Detailed Instructions for Billing Master Installation

1) Billing Master Install: (approximately 10 minutes to install)

- Standalone Installation notes:
  If you are installing the program on a single workstation then you simply install the application locally by double-clicking the BillingMasterSetup.exe program file. After installation you proceed to step 2 for SQL Server installation and configuration.

- Networked Installation notes:
  For networked installations you need to plan for the install location. You need to select or create a common directory share on your server. For best results this should be under a mapped network drive letter. For example if you already have drive F: mapped to your NTFS file share, then create a directory under F: and name it BillingMaster.

  After creating this share then install the application by double-clicking the BillingMasterSetup.exe program file. When the setup screen comes up showing where it will install change the default path to F:\BillingMaster, or the shared drive location you established.

  When the installation completes, go to the next workstation and repeat the install process. Repeat this for all workstations which will be running Billing Master. Remember the free version of Billing Master gives you only two workstation licenses. Additional workstation licenses may be purchased, if needed.

  After you have installed the program on all workstations you proceed to step 2 for SQL Server installation and configuration.

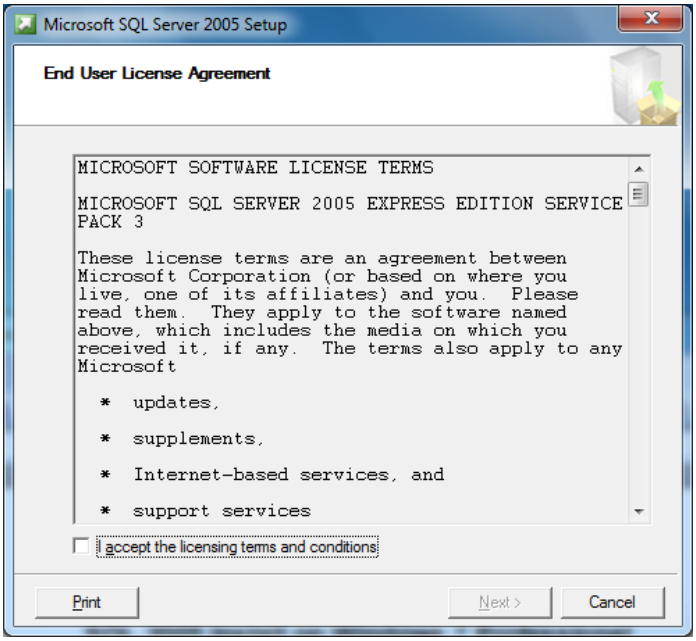
2) SQL Server Install: (approximately 20 minutes to install)

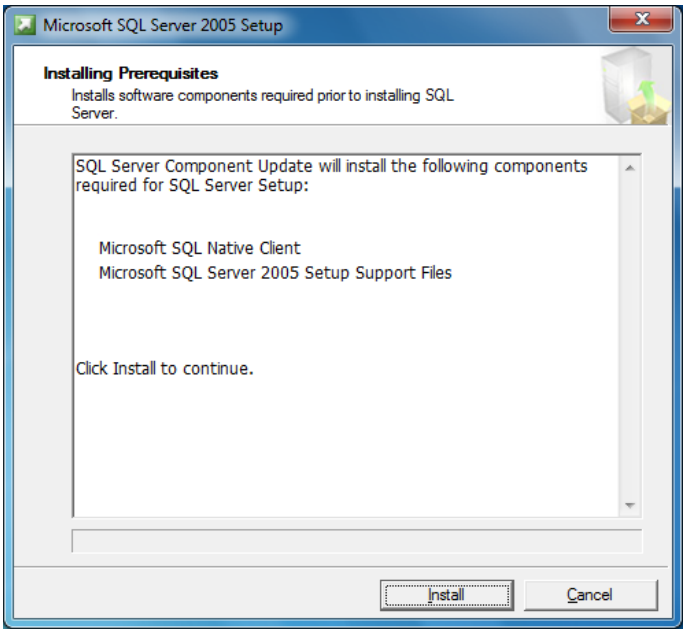
If you have Microsoft® SQL Server already installed then you can proceed to step 3), the Database Setup, otherwise you need to run the SQL Server setup and the Management Studio Setup. These setup programs can be selected and run by clicking the Start button and selecting All Programs. Under All Programs will be the new menu item Masterware. Under the Masterware menu item will be the

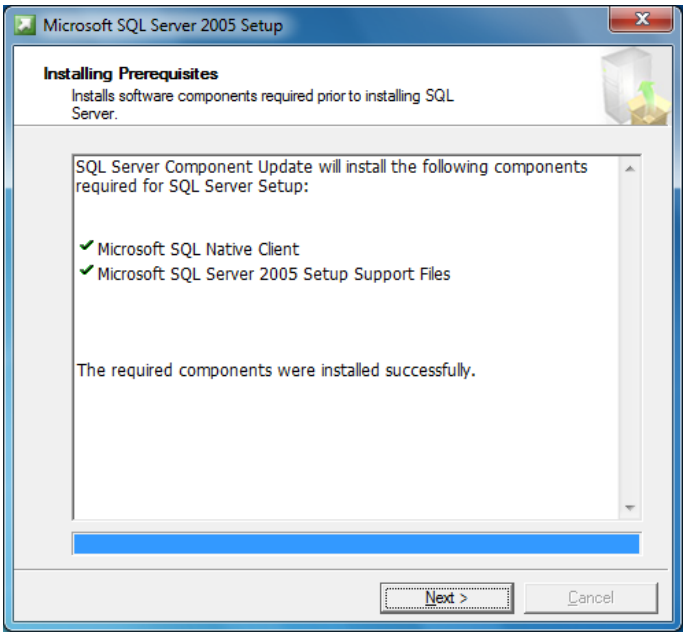
From your Start Button do the following:

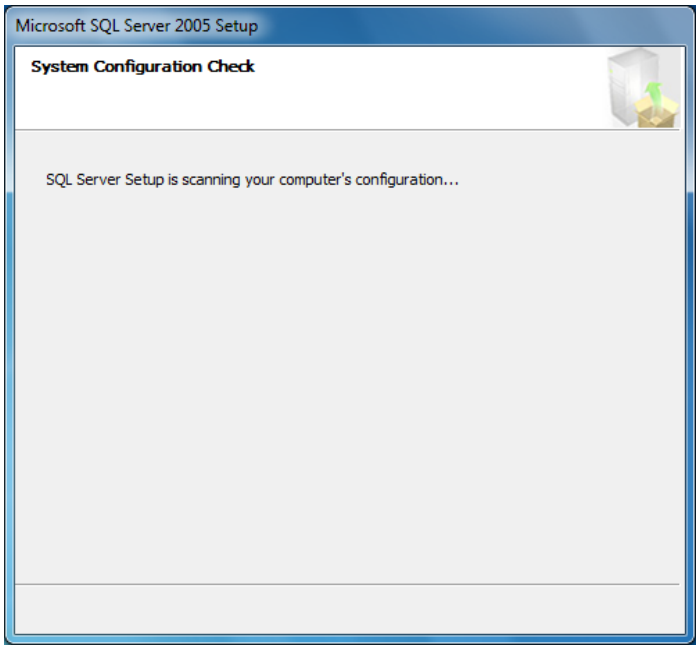
- ✓ Select All Programs
- ✓ Select Billing Master
- ✓ Select SQL Server Setup
- ✓ Select Install SQL Server

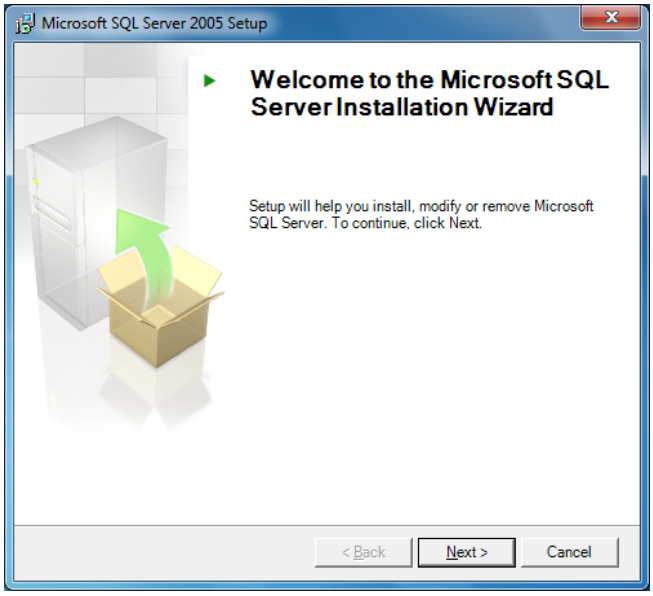
This will begin the installation of SQL Server. The following screens will aid you in making your selections during the installation process:



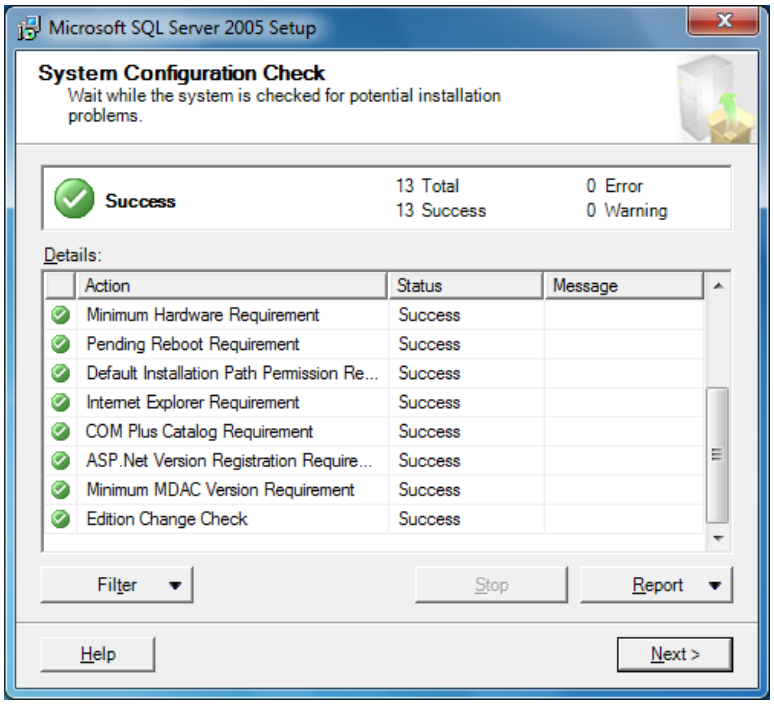

Microsoft SQL Server 2005 Setup
Installing Prerequisites
Installs software components required prior to installing SQL Server.
SQL Server Component Update will install the following components required for SQL Server Setup:
Microsoft SQL Native Client
Microsoft SQL Server 2005 Setup Support Files
Click Install to continue.
Install
Cancel

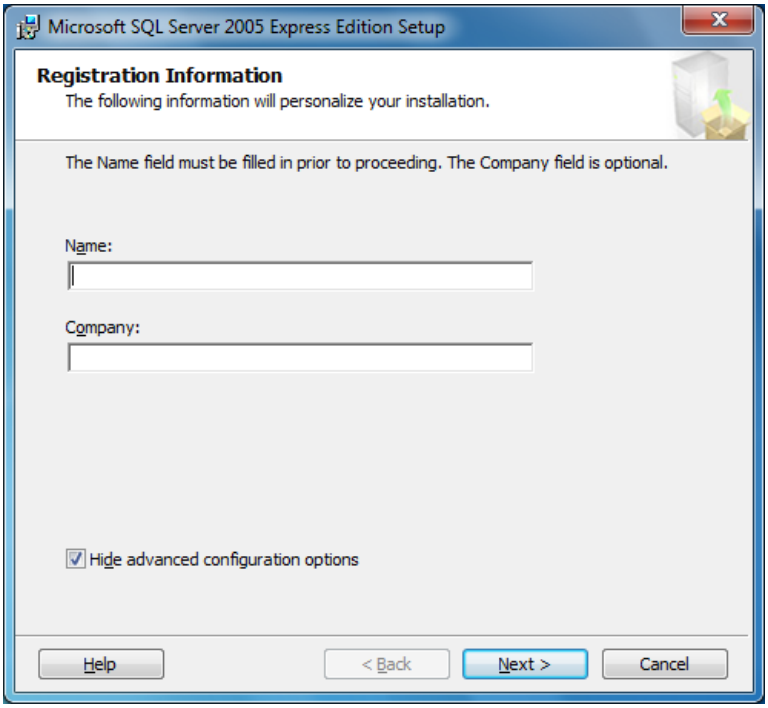

Microsoft SQL Server 2005 Setup
Installing Prerequisites
Installs software components required prior to installing SQL Server.
SQL Server Component Update will install the following components required for SQL Server Setup:
Microsoft SQL Native Client
Microsoft SQL Server 2005 Setup Support Files
The required components were installed successfully.
Next >
Cancel



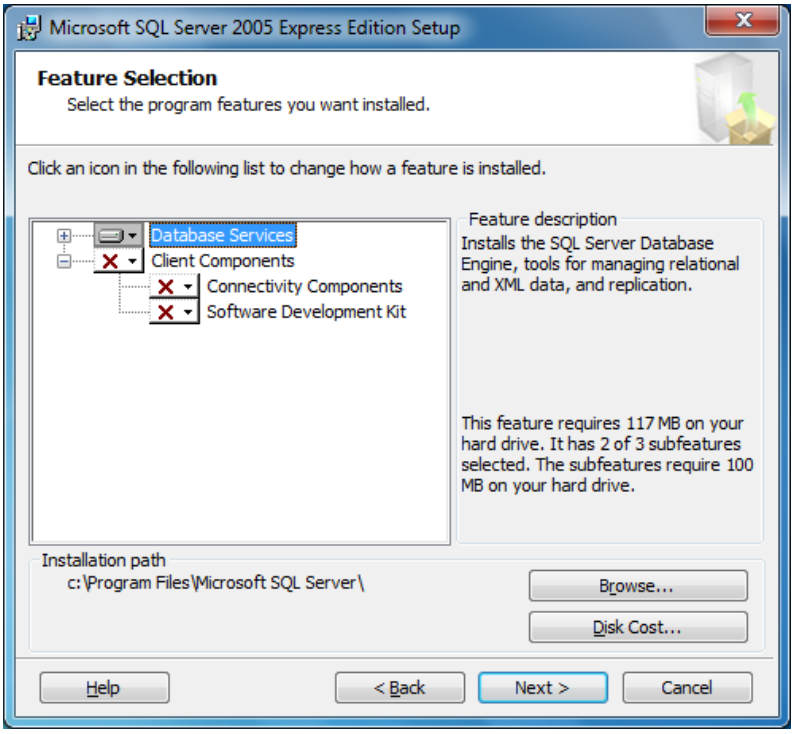


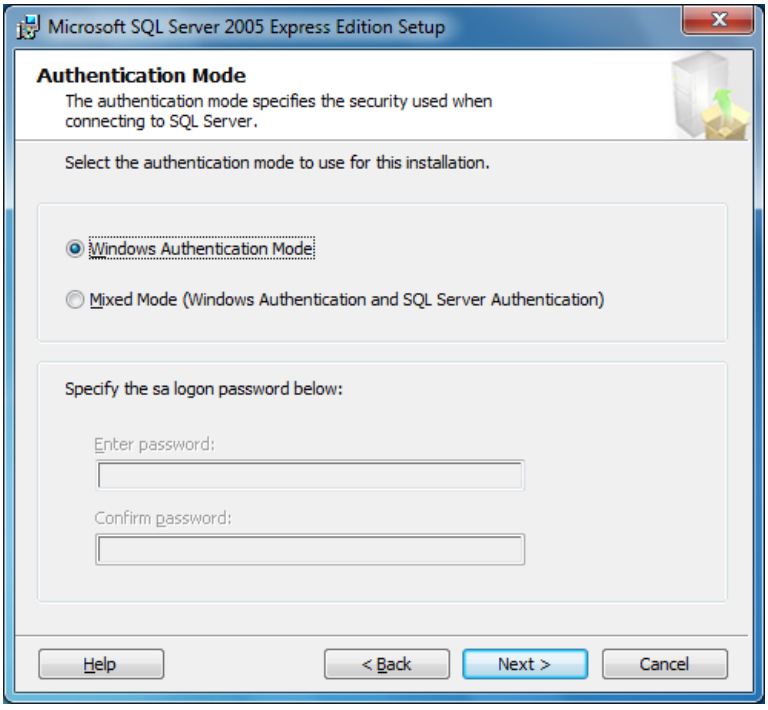
Important Note: After you click the Next button on the above screen make sure you are doing an install but not a modify or remove. If the installation steps after this indicate it will be doing a modify or removal, contact us for assistance, as you do not want to change your existing installation.



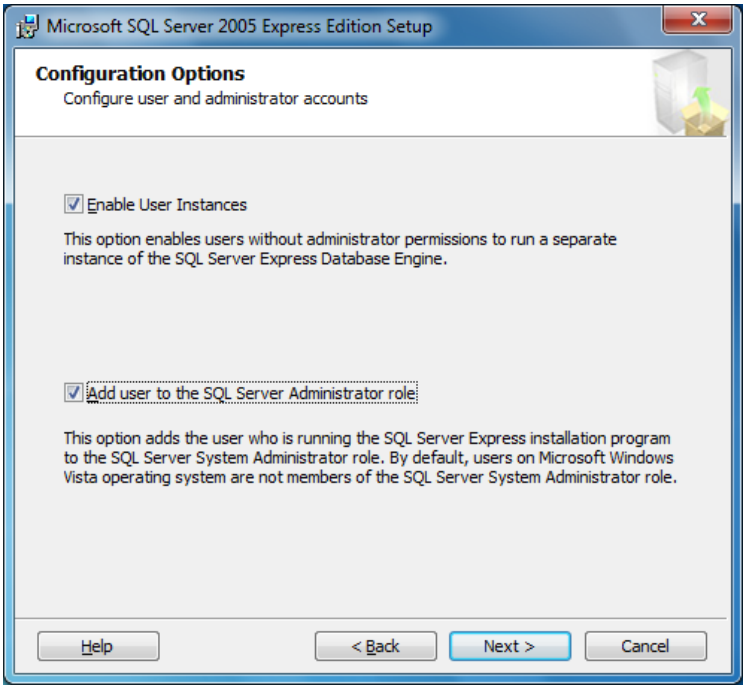


You must provide your name above, but your Company is optional.

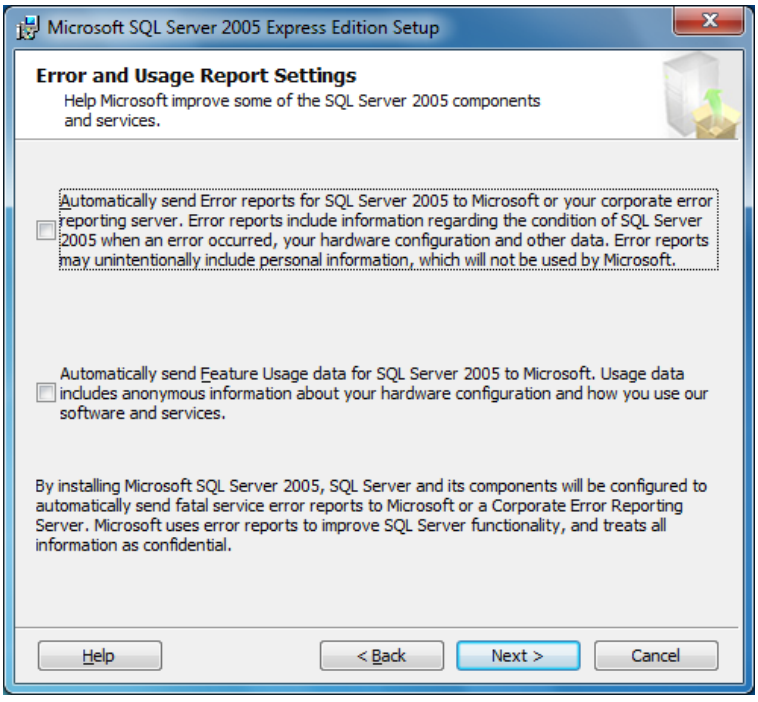




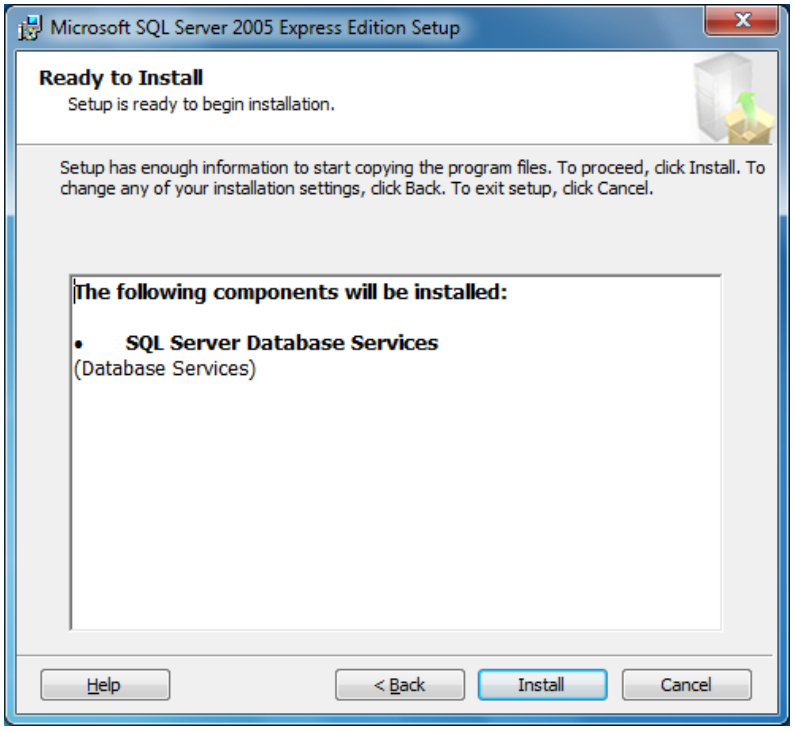
Windows Authentication Mode is fine for local PC installs. If you select the Mixed Mode option, make sure to store your sa password somewhere safe, so you can retrieve it when needed. Make sure to select a strong password (upper and lower case alphabetic, numbers and characters)

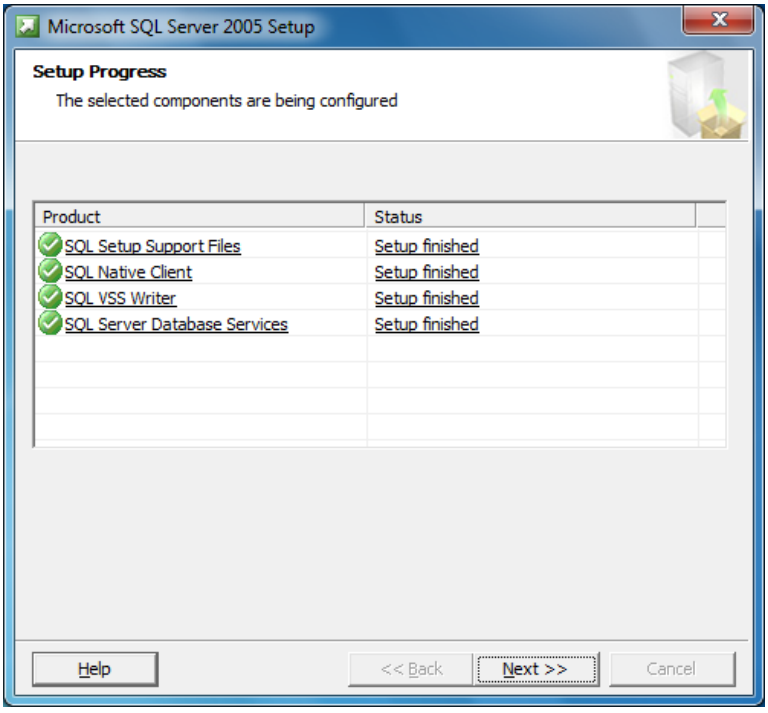


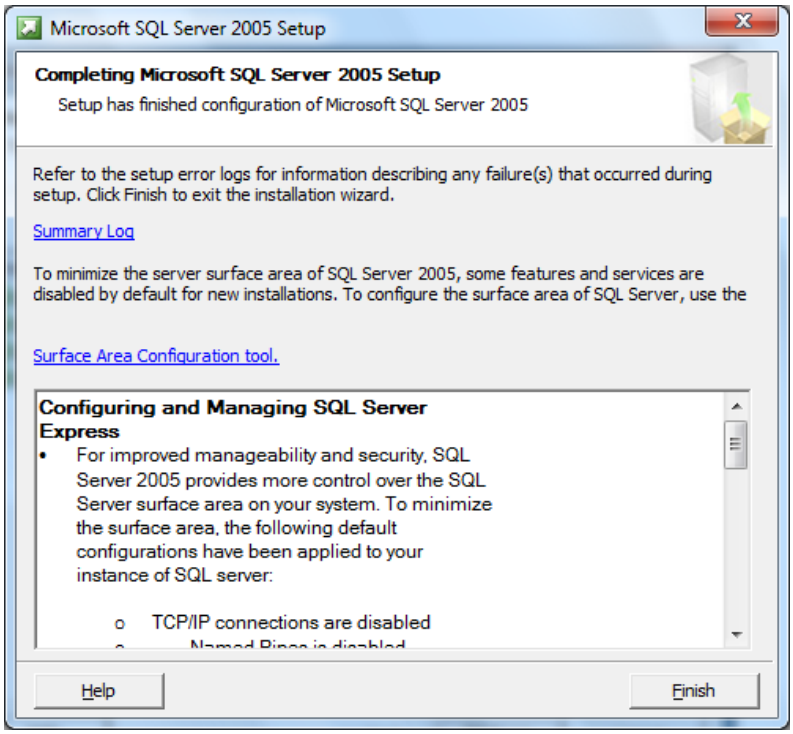
Be sure to click the lower check box as well as the upper checkbox



You will not need any of the above, so leave them unchecked


Microsoft SQL Server 2005 Express Edition Setup
Ready to Install
Setup is ready to begin installation.
Setup has enough information to start copying the program files. To proceed, click Install. To change any of your installation settings, click Back. To exit setup, click Cancel.
The following components will be installed:
SQL Server Database Services
(Database Services)
Help
< Back
Install
Cancel


Microsoft SQL Server 2005 Setup
Setup Progress
The selected components are being configured
Product
Status
SQL Setup Support Files
Setup finished
SQL Native Client
Setup finished
SQL VSS Writer
Setup finished
SQL Server Database Services
Setup finished
Help
<< Back
Next >>
Cancel

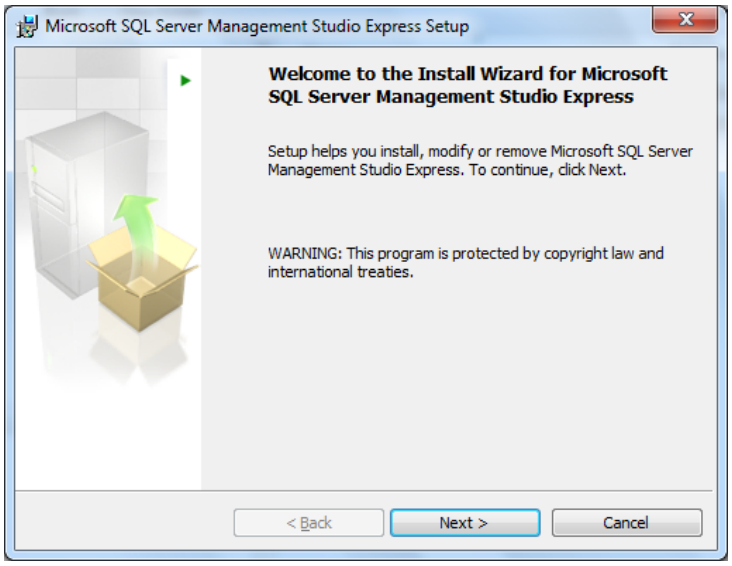


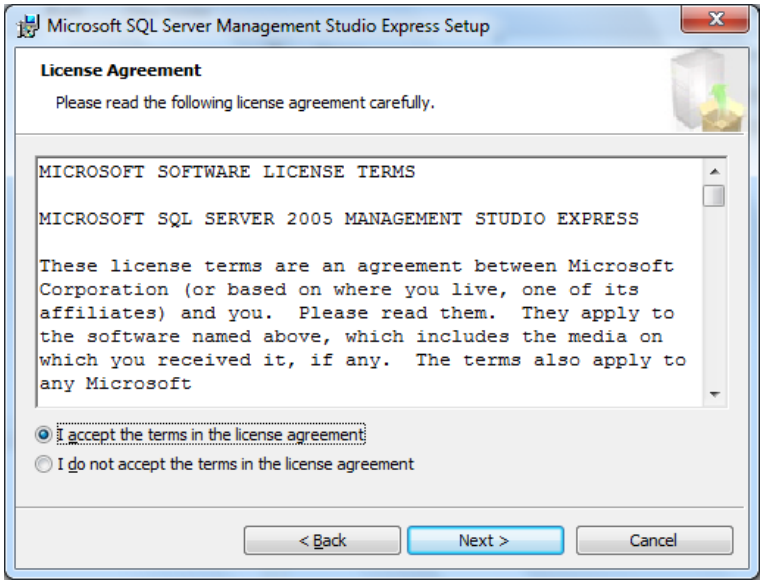
You will see the above screen when the installation completes successfully. Click the finish button.

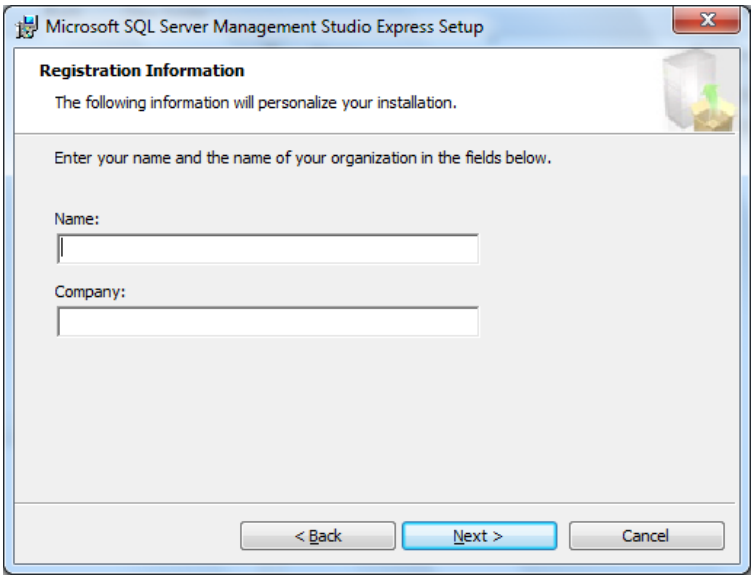
You are now ready to install the Management Studio. From your Start Button do the following:

- ✓ Select All Programs
- ✓ Select Billing Master
- ✓ Select SQL Server Setup
- ✓ Select Install Management Studio

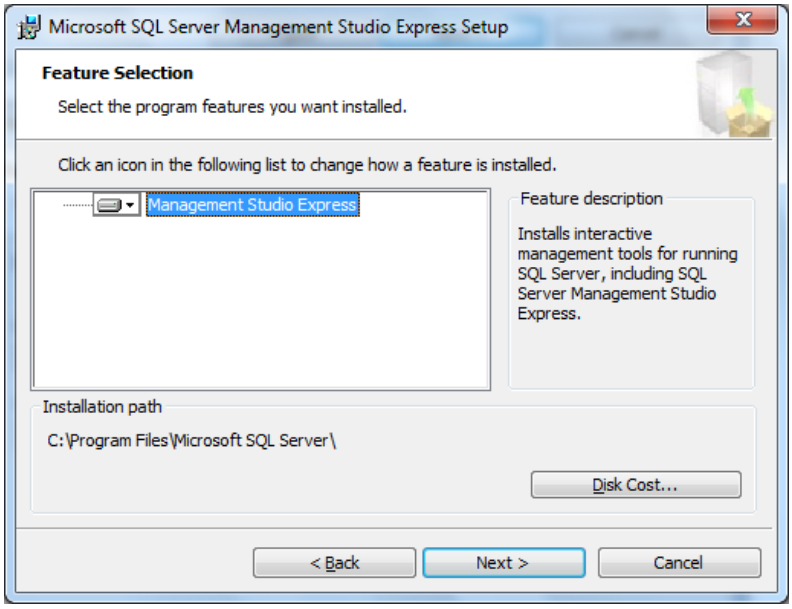
This will begin the installation of SQL Server Management Studio. The following screens will aid you in making your selections during the installation process:

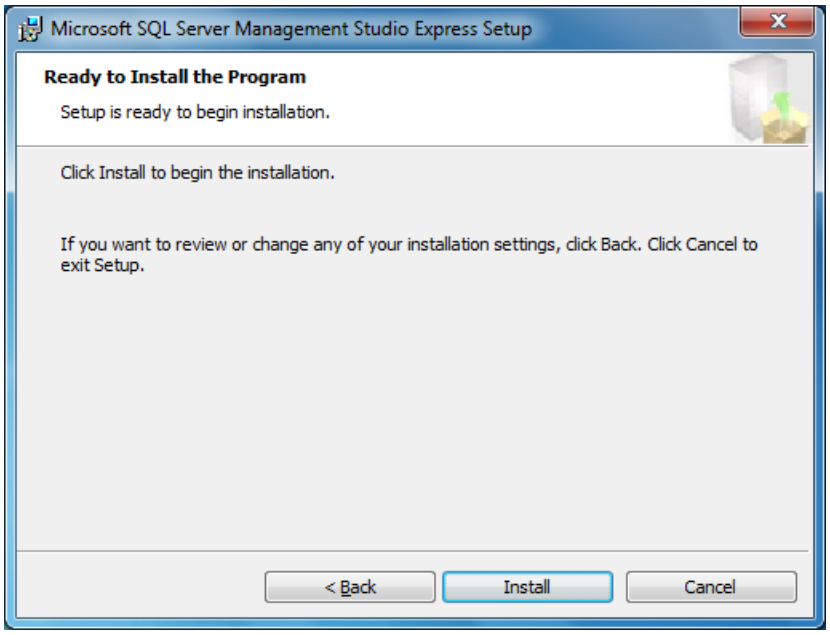


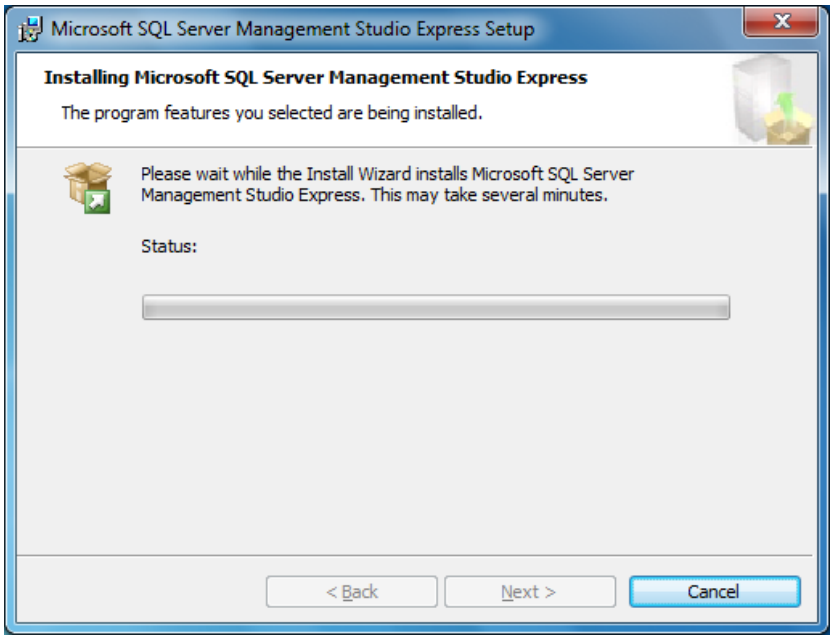


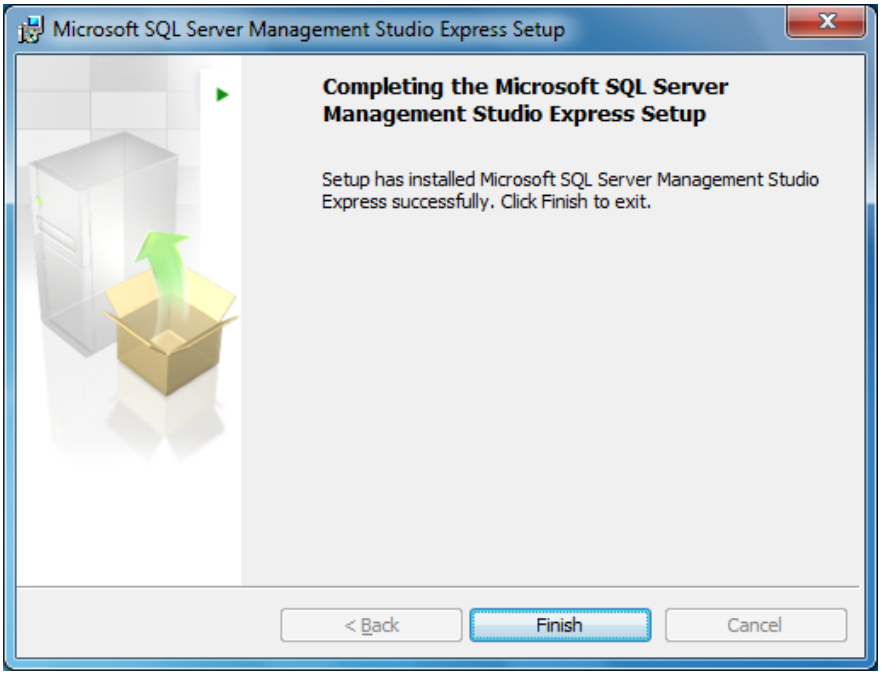


Enter you Name above but the Company is optional




Microsoft SQL Server Management Studio Express Setup
Ready to Install the Program
Setup is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit Setup.
< Back
Install
Cancel


Microsoft SQL Server Management Studio Express Setup
Installing Microsoft SQL Server Management Studio Express
The program features you selected are being installed.
Please wait while the Install Wizard installs Microsoft SQL Server Management Studio Express. This may take several minutes.
Status:
< Back
Next >
Cancel



SQL Server is now installed, along with the Management Studio. You may click the Finish button and then proceed on to step 3.

3) Create and Configure the Billing Master database: (approximately 10 minutes to complete)

From your Start Button do the following:

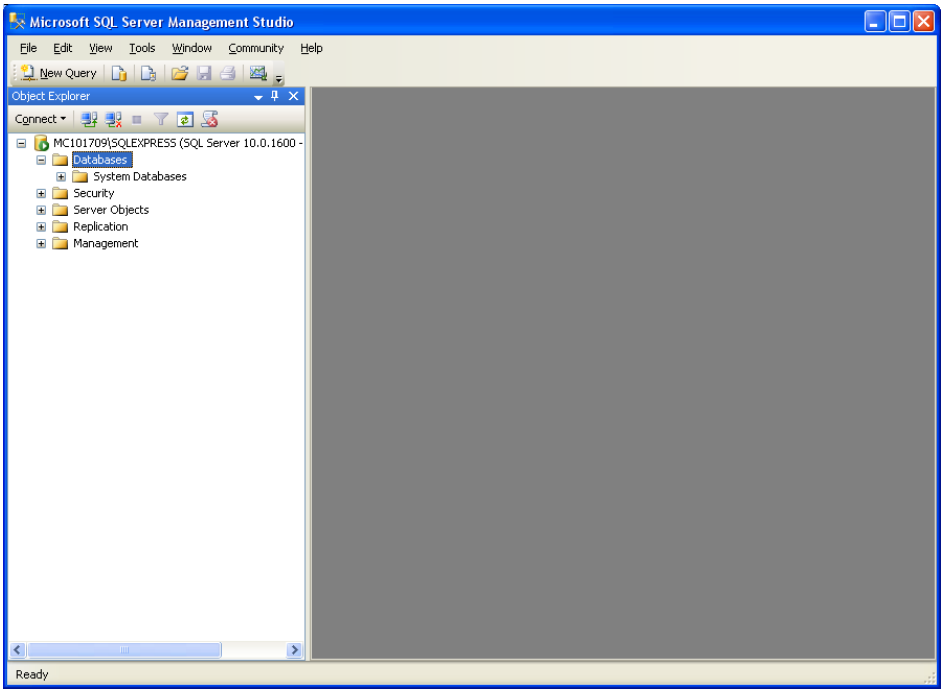
- ✓ Select All Programs
- ✓ Select Microsoft SQL Server 2005
- ✓ Select SQL Server Management Studio

After the program first time configures you will see the following screen:

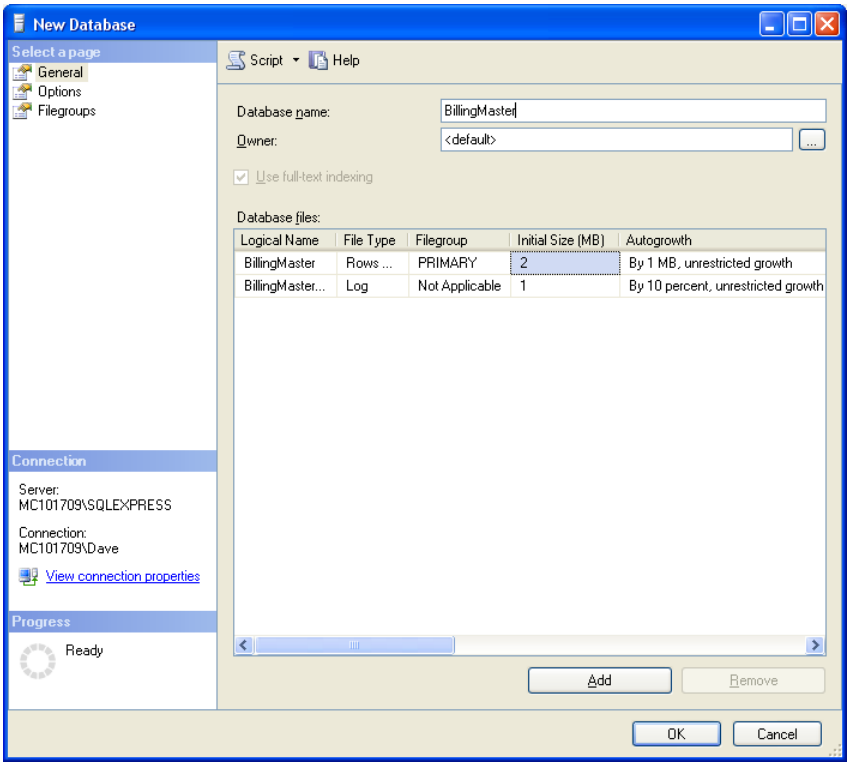
The Server Name will be the name of your server (or workstation). If you have downloaded the free version of SQL Server it followed by "\SQLExpress", as shown above.

Click the Connect button

Go to the Databases in the list:

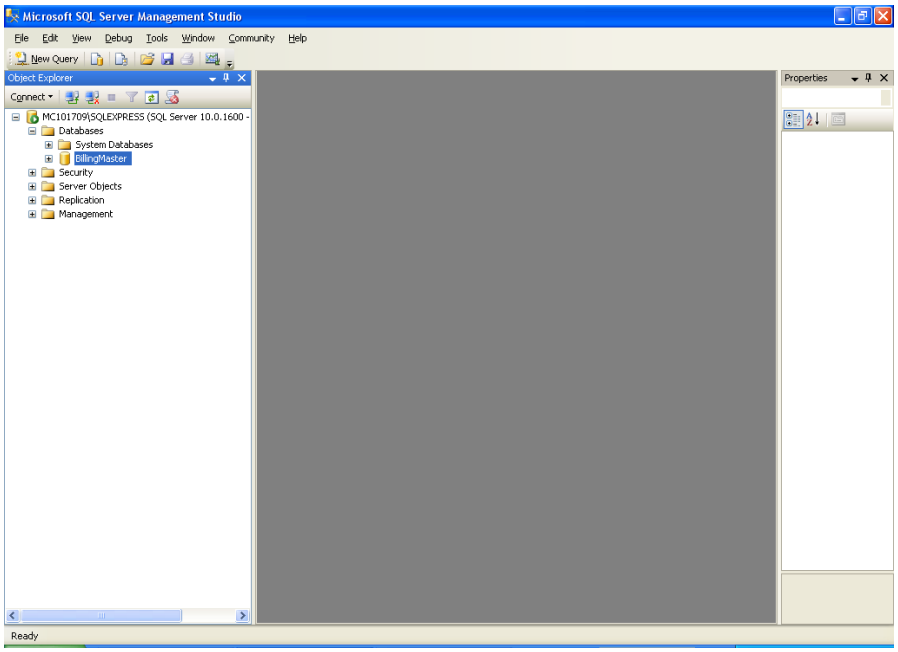


Right click on the Databases and select New Database:

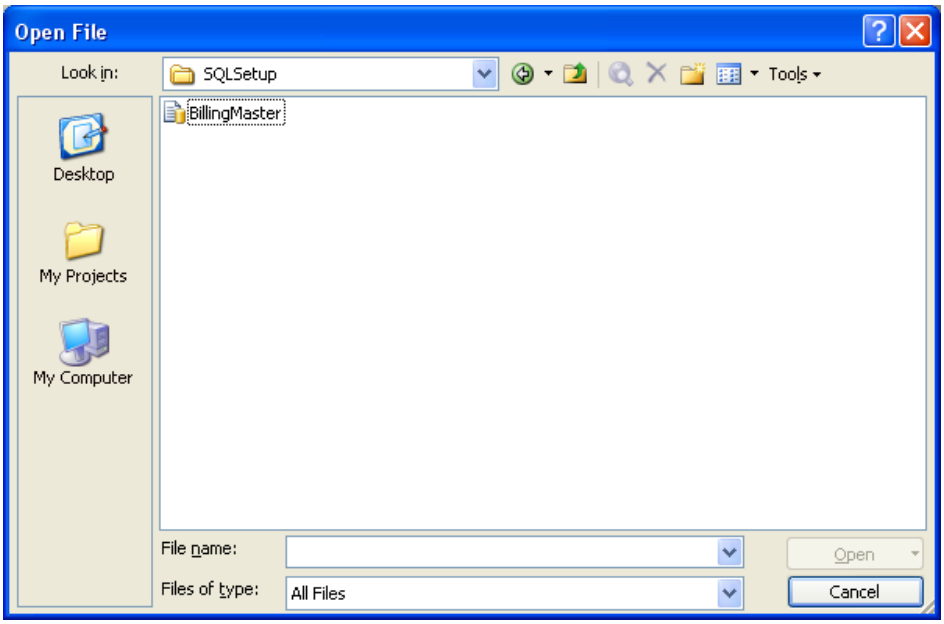


Enter the name of the database as BillingMaster. Then click the Ok button.

Now click the newly created database, so it is in blue:



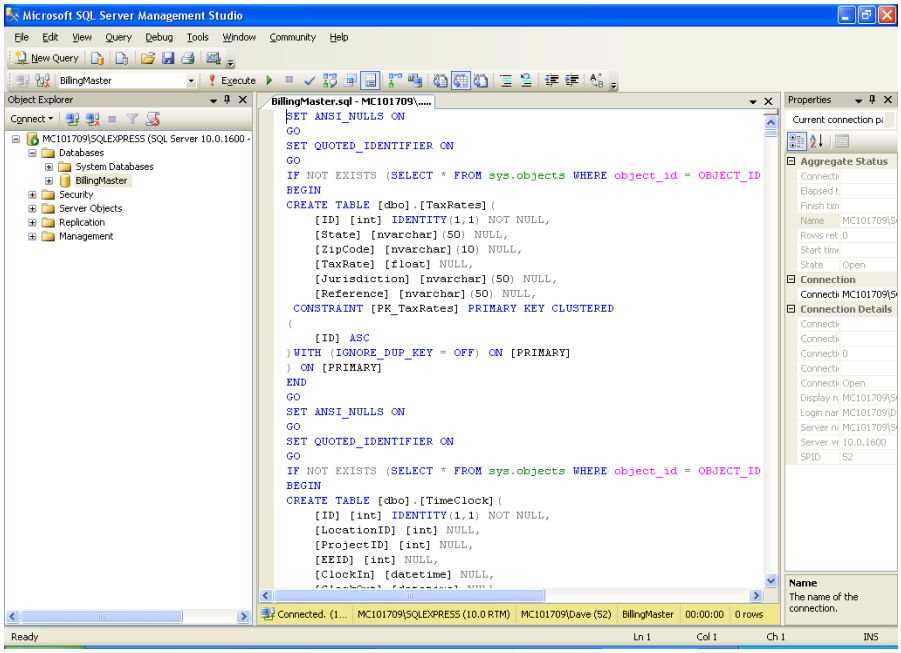
Select the menu item File, Open, File. Then go to the directory where you installed the Billing Master program. Select the "SQLSetup" directory, under this directory.



Select the BillingMaster file under this directory.

And click the Open button:

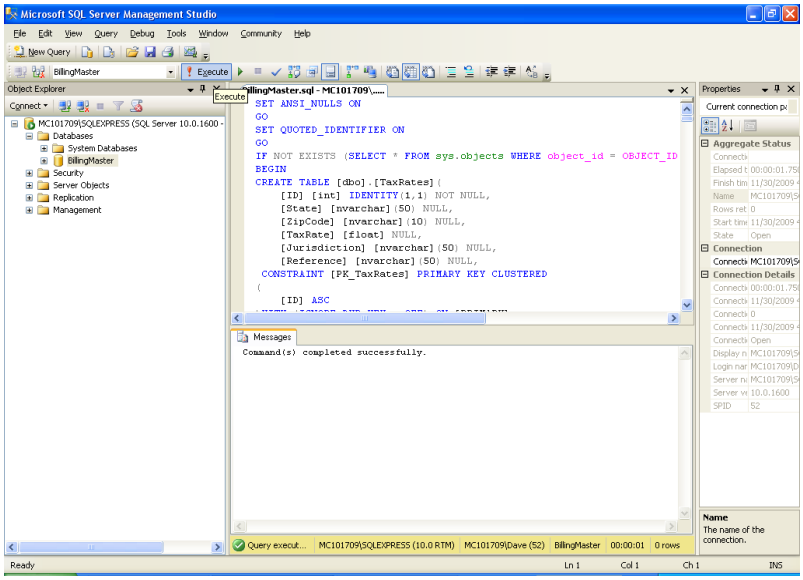
The contents of the file will now be displayed. Do not alter its contents.



Locate the red colored “! Execute” icon near the top of the screen. Make sure that BillingMaster is displayed in the drop-down box, located to the left of the icon.

After confirming this click the “! Execute” icon.

You will see that the command completed successfully after a relatively short period of time:



The database is now ready for the SQL sa user and anyone who is an administrator on this server/workstation. For setting up other users for access to the database refer to the Microsoft® help on SQL Server.

Proceed to step 4

4) Billing Master Program Licensing: (licensing the first two workstations is provided free of charge)

Contact us at 913-681-0801 and we will license your PC to use the program.

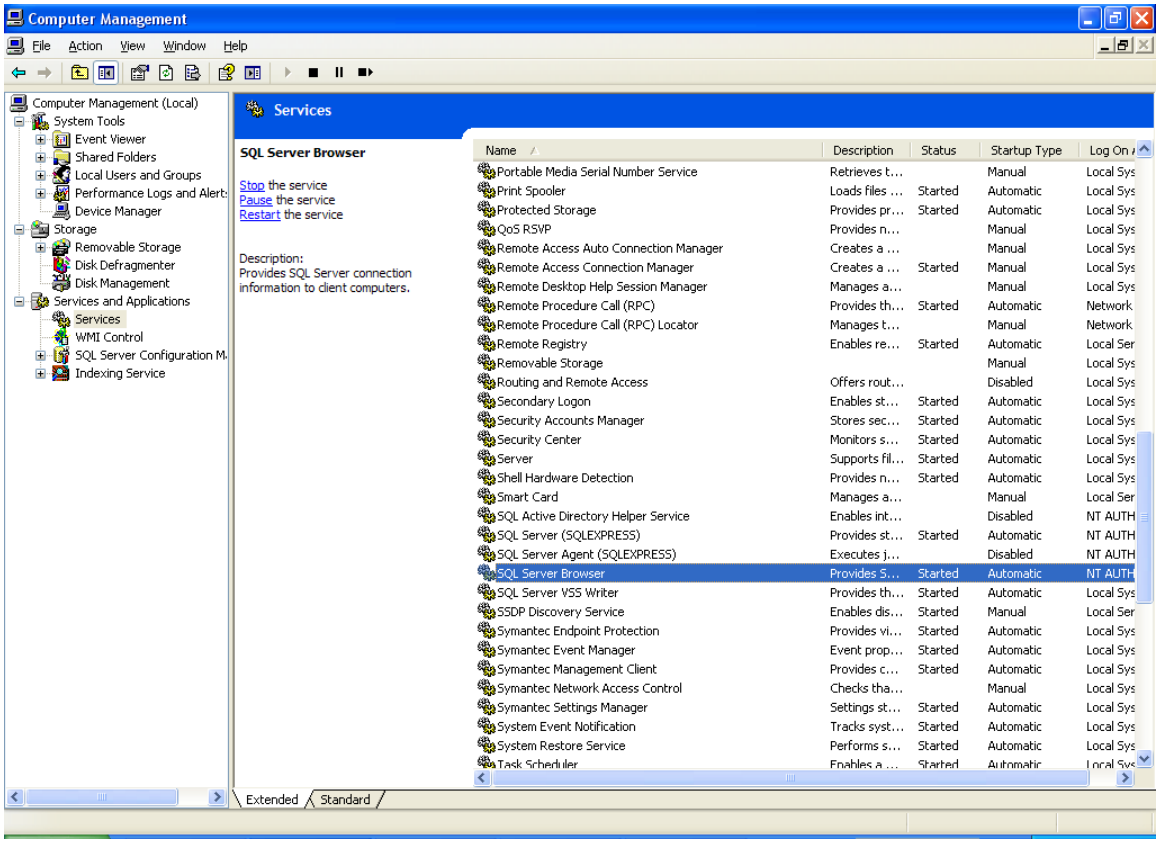
After we license you we will assist you with connecting to your SQL Server and confirm you can login to the program. This service is provided free of charge. If SQL Server is not configured correctly any assistance with this is chargeable. We will be able to inform you of this when we get your license setup.

SQL Server Networking Considerations

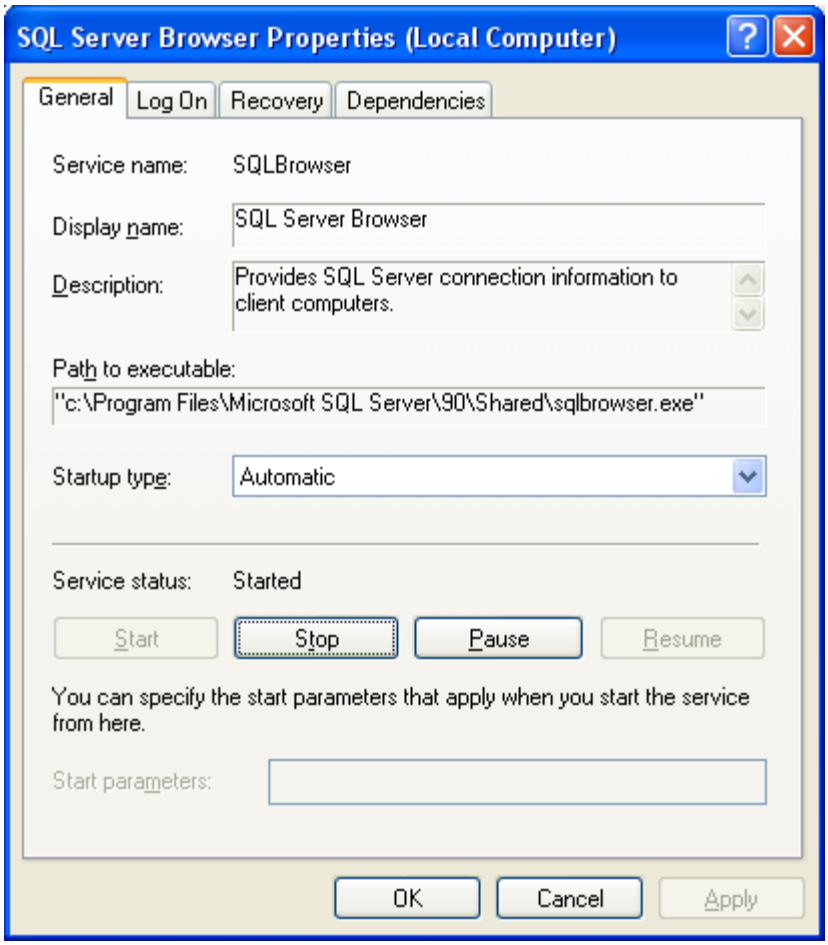
With SQL Server Express in a non-networked environment (single PC with SQL Server on the same workstation as Billing Master) connectivity is quite simple and is the default installation.

For networked use, SQL Server must be configured to allow other workstations to connect to it. The following guide will assist you in configuring SQL Server for networked use.

Go to the Computer Icon under the Start menu and right-click and select Manage.



Then select Services and set SQL Server Browser to Automatic (double-click to open the window shown below). After this you can start the service



Named Pipes vs. TCP/IP (Quoted from Microsoft):

In a fast local area network (LAN) environment, Transmission Control Protocol/Internet Protocol (TCP/IP) Sockets and Named Pipes clients are comparable with regard to performance. However, the performance difference between the TCP/IP Sockets and Named Pipes clients becomes apparent with slower networks, such as across wide area networks (WANs) or dial-up networks. This is because of the different ways the interprocess communication (IPC) mechanisms communicate between peers.

For named pipes, network communications are typically more interactive. A peer does not send data until another peer asks for it using a read command. A network read typically involves a series of peek named pipes messages before it starts to read the data. These can be very costly in a slow network and cause excessive network traffic, which in turn affects other network clients.

It is also important to clarify if you are talking about local pipes or network pipes. If the server application is running locally on the computer that is running an instance of SQL Server, the local Named Pipes protocol is an option. Local named pipes runs in kernel mode and is very fast.

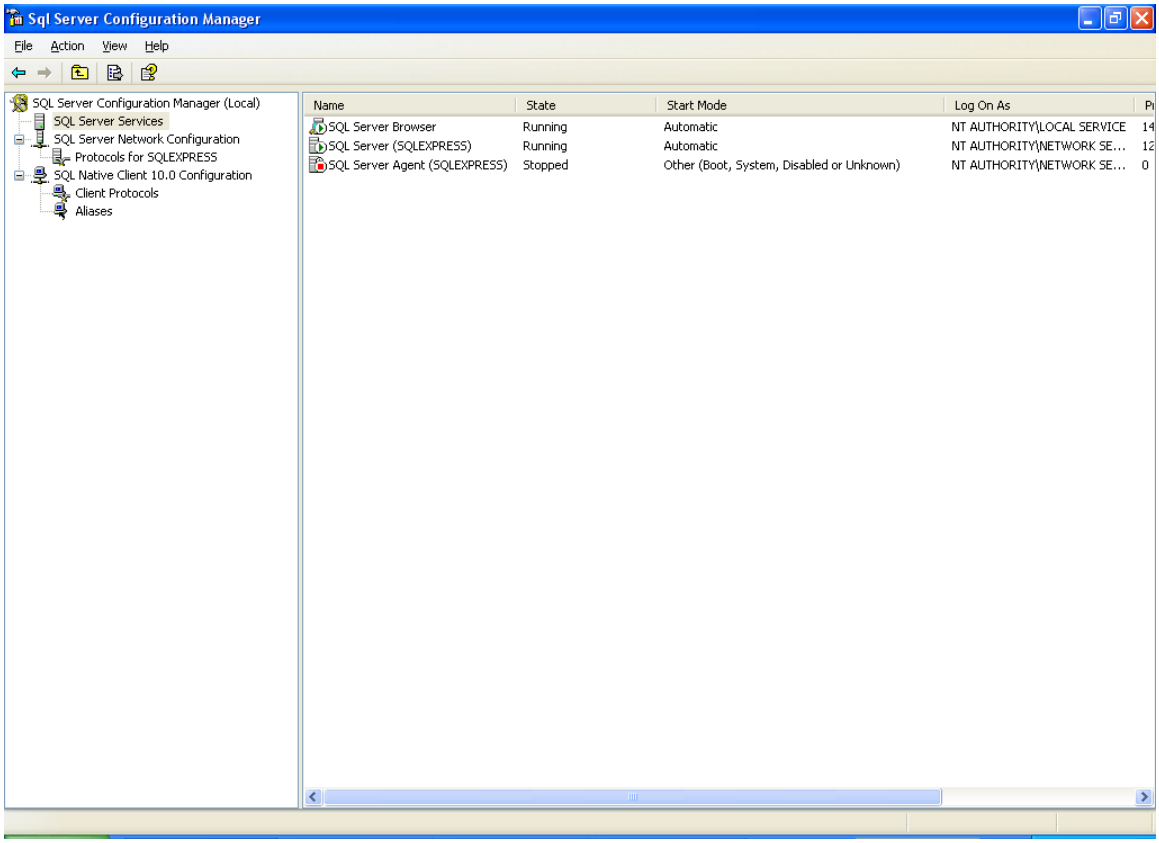
For TCP/IP Sockets, data transmissions are more streamlined and have less overhead. Data transmissions can also take advantage of TCP/IP Sockets performance enhancement mechanisms such as windowing, delayed acknowledgements, and so on. This can be very helpful in a slow network. Depending on the type of applications, such performance differences can be significant.

TCP/IP Sockets also support a backlog queue. This can provide a limited smoothing effect compared to named pipes that could lead to pipe-busy errors when you are trying to connect to SQL Server.

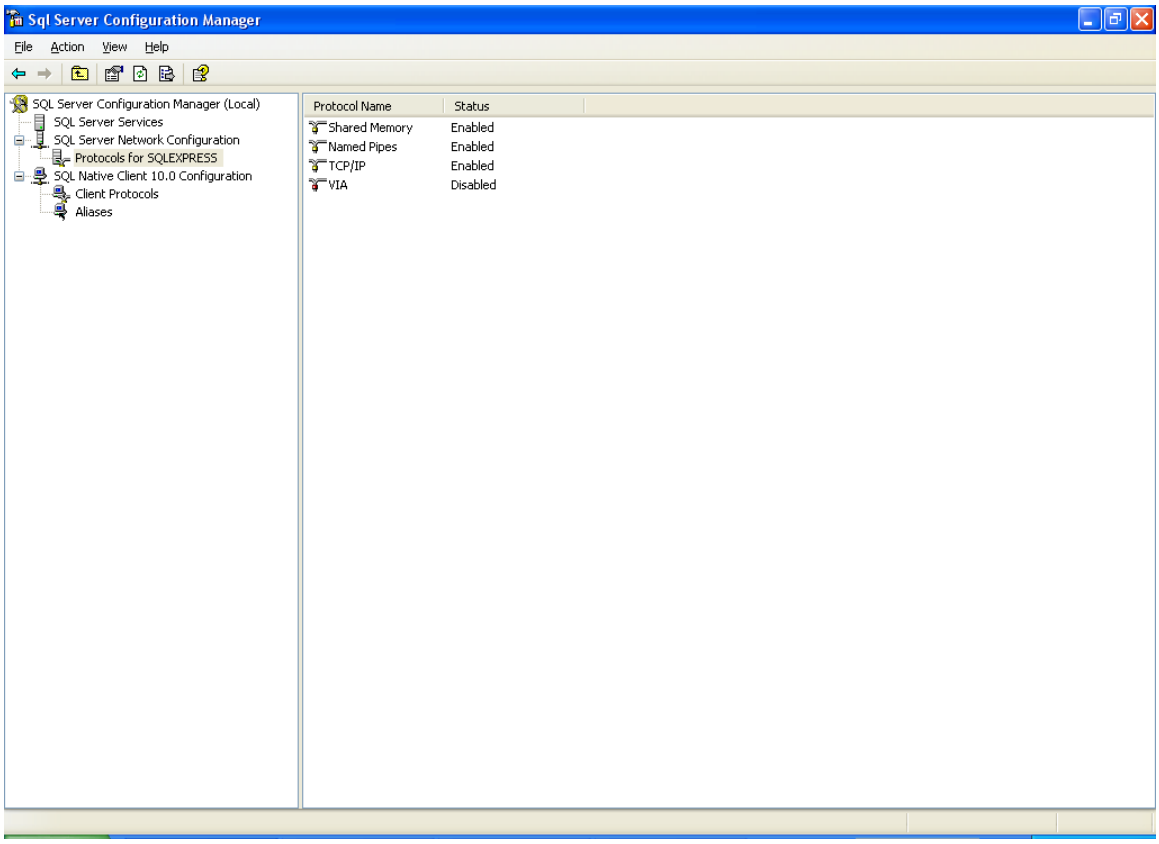
Generally, TCP/IP is preferred in a slow LAN, WAN, or dial-up network, whereas named pipes can be a better choice when network speed is not the issue, as it offers more functionality, ease of use, and configuration options.

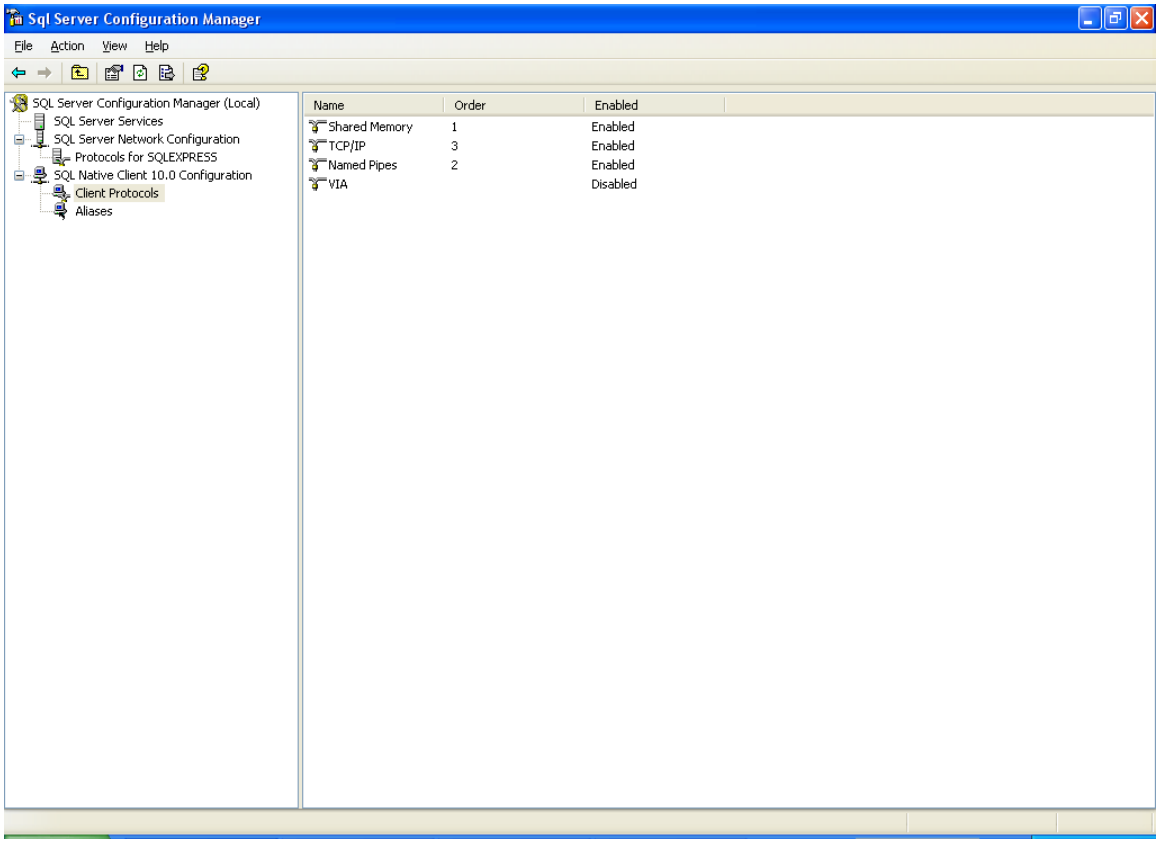
Open SQL Server Configuration Manager

Make sure the two services shown are running



We recommend enabling both “Named Pipes” and “TCP/IP” per the two sections shown: (note making changes may require you to stop and start the running services)


Sql Server Configuration Manager
File Action View Help
SQL Server Configuration Manager (Local)
SQL Server Services
SQL Server Network Configuration
Protocols for SQLEXPRESS
SQL Native Client 10.0 Configuration
Client Protocols
Aliases
Protocol Name
Status
Shared Memory
Enabled
Named Pipes
Enabled
TCP/IP
Enabled
VIA
Disabled


Sql Server Configuration Manager
File Action View Help
SQL Server Configuration Manager (Local)
SQL Server Services
SQL Server Network Configuration
Protocols for SQLEXPRESS
SQL Native Client 10.0 Configuration
Client Protocols
Aliases
Name
Order
Enabled
Shared Memory
1
Enabled
TCP/IP
3
Enabled
Named Pipes
2
Enabled
VIA
Disabled