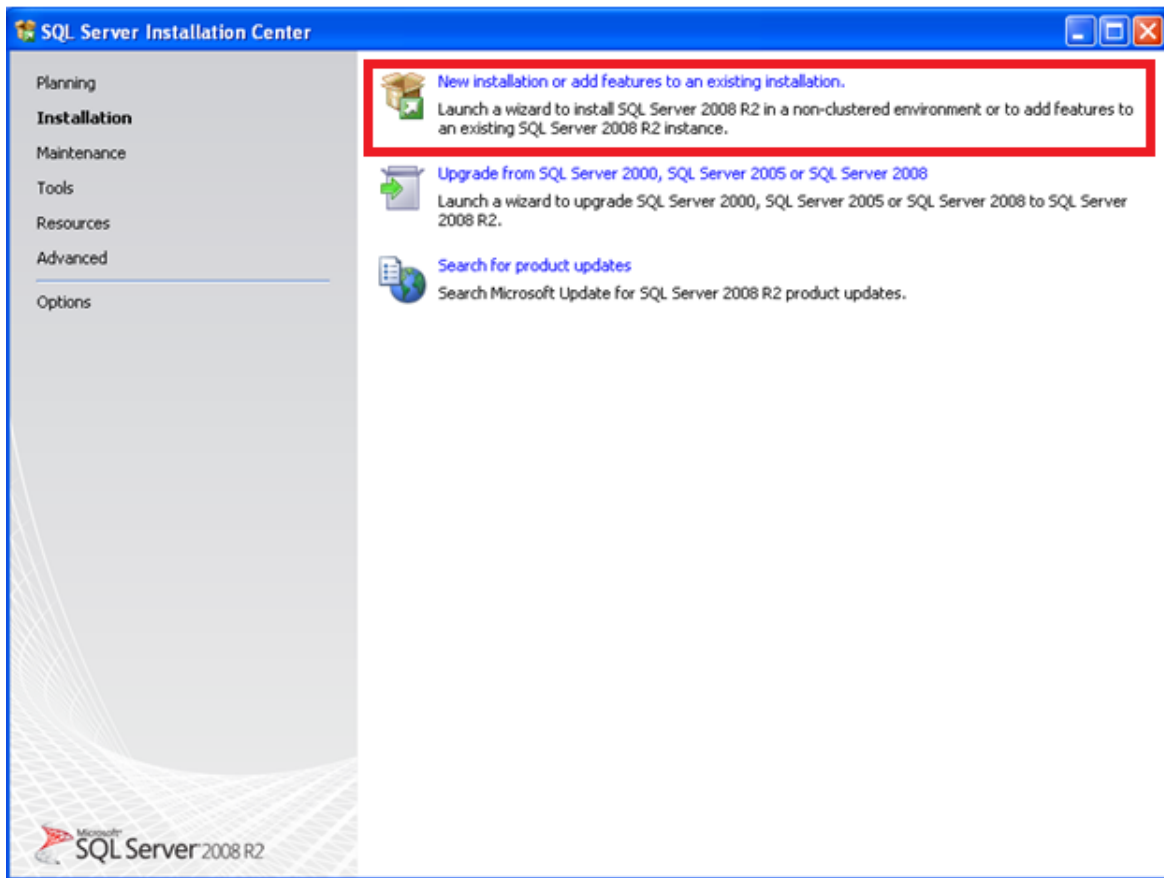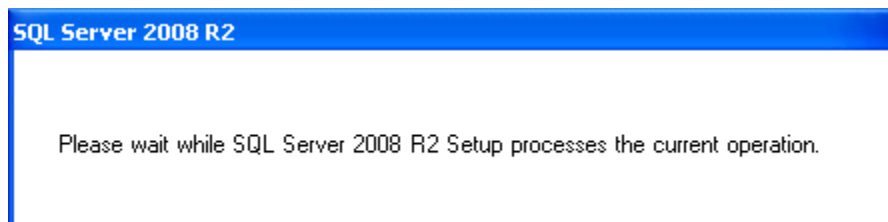
You may be prompted to allow the software to run, just click **Run** and the installer will extract and launch.
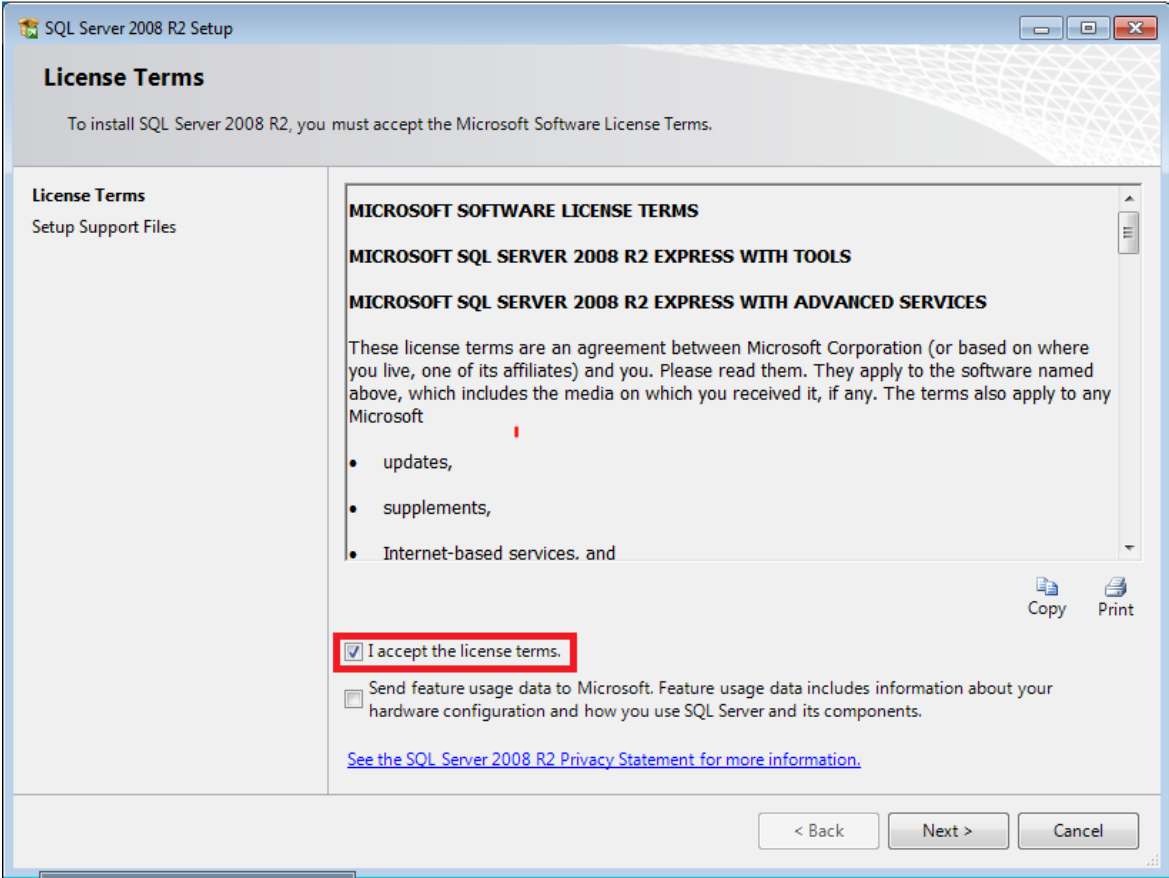
Now you will see the **SQL Server Installation Center** screen. Choose "New Installation or add features to an existing installation."

The following informational window will display.

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You will see the screen below and must check the box by "**I accept the license terms.**" to accept Microsoft's license agreement before you can continue. Click **Next**.

The **Feature Selection** screen appears. You should have the **Database Engine Services**, **Reporting Services**, **Business Intelligence Development Studio**, and **Management Tools – Basic** checked; the **SQL Server Replication**, **Full-Text Search**, **SQL Client Connectivity SDK**, and **Microsoft Sync Framework** are optional.

Be sure to choose a drive with plenty of free space for the **Shared feature directory**, and then click **Next**.
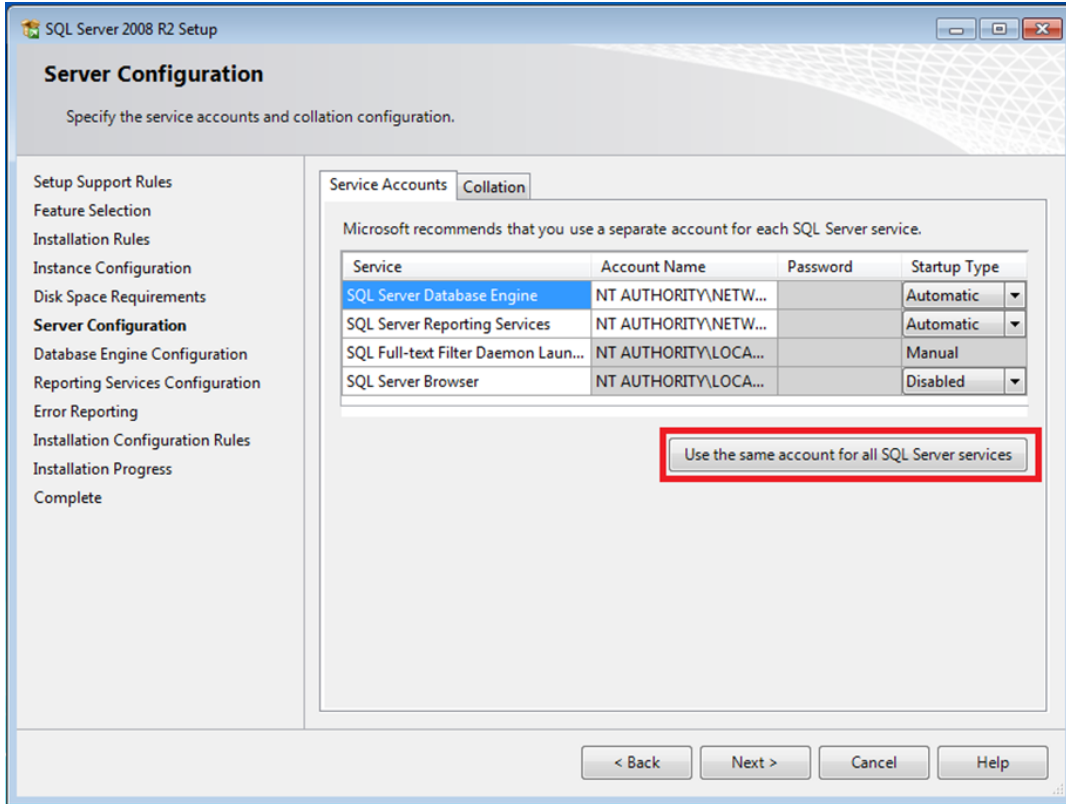
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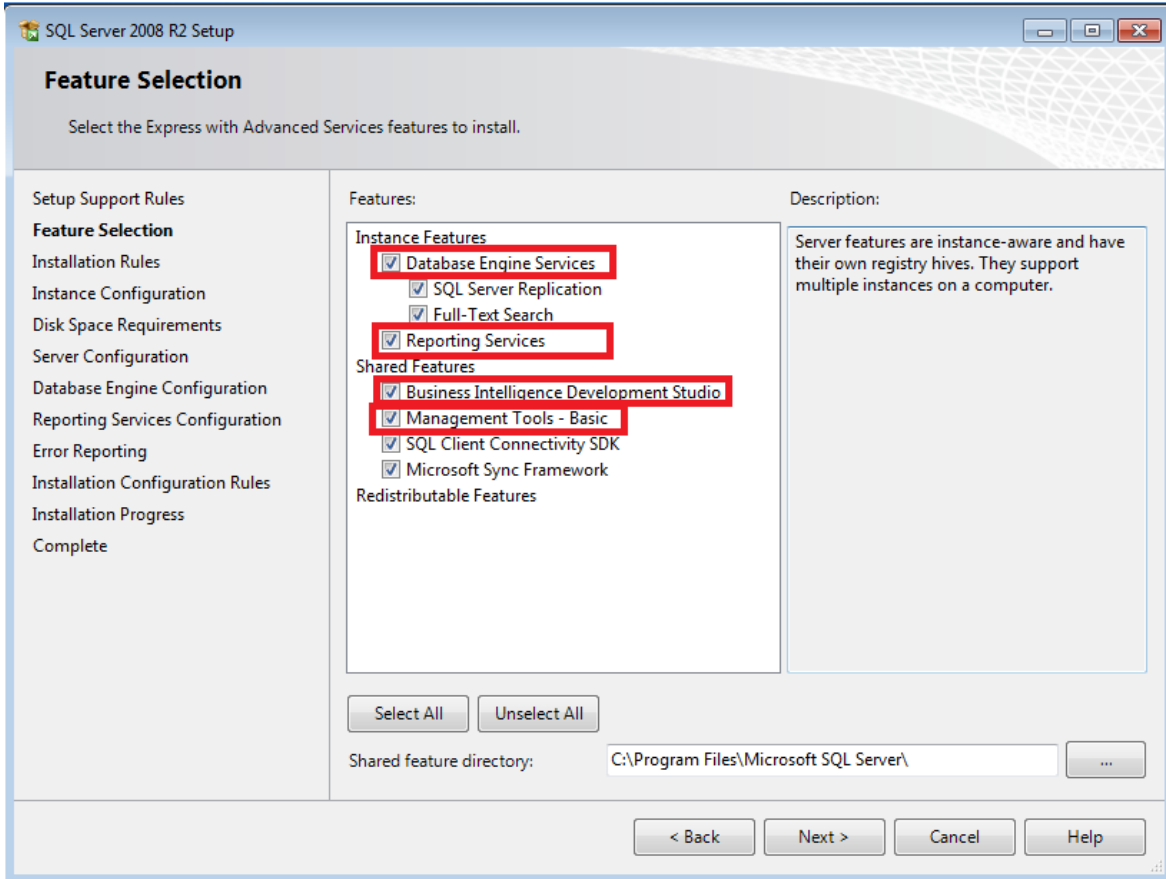
On the **Instance Configuration** screen, check the button by **Named Instance** and enter **Shelby** for the instance name. Verify that the **Instance root directory** is on a drive with plenty of free space and then click **Next**.
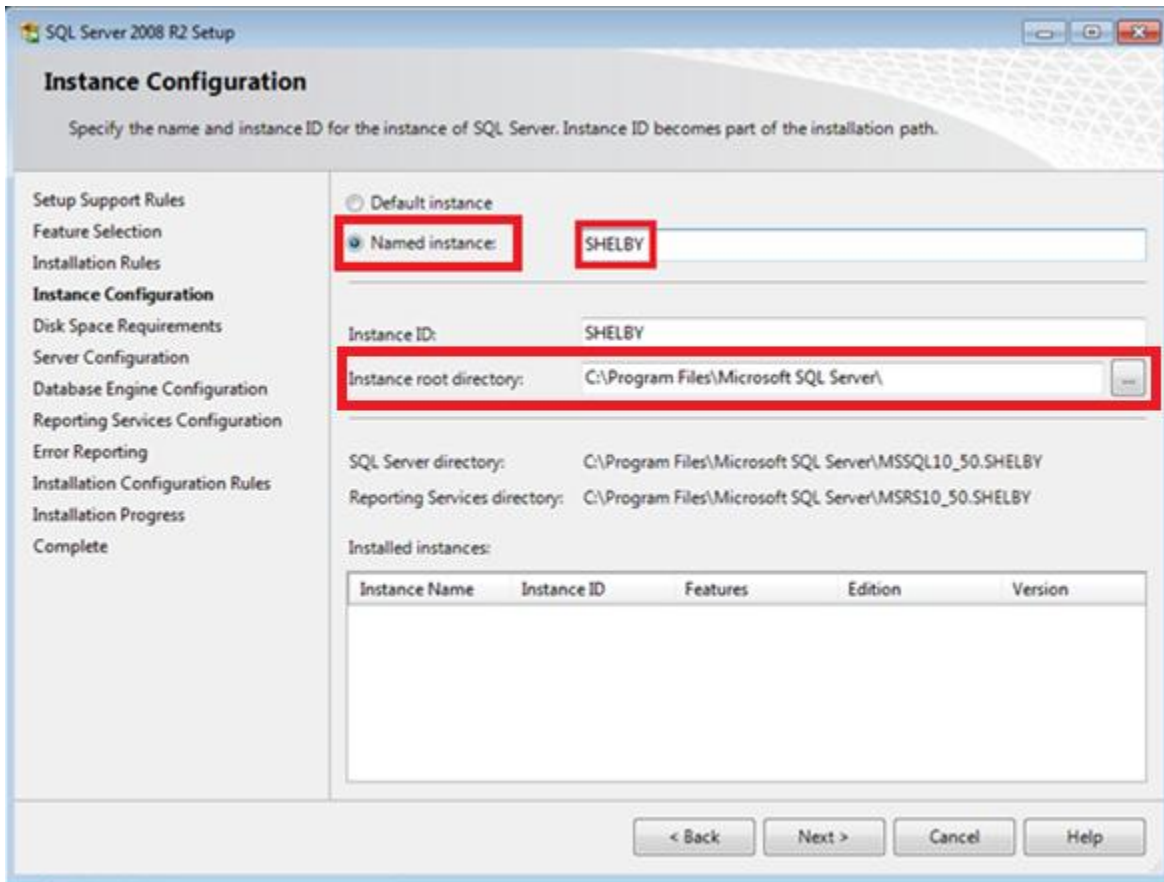
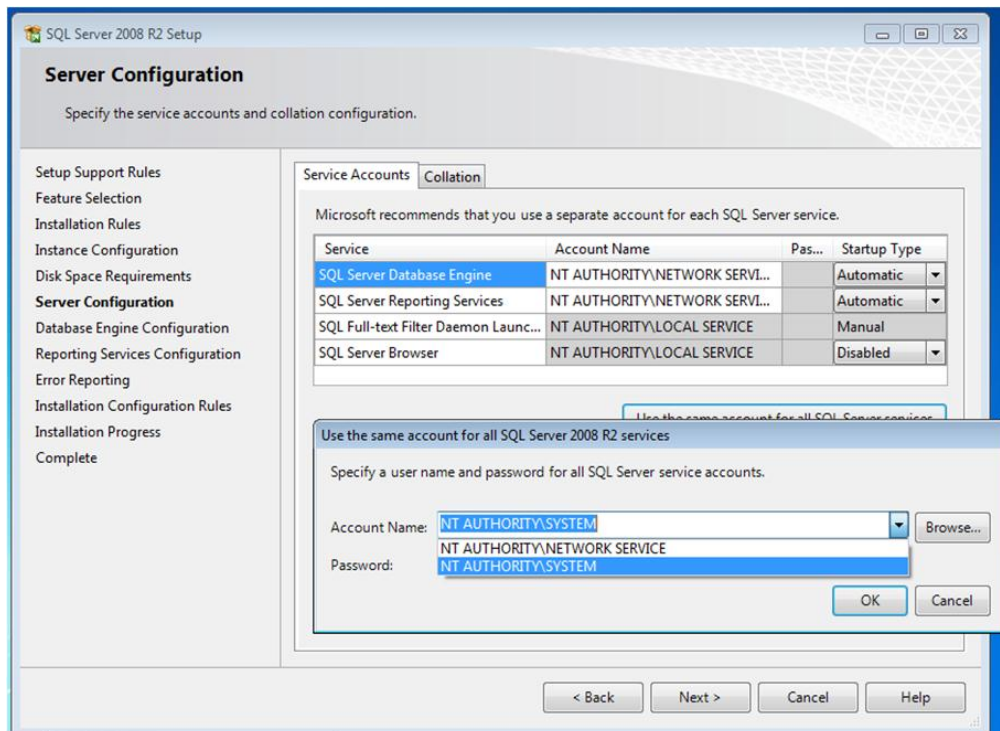Next, the **Server Configuration** screen displays. Click the **Use the same account for all SQL Server services** button.

Choose "NT Authority\System" and click **Next**.

WARNING: Do **NOT** change the settings on the **Collation** tab.

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On the **Database Engine Configuration** screen, select **Mixed Mode (SQL Server authentication and Windows authentication)** and enter a password for the **SA** account. Shelby v.5 uses **ShelbySystems-2007** as the default password, but you can use any password you desire.

Be sure to click the **Add Current User** button to add your current login to the **SQL Server administrators** before clicking **Next**.
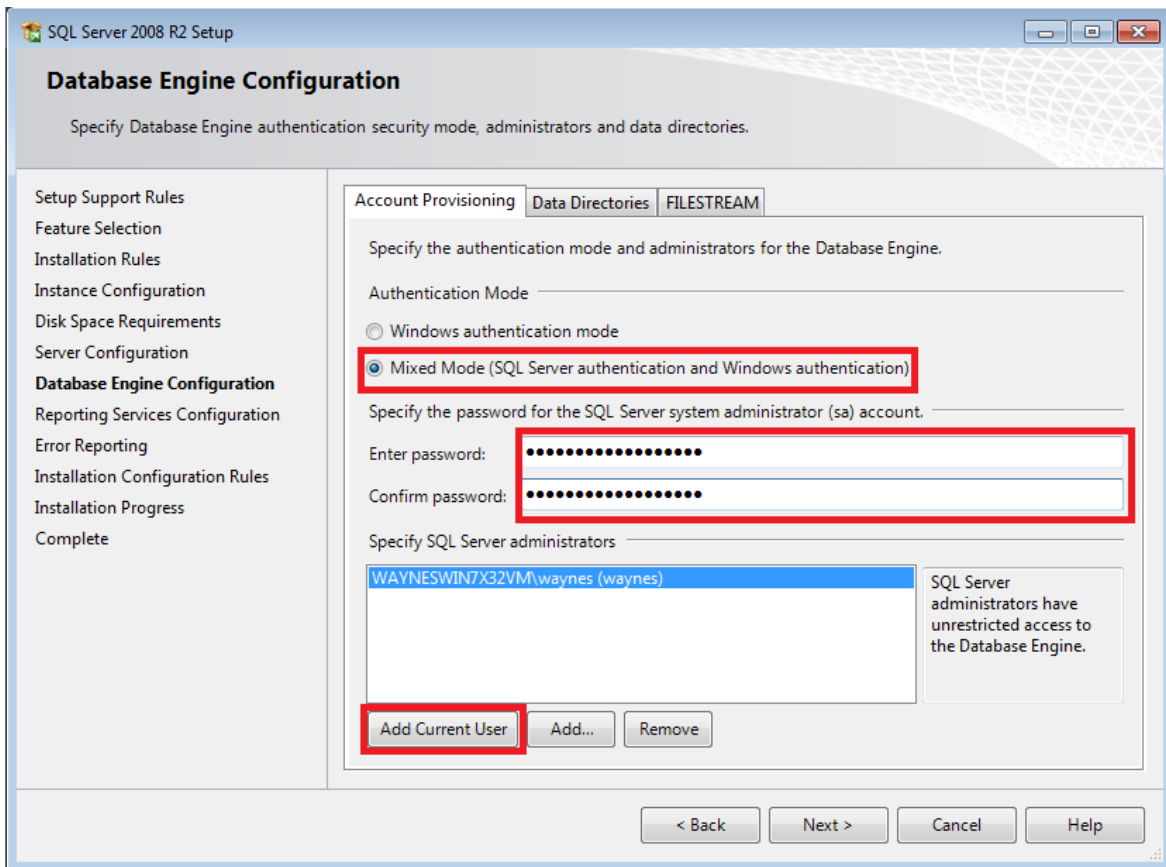
Choose "Install the native mode default configuration" and click **Next**.
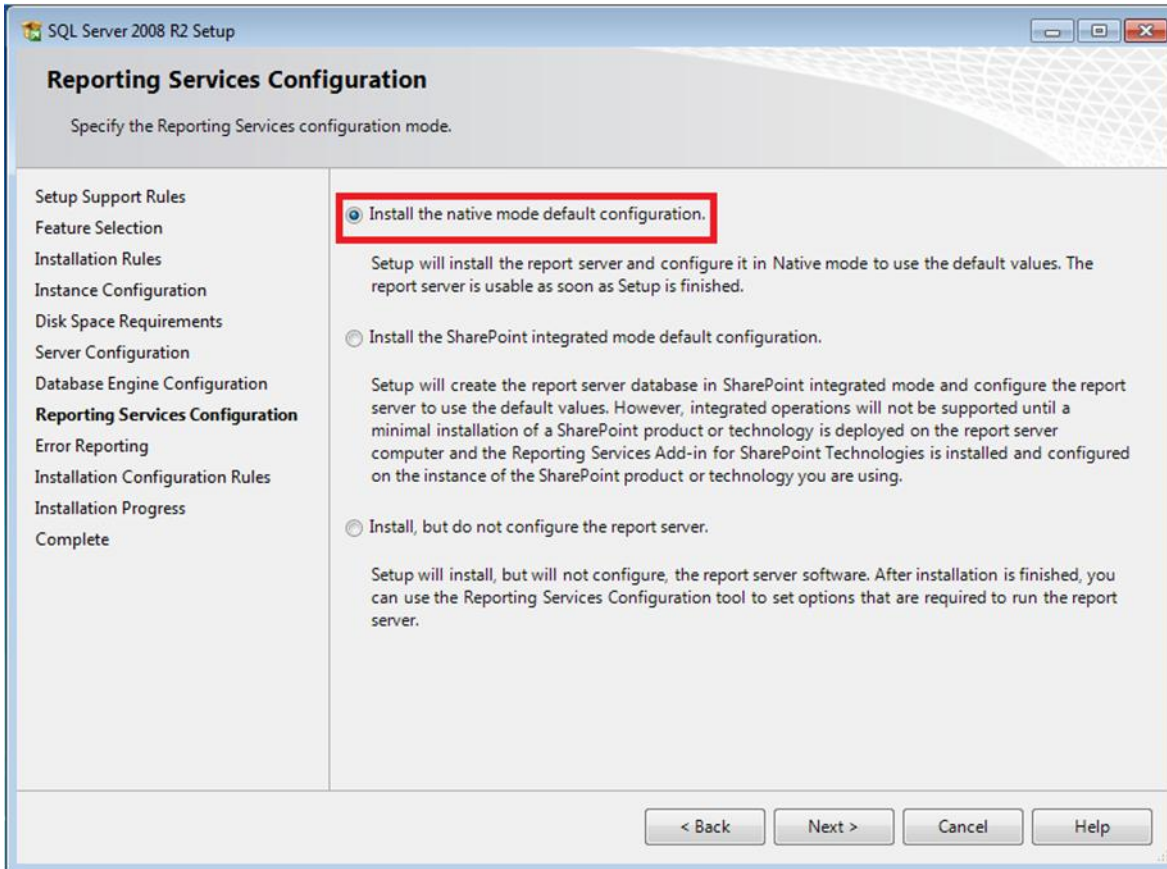
On the **Error Reporting** screen, place a check in the box if you want to notify Microsoft of SQL errors. After making this decision, click **Next**.
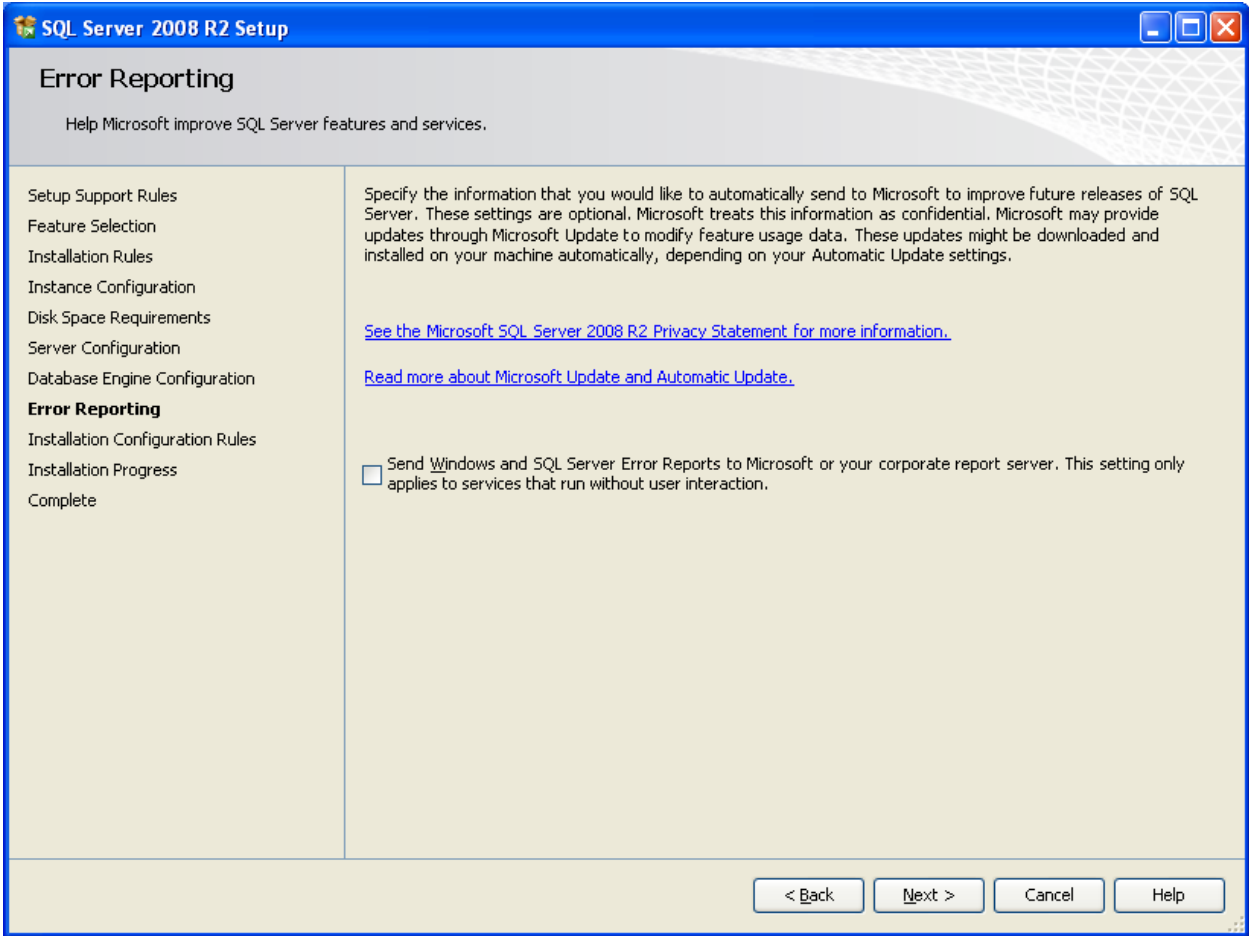
The **Installation Progress** screen shows you the progress of your installation. Once it is complete, click **Next**.

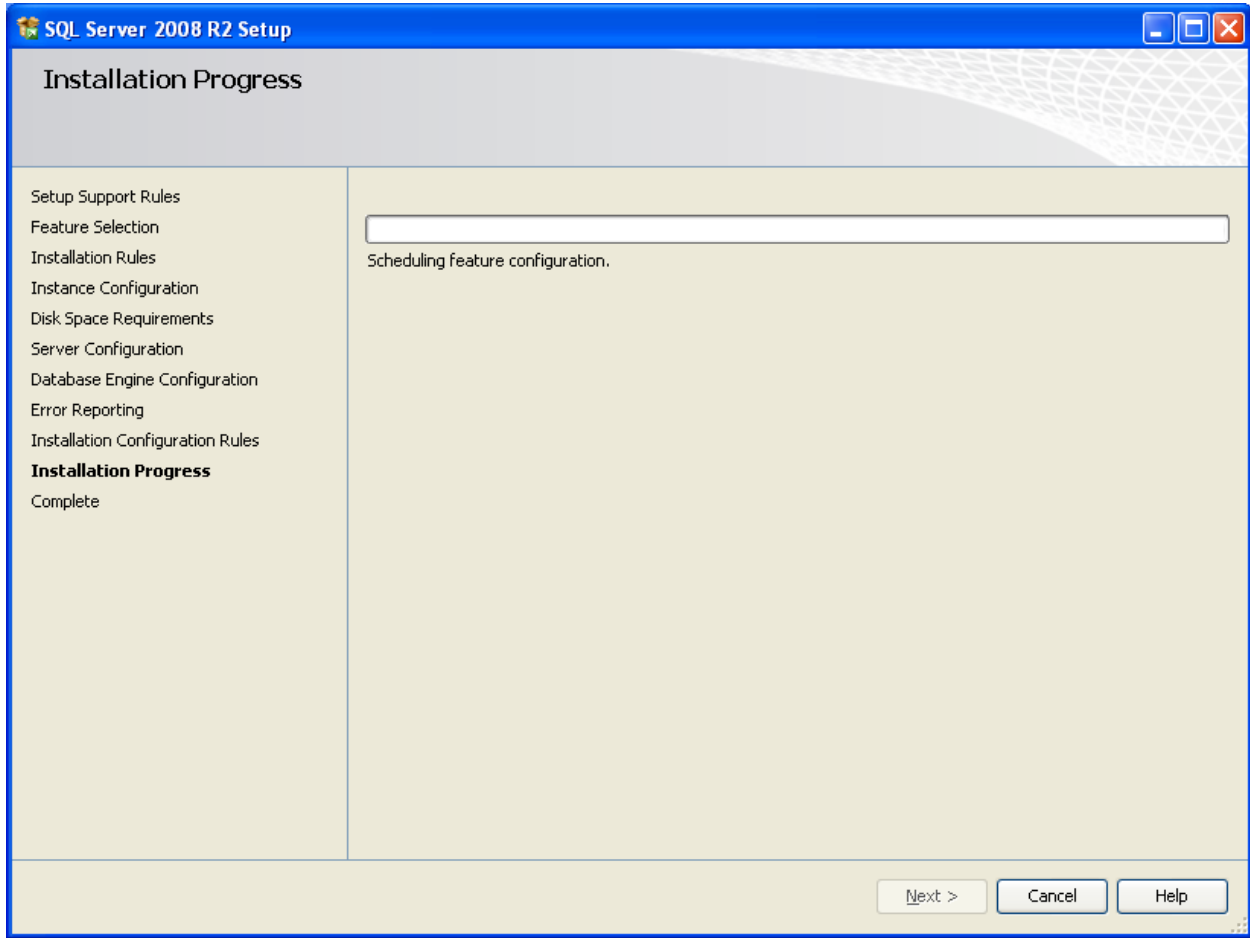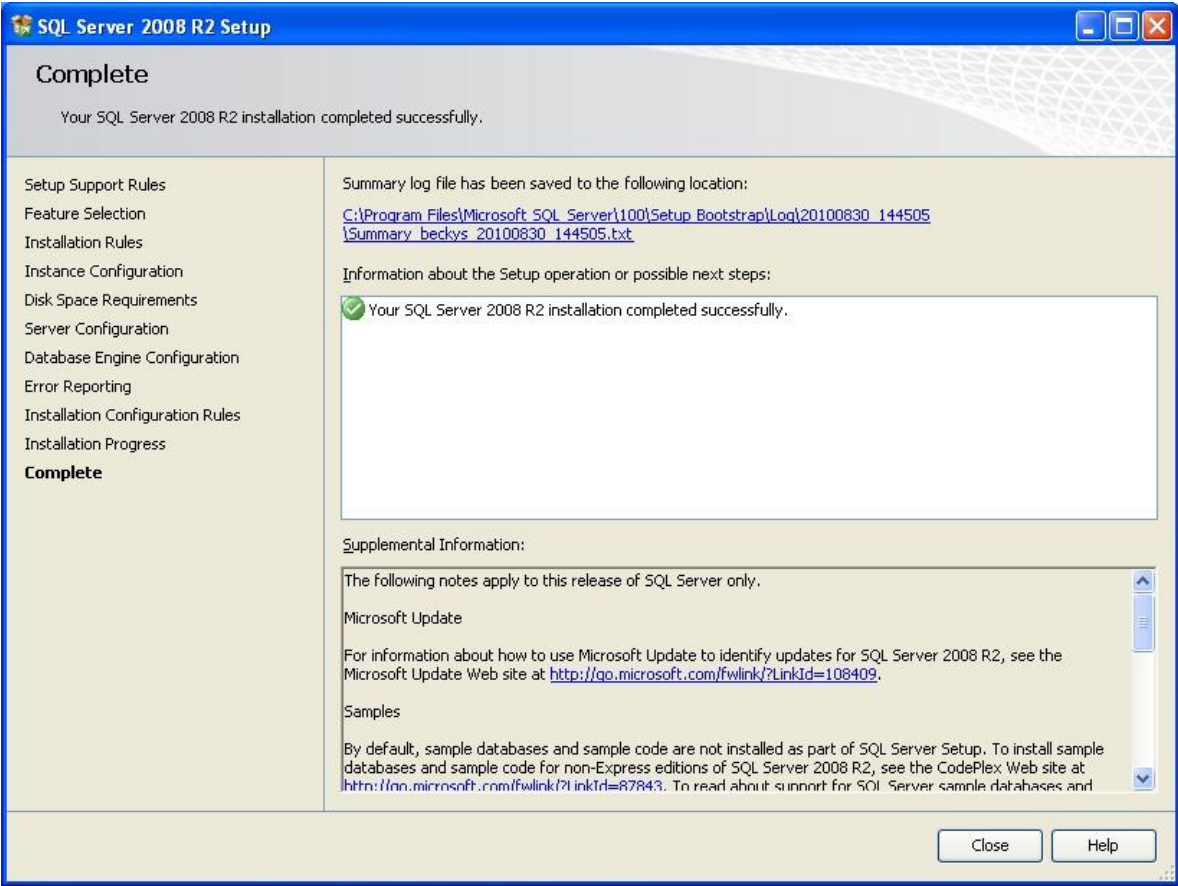The **Complete** screen notifies you that the SQL installation has finished. Read the notes in the box, and then click **Close**.

You may receive the following message; just click **OK**.
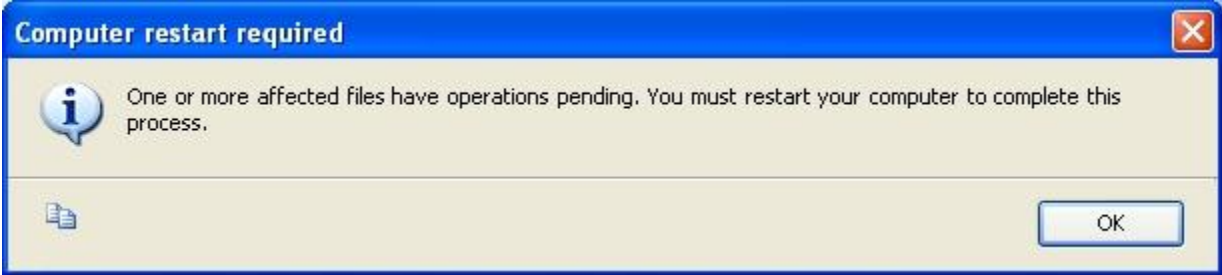
If you get the following prompt, click **OK**. Otherwise, just close the installer screen. You do not need to reboot now, as we will reboot after configuring Microsoft SQL Server 2005 Backward Compatibility Components.

Configuring SQL Server 2008 R2 Express

Configure Network Protocols

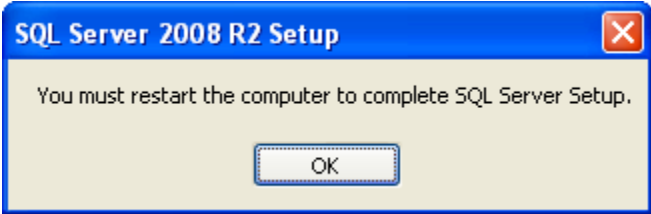To properly configure network protocols for use with Shelby v.5, go to **Start**, **All Programs**, and click on **Microsoft SQL Server 2008**. Select **Configuration Tools** and then **SQL Server Configuration Manager**. Expand the **SQL Server Network Configuration** item and click on **Protocols for SHELBY**. Verify that **Named Pipes** and **TCP/IP** are set to **Enabled**. If these items are not already enabled, right-click them and select **Enable**.
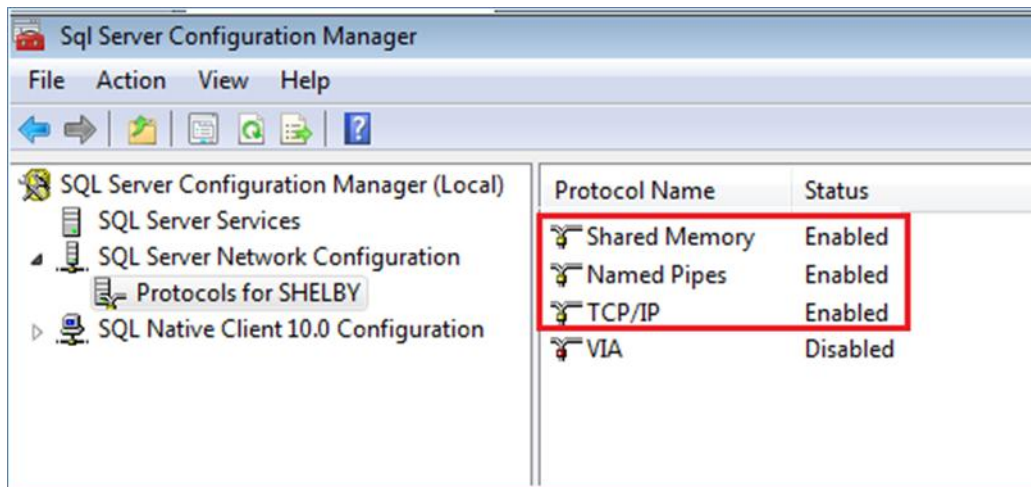
Click on the **SQL Server Services** item in the left column and verify that **SQL Server Browser** is running in the right side of the screen. If the browser is not running, right-click it and go to **Properties**. Click on the **Service** tab, change the **Start Mode** from **Manual** to **Automatic**. Click **Apply**, and then click **OK**. You can then right-click the **SQL Server Browser** and start it.

Finally, right-click the **SQL Server (SHELBY)** service and restart it to apply the changes.

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Changing Surface Area Configuration Settings

Click on **Start**, **Microsoft SQL Server 2008**, then **SQL Server Management Studio Express**. Log into your **Shelby** instance with **Windows Authentication**. Right-click on the instance name (it is at the top of the list) and select **Facets** in the drop-down menu.
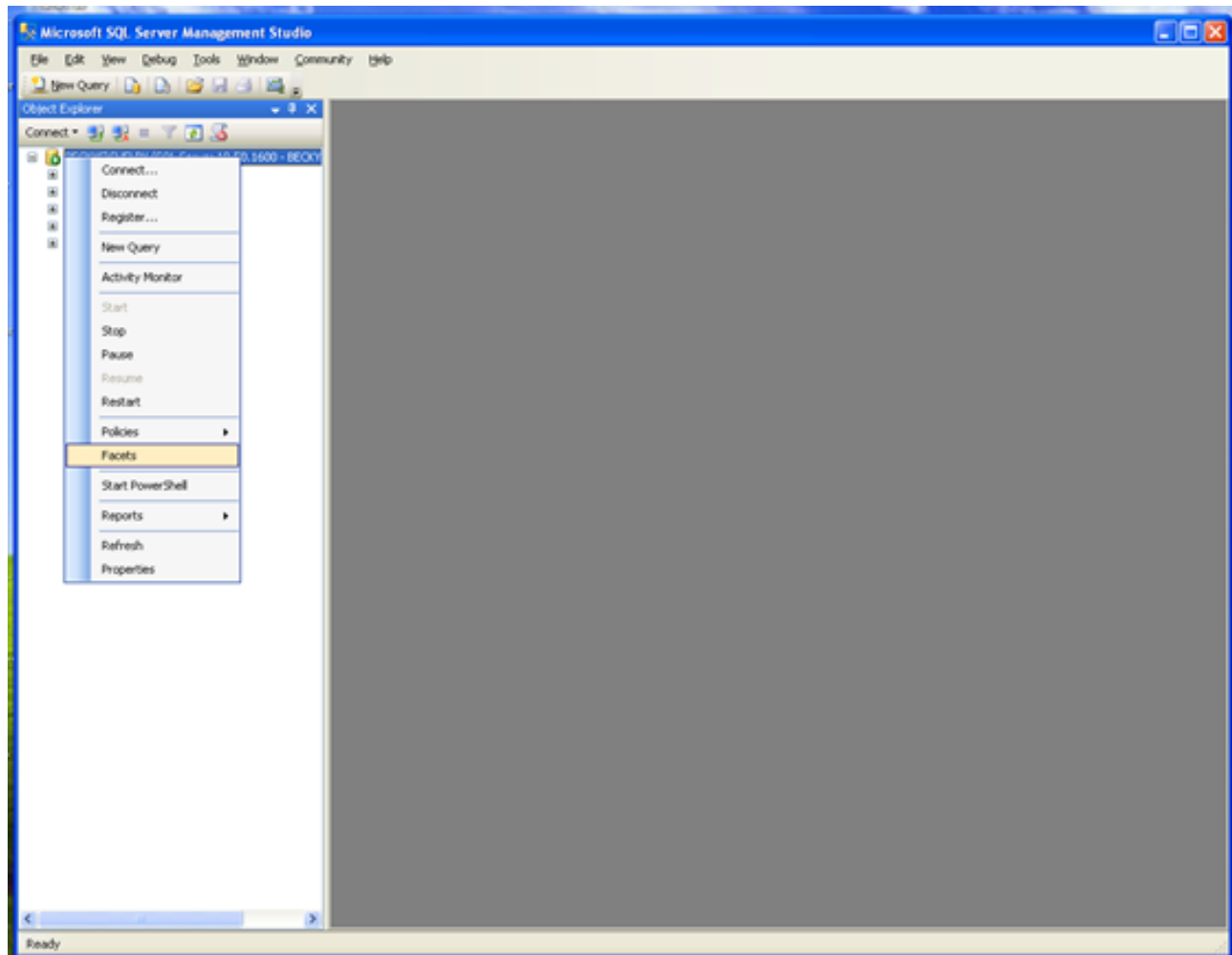
From the **Facet** pull-down menu, select **Surface Area Configuration**.
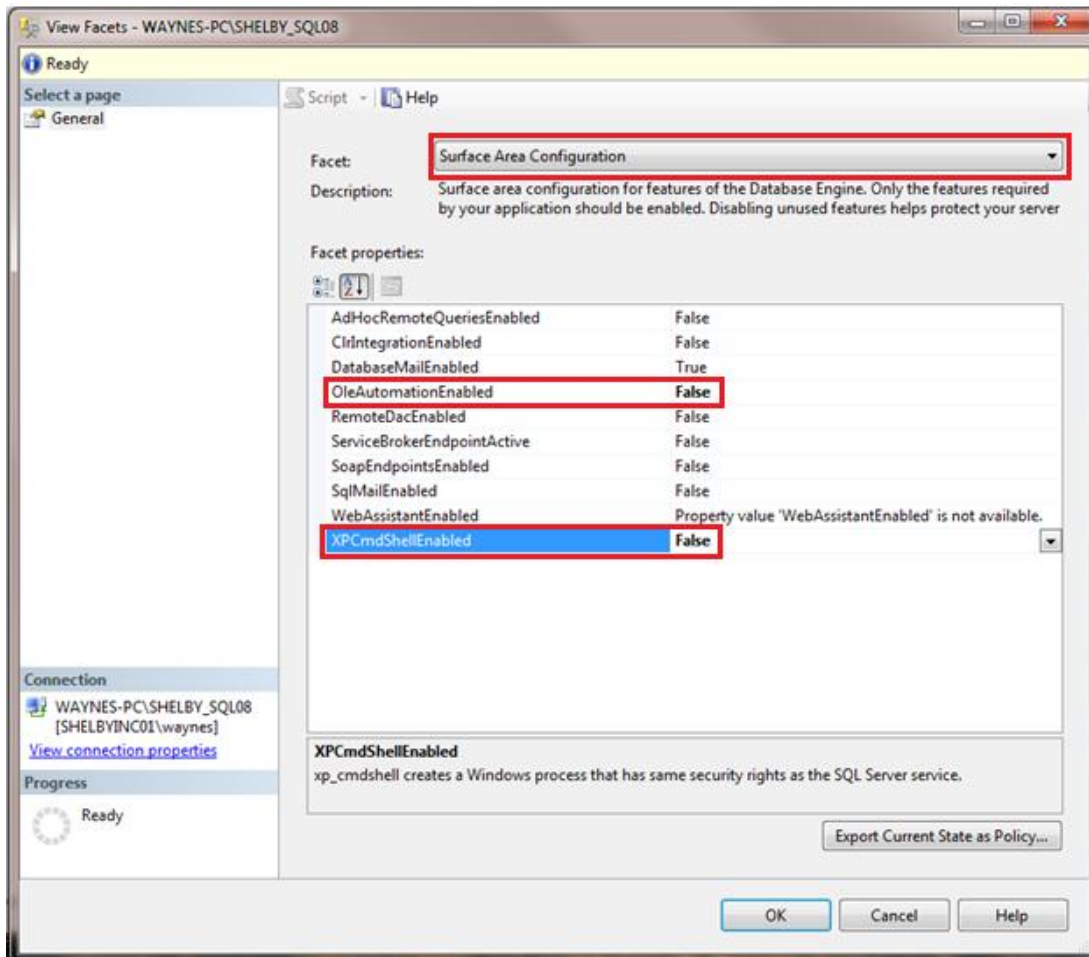
Change the **OleAutomationEnabled** and **XPCmdShellEnabled** items to **True** and click **OK**.

Backward Compatibility

Microsoft SQL Server 2005 Backward Compatibility Components

If a server with SQL 2008 has never had a previous version of SQL installed on the server, it will not have SQL Distributed Management Objects (SQL-DMO) for backward compatibility installed. Shelby's Backup/Restore Utility uses the backward compatibility component to make backups.

The SQL Server Backward Compatibility package includes the latest versions of Data Transformation Services 2000 run-time (DTS), SQL Distributed Management Objects (SQL-DMO), Decision Support Objects (DSO), and SQL Virtual Device Interface (SQLVDI). These versions have been updated for compatibility with both SQL Server 2005 and SQL Server 2008 and include all fixes shipped through SQL Server 2000 SP4 and SQL Server 2005 SP2.

To install click the appropriate link below:

X86 Package (SQLServer2005_BC.msi) - 11273 KB (32-bit)
X64 Package (SQLServer2005_BC.msi) - 18569 KB (64-bit)

**Be sure to reboot or restart your SQL Server service after you install the patch.**

How to Connect SQL through the Windows Firewall using Dynamic Ports

To allow open access for SQL Server 2008 and SQL Server 2008 R2 to connect using Dynamic Ports to the Database Engine through the Windows 7, Windows Server 2008, or Windows Server 2008 R2 Firewall, follow these steps on the **SQL Server**:

1. On the **Start** menu, click in the **Search Programs & Files** box, type **WF.msc**, and then click **OK**.

2. In the left pane under **Windows Firewall with Advanced Security and Local Computer**, click **Inbound Rules**.

3. In the **Action Panel** on the right, click **New Rule**.
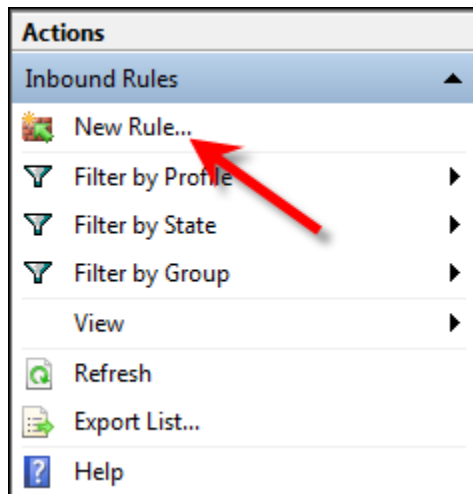
4. In the **Rule Type** dialog box, select **Program**, and then click **Next**.
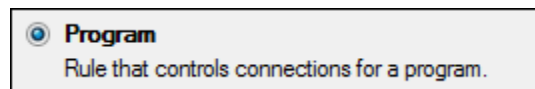

5. In the **Program** dialog box, select **This Program Path**. Click **Browse**, and navigate to the instance of SQL Server that you want to access through the firewall, and then click **Open**.

    *   SQL Server 2008 is at **C:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\Binn\Sqlservr.exe**.

   *   SQL Server 2005 is at **C:\Program Files\Microsoft SQL Server\MSSQL.1\Binn\sqlservr.exe**.

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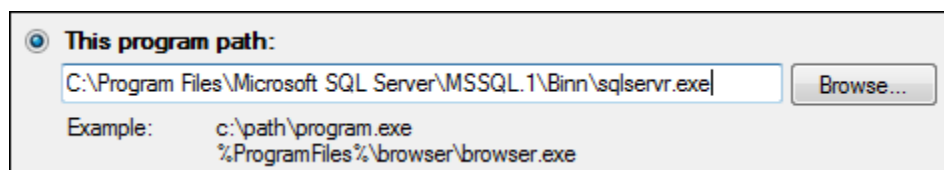
6. Click **Next**.

7. In the **Action** dialog box, select **Allow the connection**, and then click **Next**.
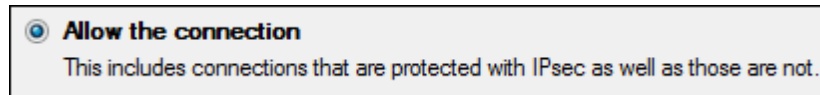
8. In the **Profile** dialog box, select any profiles that describe the computer connection environment when you want to connect to the Database Engine, and then click **Next**.
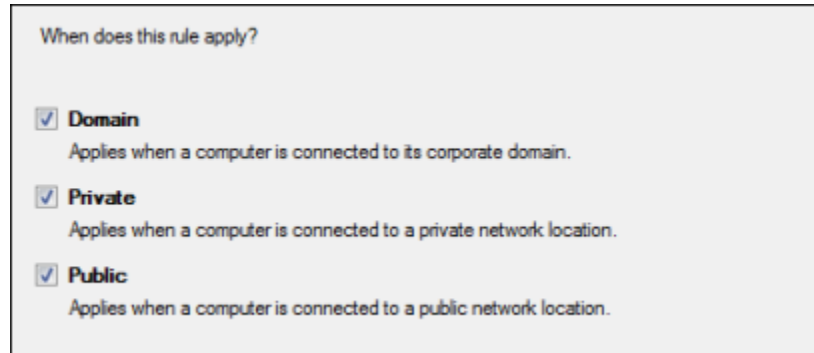
9. In the **Name** dialog box, type "SQL Access" for the name and a description, if desired.
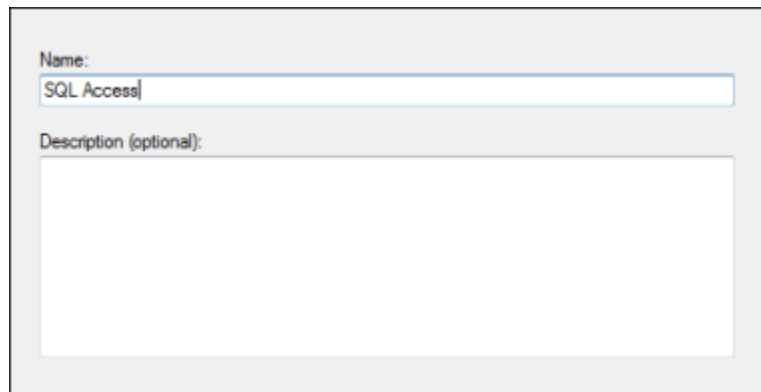
10. Click **Finish**.

Completing the Installation Process

This completes the installation of SQL Server 2008 R2 Express. If you have not installed the latest Shelby v.5 programs please go to the Shelby Community and do so. For reference, the Installation/Operation Guide can be located at this link.

If you have upgraded to a new version of SQL on your server, the final two steps are:

1. Create a blank Shelby v.5 database using the DBinstall.exe program located at "\Shelby\ssv5.prg\DBinstall\DBinstall.exe." For reference, see Moving Shelby Programs and Data to a New Server.

2. Restore the latest backup of your Shelby v.5 database using the Shelby SQL Backup/Restore Utility. For reference, see Restoring Shelby v.5 Data.

Finally, launch Shelby v.5 on the server and log in to verify that everything is working properly, and then launch Shelby v.5 on a workstation.

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