



# How to Move an HP Systems Insight Manager SQL 2008 Database from a Local to a Remote Server White Paper

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# Introduction

This white paper describes how to move an HP Systems Insight Manager SQL Server 2008 R2 database from a local server to a remote server.

## Enabling Remote Connection to SQL Server 2008 R2

### Enabling SQL Server and Windows Authentication mode

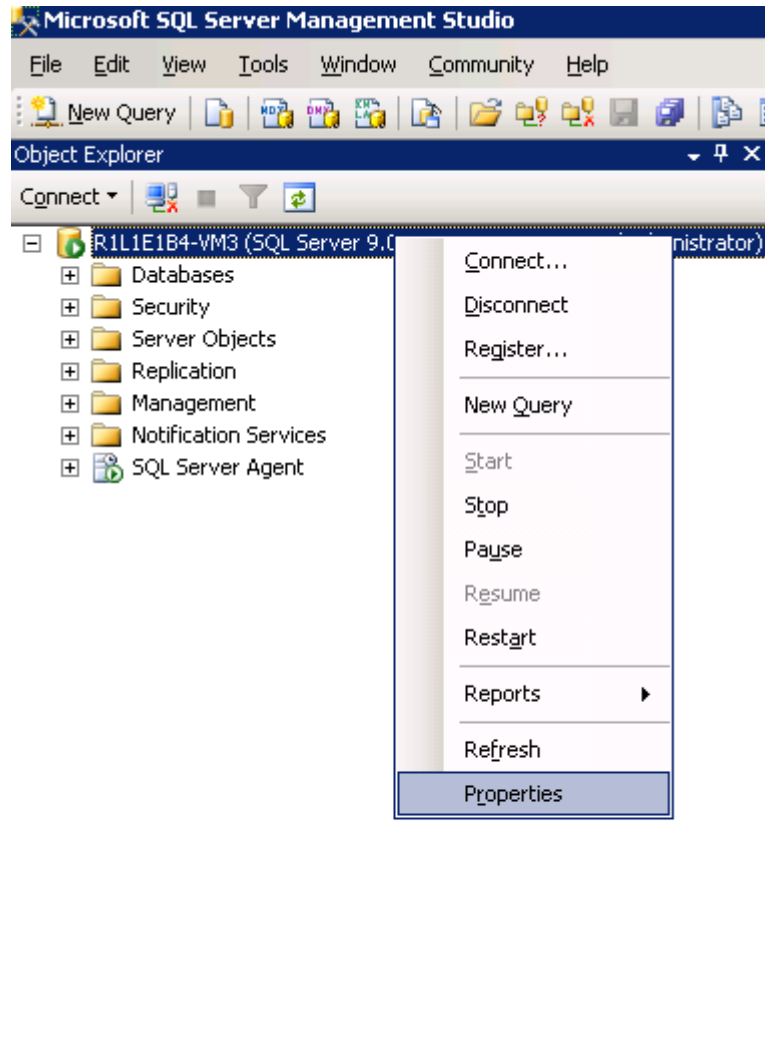
1. Log in to SQL Server using SQL Server Management Studio on local SQL Server with Windows® Authentication user. The Windows account authenticates SQL Server.

Figure 1: Connecting to the server



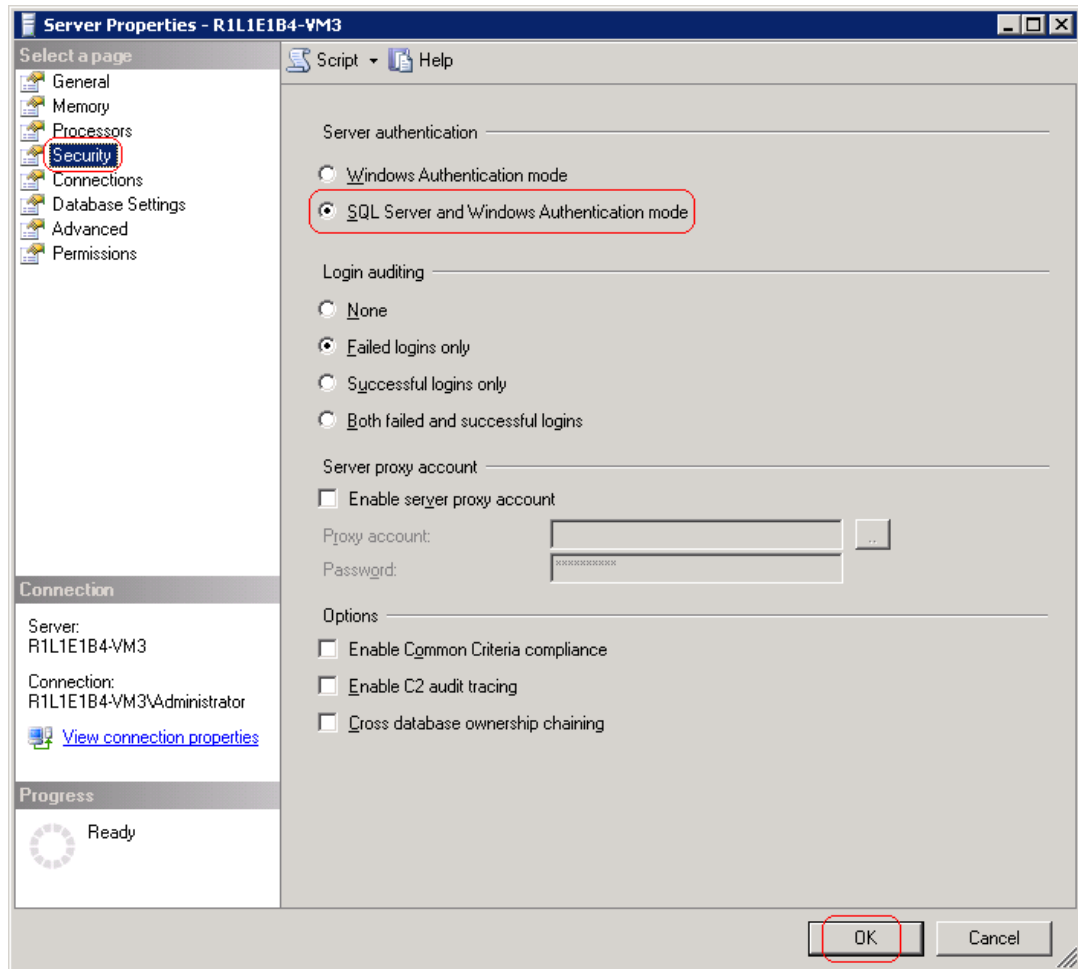
2. In Object Explorer, right-click the instance name and select **Properties**.

Figure 2: Object Explorer



3. On the left side, select **Security**, and change Server authentication to **SQL Server and Windows Authentication mode**. If this setting is already selected, then SQL Server authentication is enabled.

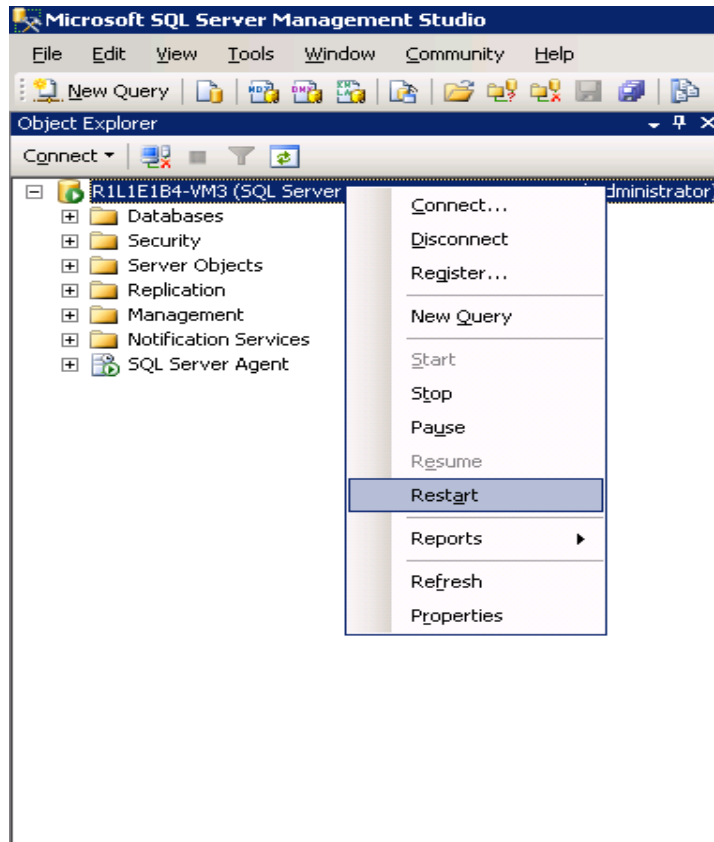
Figure 3: Server Properties



4. Restart the SQL Server so that the changes can take effect.

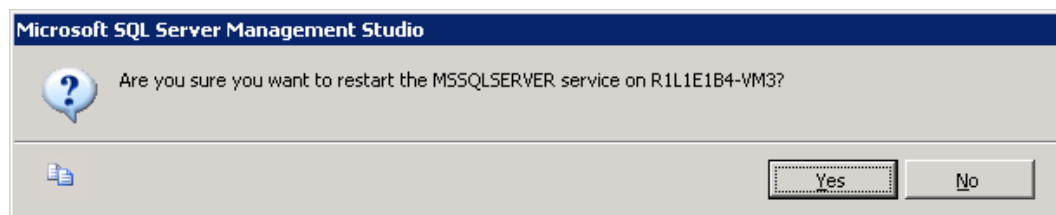
5. Right-click the instance name again, and select **Restart**.

Figure 4: Object Explorer



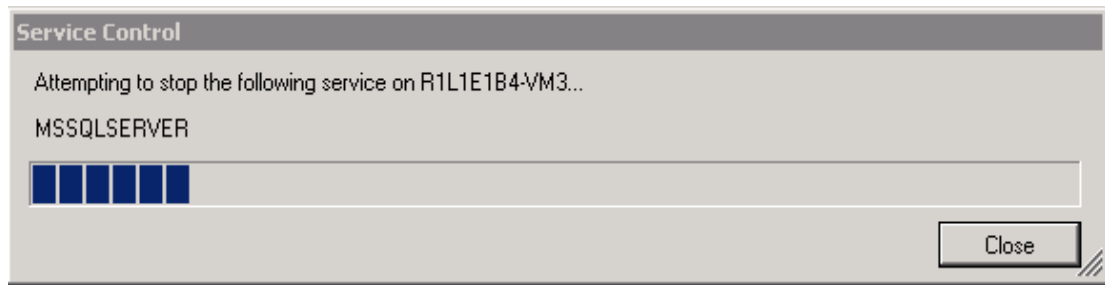
6. Select **Yes**.

Figure 5: Information dialog



7. Wait for the service to stop and start.

Figure 6: Attempting to stop service



8. Both SQL Server and Windows authentication have been enabled. You can now log in to SQL Server with your current Windows account or your created account.

**NOTE:**

If SQL Server 2008 Express R2 is installed locally, SQL authentication fails with Microsoft SQL Server error 18456. Use one of the following procedures to authenticate the SQL login.

- Enable the sa login using Transact-SQL.
  1. In Object Explorer, connect to an instance of Database Engine.
  2. On the Standard bar, click **New Query**.
  3. Copy and paste the following example into the query window and click **Execute**. The following example enables the sa login and sets a new password.

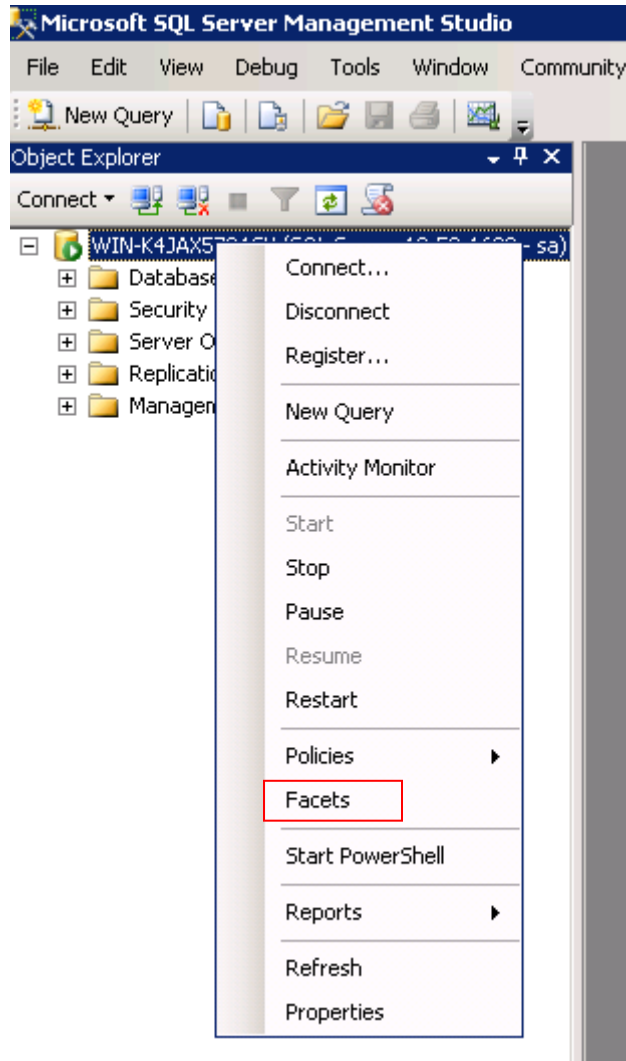
```
ALTER LOGIN sa ENABLE ;
GO
ALTER LOGIN sa WITH PASSWORD =
'<enterStrongPasswordHere>' ;
GO
```
- Enable the sa login using Management Studio.
  1. In Object Explorer, expand **Security**, expand **Logins**, right-click **sa**, and click **Properties**.
  2. On the General page, you might have to create and confirm a password for the sa login.
  3. On the Status page, in the Login section, click **Enabled**, and then click **OK**.

The previous troubleshooting is skipped if Microsoft SQL 2008 Express R2 (bundled with HPSIM 7.0) or Microsoft SQL Server 2008 (SP2) – 10.0.4000.0 (X64) [Express Edition] (installed locally) is used. Use the Import & Export utility installed with the database. If you use this utility, skip steps 7-13 in the section [Moving the database from a local to a remote server](#).

## Enabling remote connection on SQL Server Surface Area Configuration

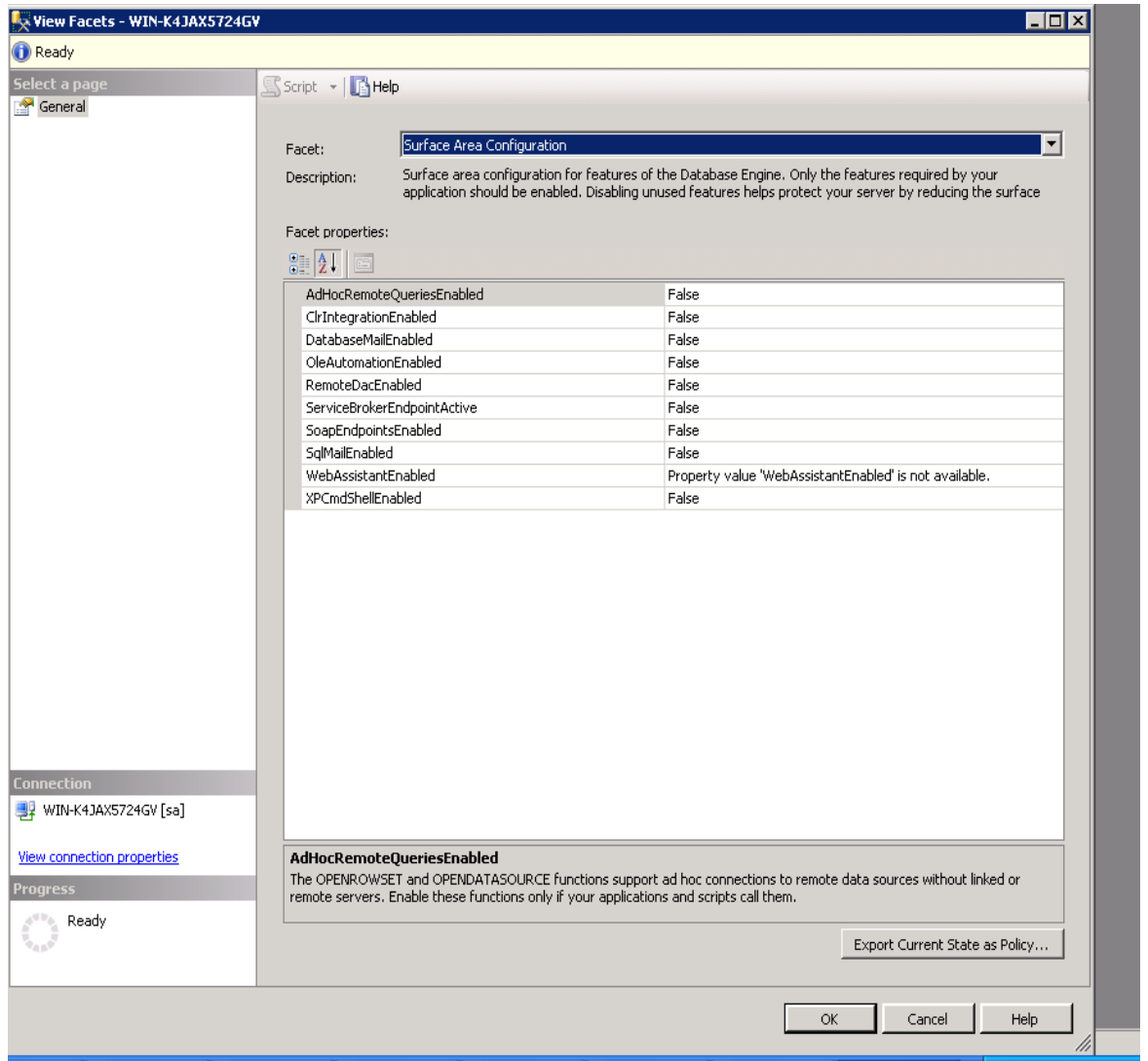
1. Open SQL Server Surface Area Configuration.
2. Right-click the server and click **Facets**.

Figure 7: SQL Server 2008 Surface Area Configuration



3. Select **Surface Area Configuration** in the Facet box. All services should be set to **False**.

Figure 8: SQL Server 2008 Surface Area Configuration



0

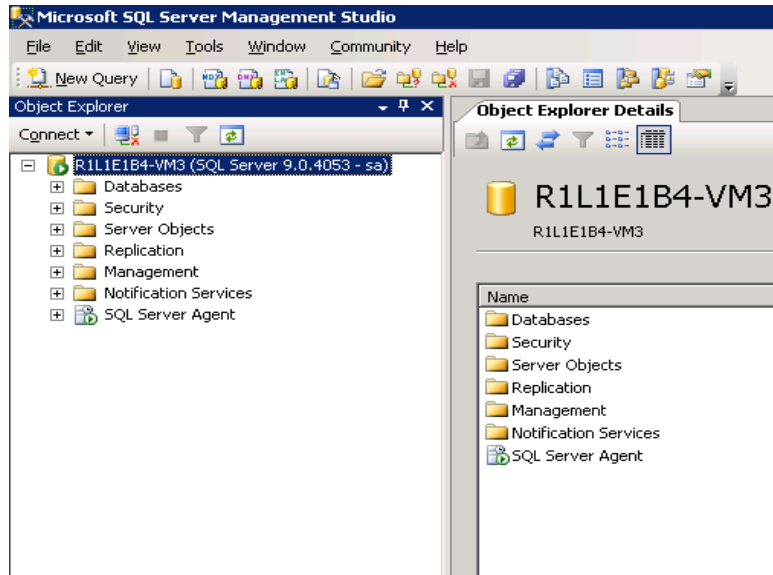


4. Log in to SQL Server.

Figure 9: Connect to the server



Figure 10: Microsoft SQL Server Management Studio



## Moving the database from a local to a remote server

1. Stop and disable the Systems Insight Manager service running on the local server.
2. Open SQL Server Management Studio on the local server:

**Programs→Microsoft SQL Server 2008 SQL Server Management Studio**

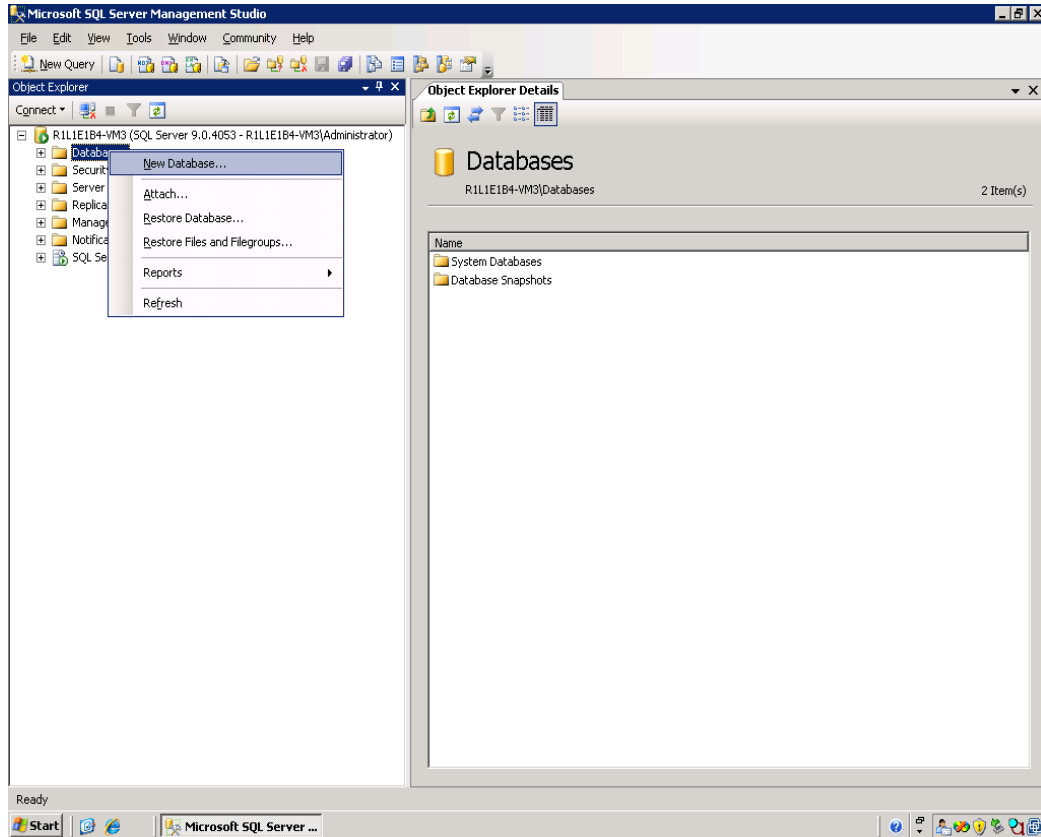
Figure 11: Connecting to the remote SQL Server



3. With default settings in the Connect to Server window, click **Connect**.
4. Record the database name (for example, *Insight\_v50\_xxxxxxxxx*).

5. Create a new SQL Server 2008 database on the target database server.
  - a. Open SQL Server Management Studio on the target database server:  
**Programs→Microsoft SQL server 2008→SQL Server Management Studio.**
  - b. Right-click **Database**, and then select **New Database**.

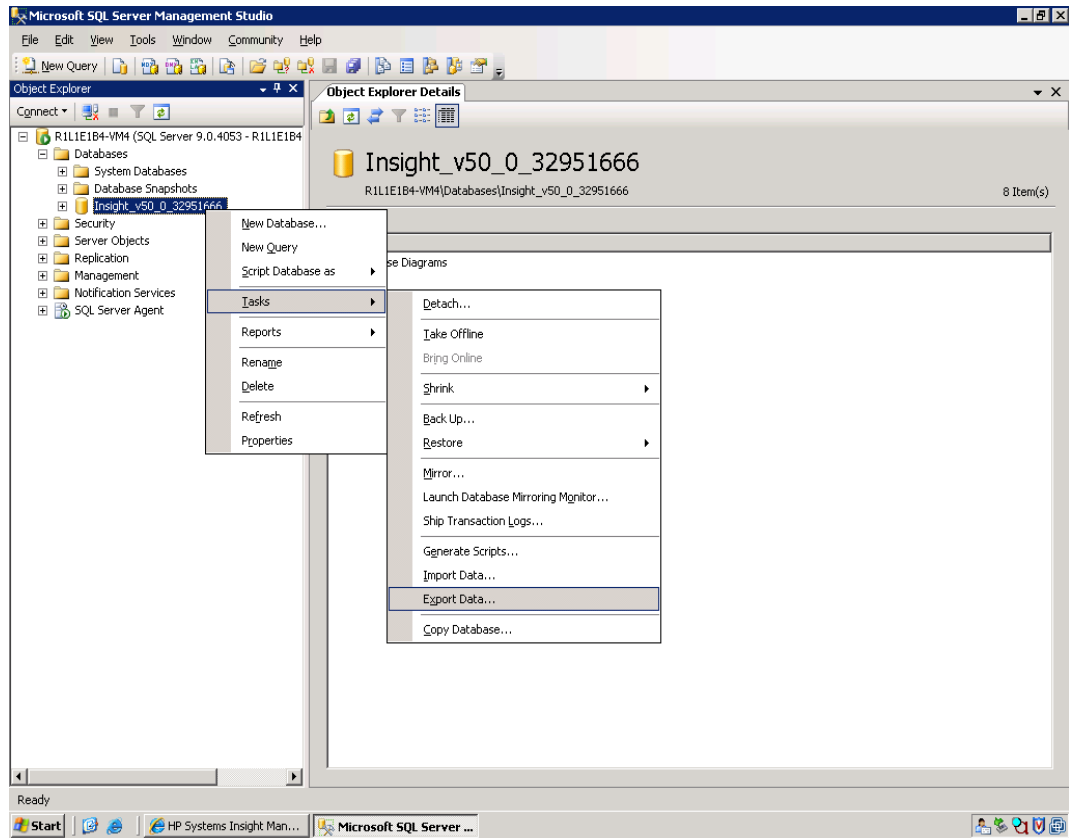
Figure 12: Creating a database



- c. Enter the name of the database recorded in step 4, and then click **OK** with the default settings selected.
6. On the local database server, right-click the name of the Insight database (for example, *Insight\_v50\_XXXXXXXXXX*).

## 7. Select **Tasks**→**Export data**.

Figure 13: Export Data



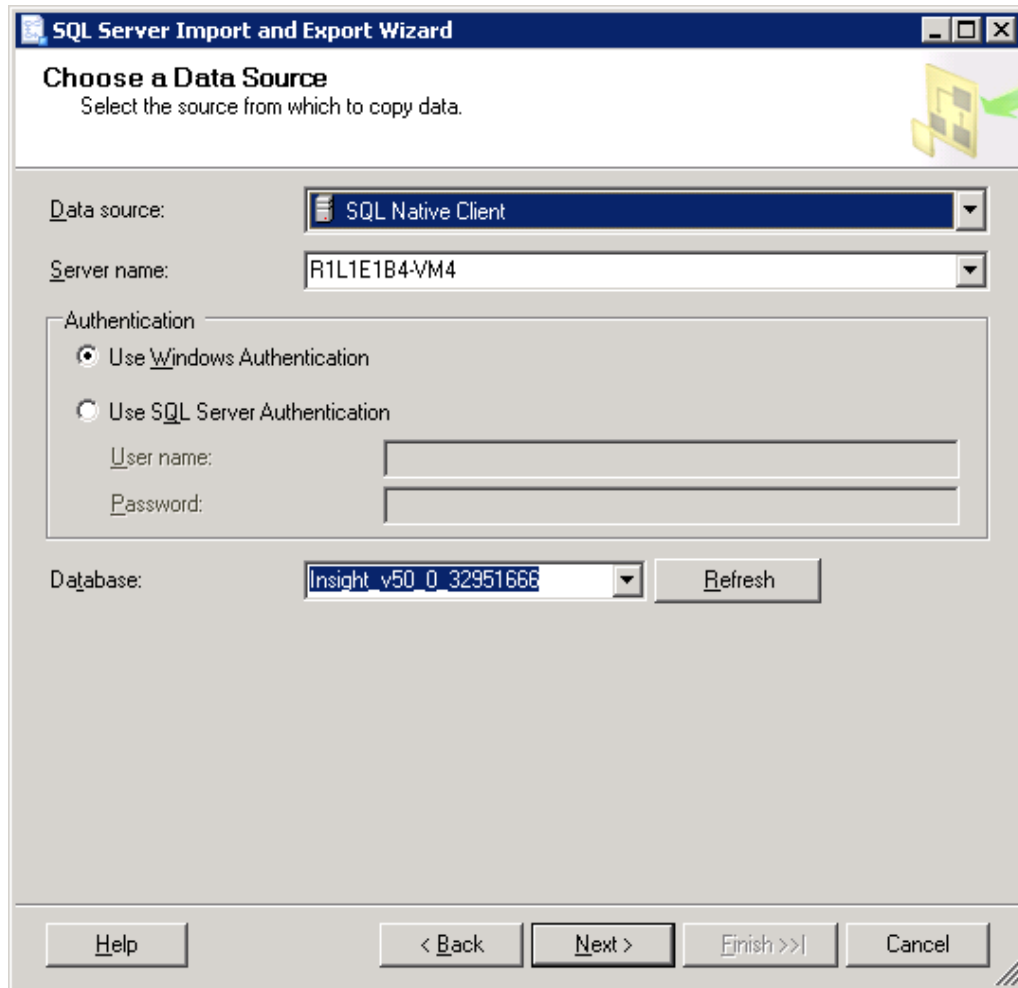
8. In the Welcome to SQL Server Import and Export Wizard window, click **Next**.

Figure 14: Import and Export Wizard



9. In the **Choose a Data Source** window, use the default settings of **Windows Authentication**, or choose the authentication method you used for your database. Click **Next**.

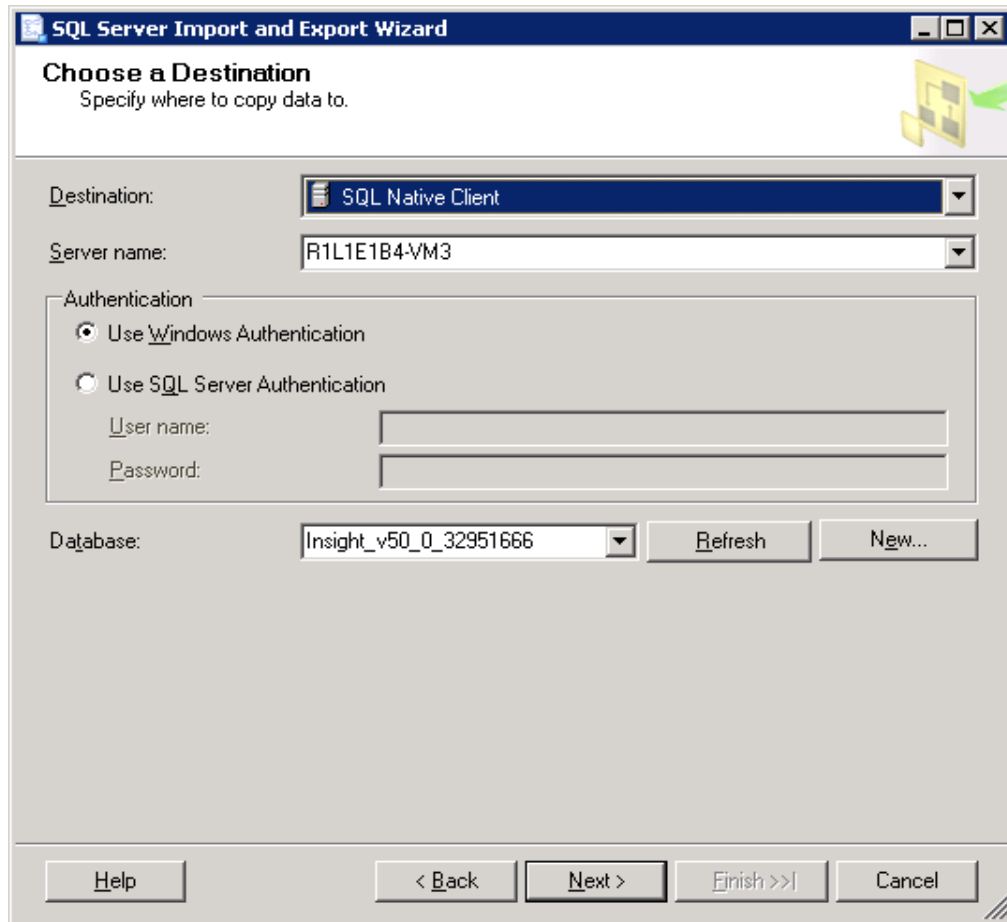
Figure 15: Choose a Data Source



The screenshot shows the 'SQL Server Import and Export Wizard' window, specifically the 'Choose a Data Source' step. The window title is 'SQL Server Import and Export Wizard' and the subtitle is 'Choose a Data Source'. Below the subtitle, it says 'Select the source from which to copy data.' The 'Data source' dropdown is set to 'SQL Native Client'. The 'Server name' dropdown is set to 'R1L1E1B4-VM4'. Under the 'Authentication' section, 'Use Windows Authentication' is selected with a radio button. Below this, there are empty text boxes for 'User name:' and 'Password:'. The 'Database' dropdown is set to 'Insight\_v50\_0\_32951666', and there is a 'Refresh' button next to it. At the bottom of the window, there are five buttons: 'Help', '< Back', 'Next >', 'Finish >>', and 'Cancel'.

10. In the Choose a Destination window, select the target database server from the list. Select the database created in Step 5 from the **Database** list at the bottom of the window.

Figure 16: Choose a Destination



The screenshot shows the 'SQL Server Import and Export Wizard' window, specifically the 'Choose a Destination' step. The window title is 'SQL Server Import and Export Wizard' and the subtitle is 'Choose a Destination Specify where to copy data to.' The 'Destination' dropdown is set to 'SQL Native Client'. The 'Server name' dropdown is set to 'R1L1E1B4-VM3'. Under the 'Authentication' section, 'Use Windows Authentication' is selected. The 'Database' dropdown is set to 'Insight\_v50\_0\_32951666'. There are 'Refresh' and 'New...' buttons next to the database dropdown. At the bottom, there are 'Help', '< Back', 'Next >', 'Finish >>', and 'Cancel' buttons.

SQL Server Import and Export Wizard

**Choose a Destination**  
Specify where to copy data to.

Destination: SQL Native Client

Server name: R1L1E1B4-VM3

Authentication

Use Windows Authentication

Use SQL Server Authentication

User name:

Password:

Database: Insight\_v50\_0\_32951666 Refresh New...

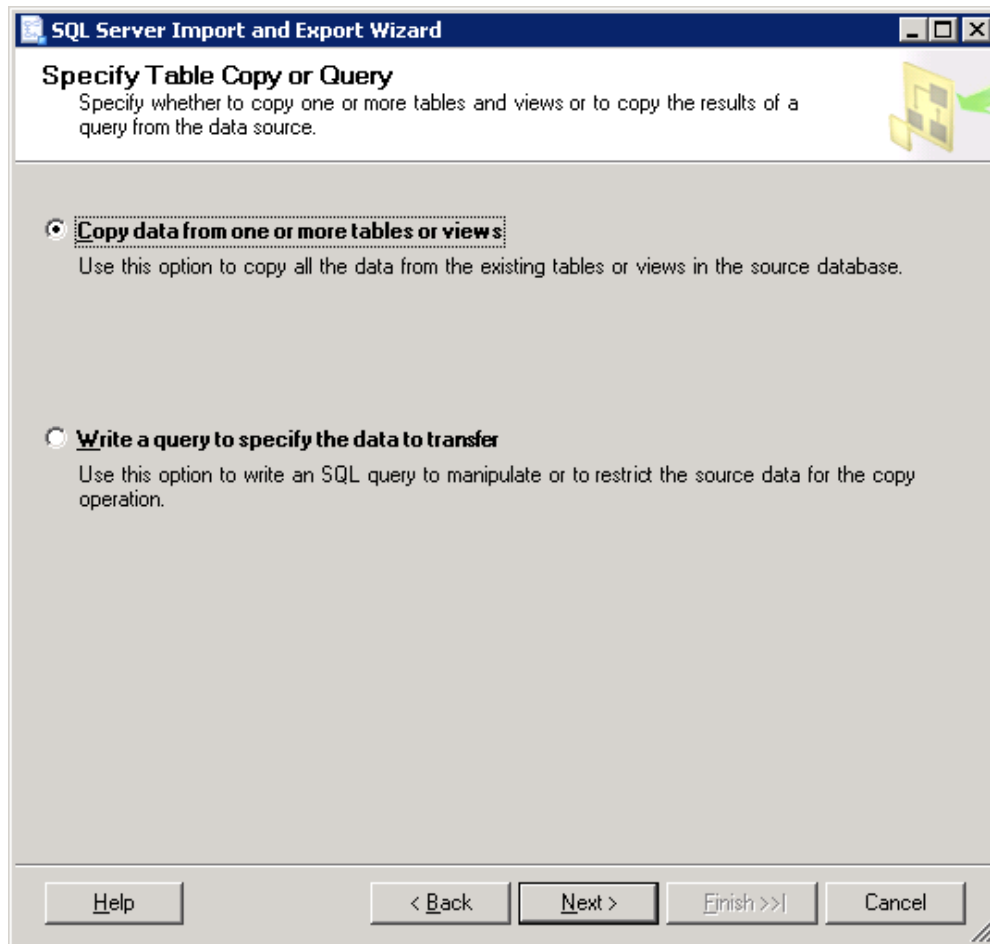
Help < Back Next > Finish >> Cancel

11. In the Specify Table Copy or Query dialog window, select **Copy data from one or more tables or views**, and then click **Next**.

If there is any error while connecting to the remote server of the Export Wizard such as Named pipes provider could not open a connection to sql server, verify the following steps:

- Click **Start** → **All Programs** → **Microsoft SQL Server 2008 R2** → **Configuration tools** → **SQL Configuration Manager** → **SQL Native Client 10.0**.
- Right-click **Client Protocols**, and then click **Properties** → **Promote TCP/IP ahead of named pipes**. Make sure this setting is enabled.
- Check the network name of the remote server. To eliminate network resolution issues, try to connect to the remote server from the local SQL Server machine through `sqlcmd` or try to set up the linked server with the IP address of the remote machine instead of the name of the remote machine.

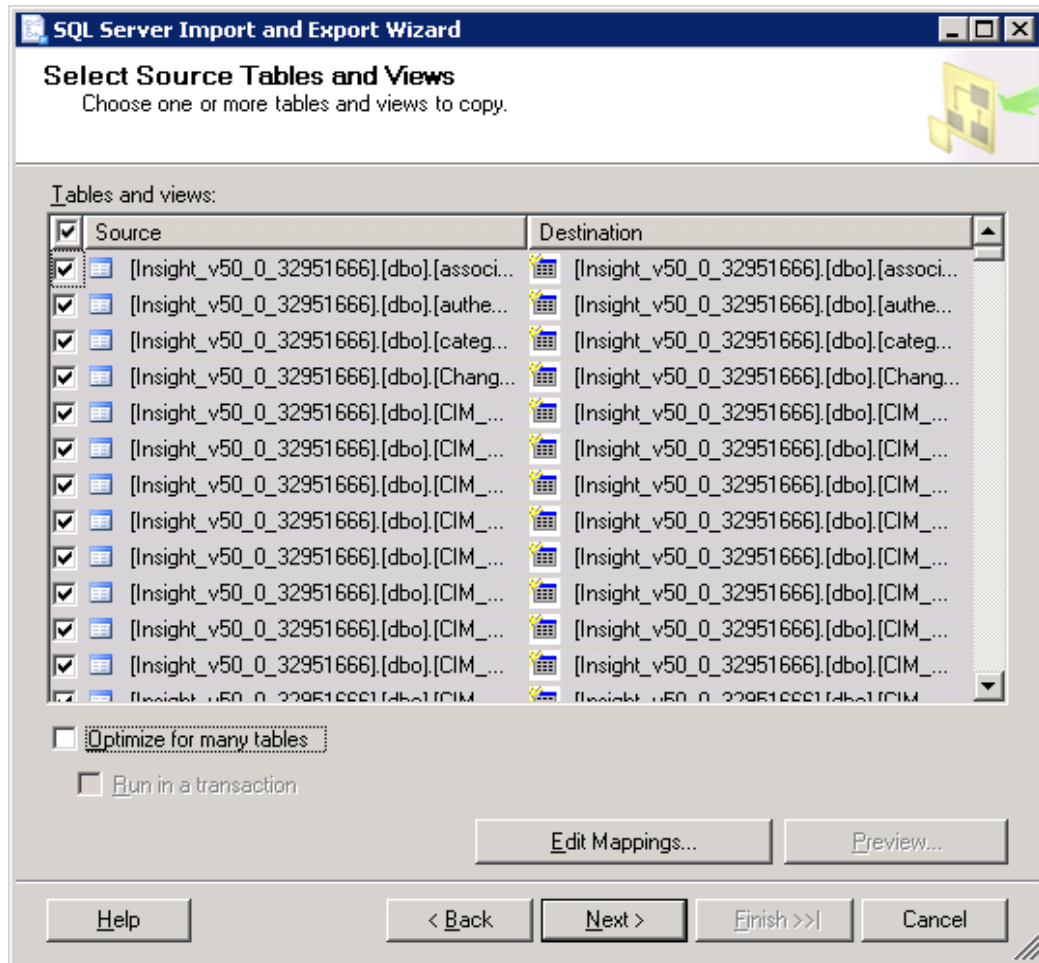
Figure 17: Specify Table Copy or Query





12. In the Select Source Tables and Views window, select the “select all” check box, and then click **Next**. A window appears.

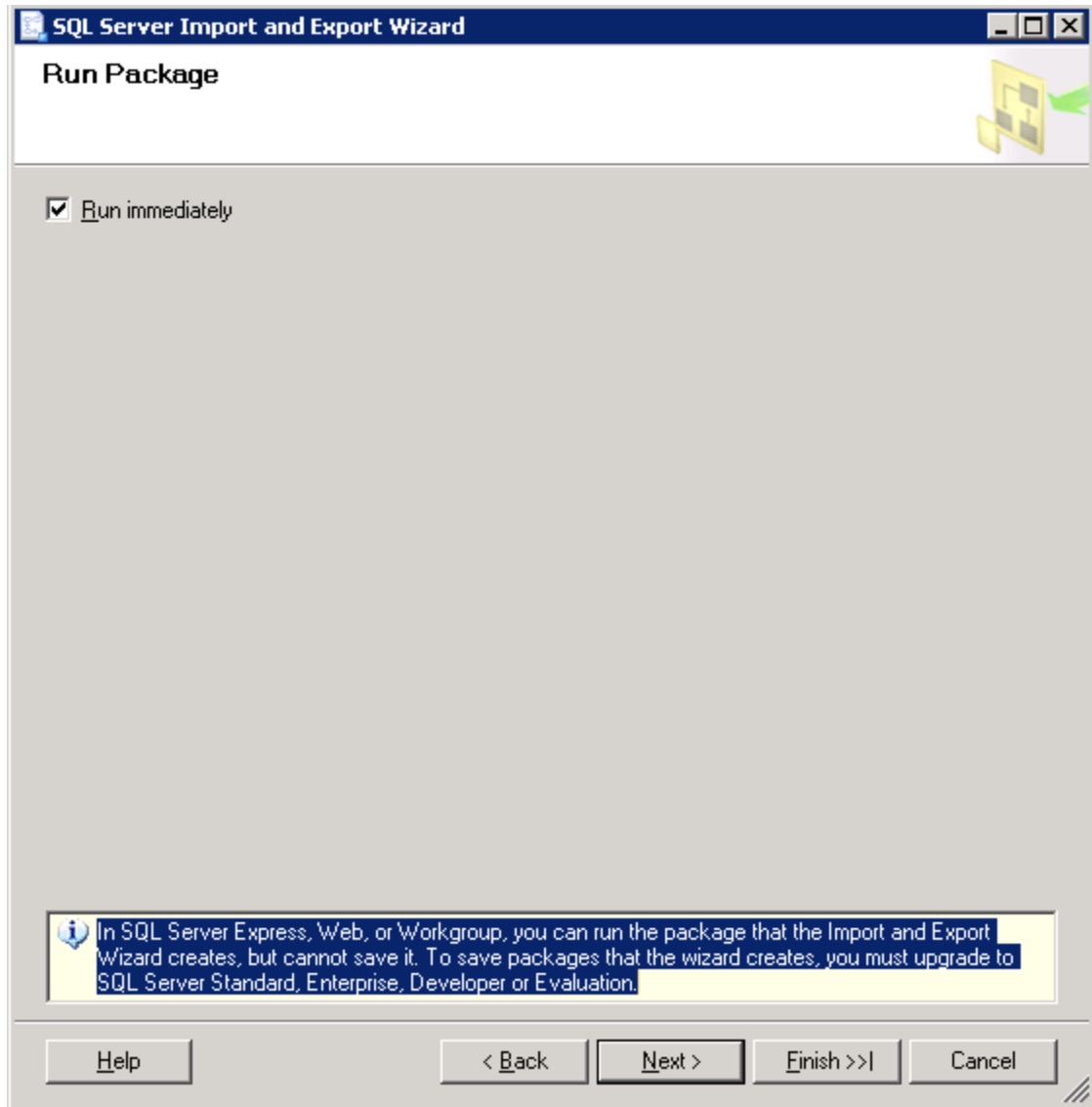
Figure 18: Select Source Tables and Views



13. Click **Yes**.

14. In the Run Package window, the **Run immediately** box is checked with an information box at the bottom of the window. Keep this default setting and click **Next**.

Figure 19: Pop-up Window



**NOTE:**

The Save and Execute Package window appears if the SQL Server chosen is Standard or Enterprise. It is not applicable to SQL Server 2008 Express (installed locally) or SQL Server 2008 Express R2 (bundled with HPSIM).

Figure 20: Save and Execute Package window

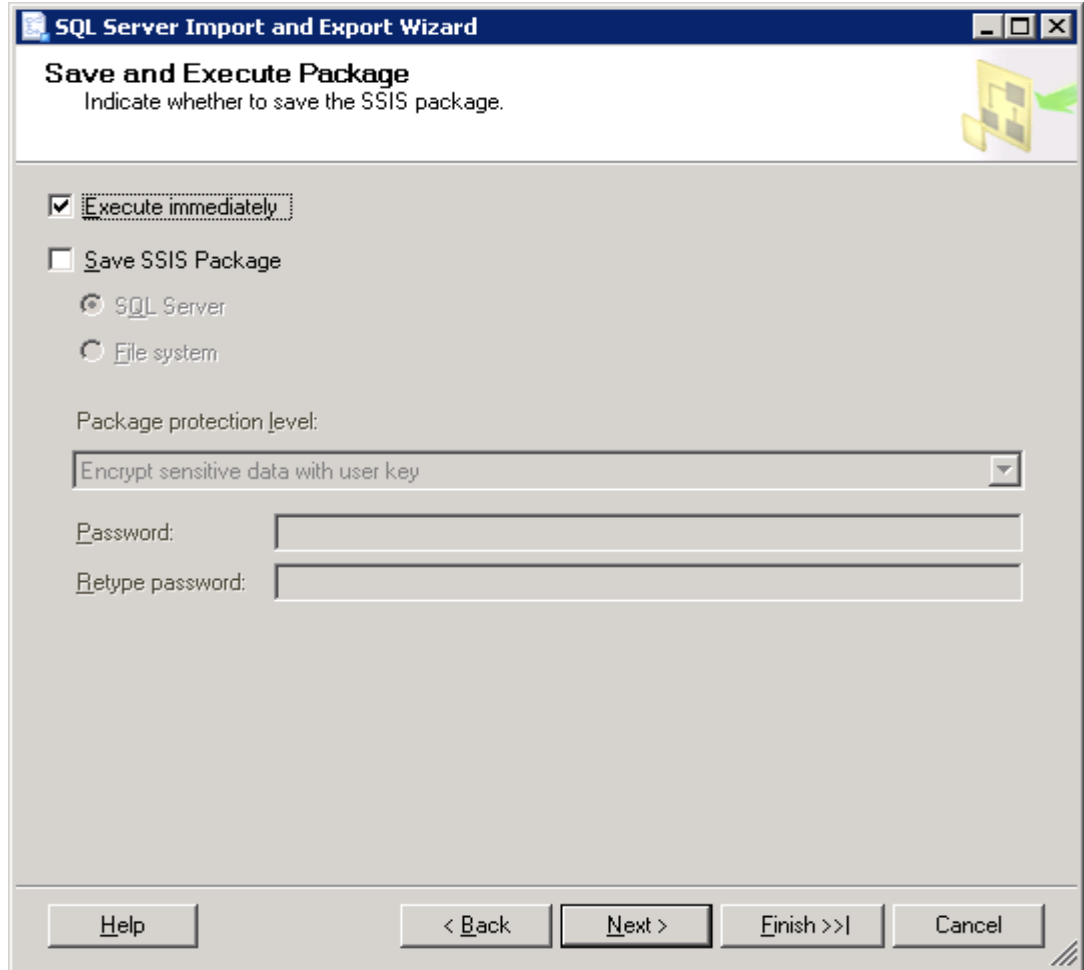
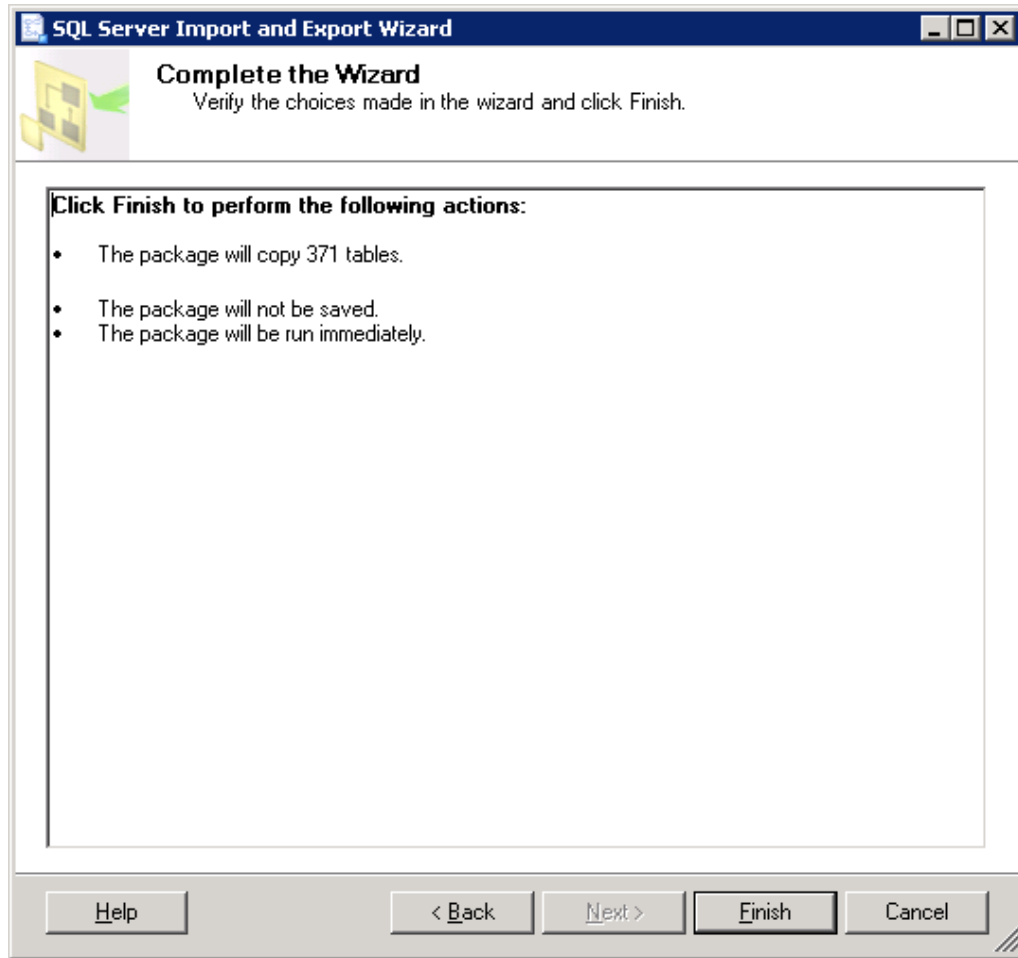
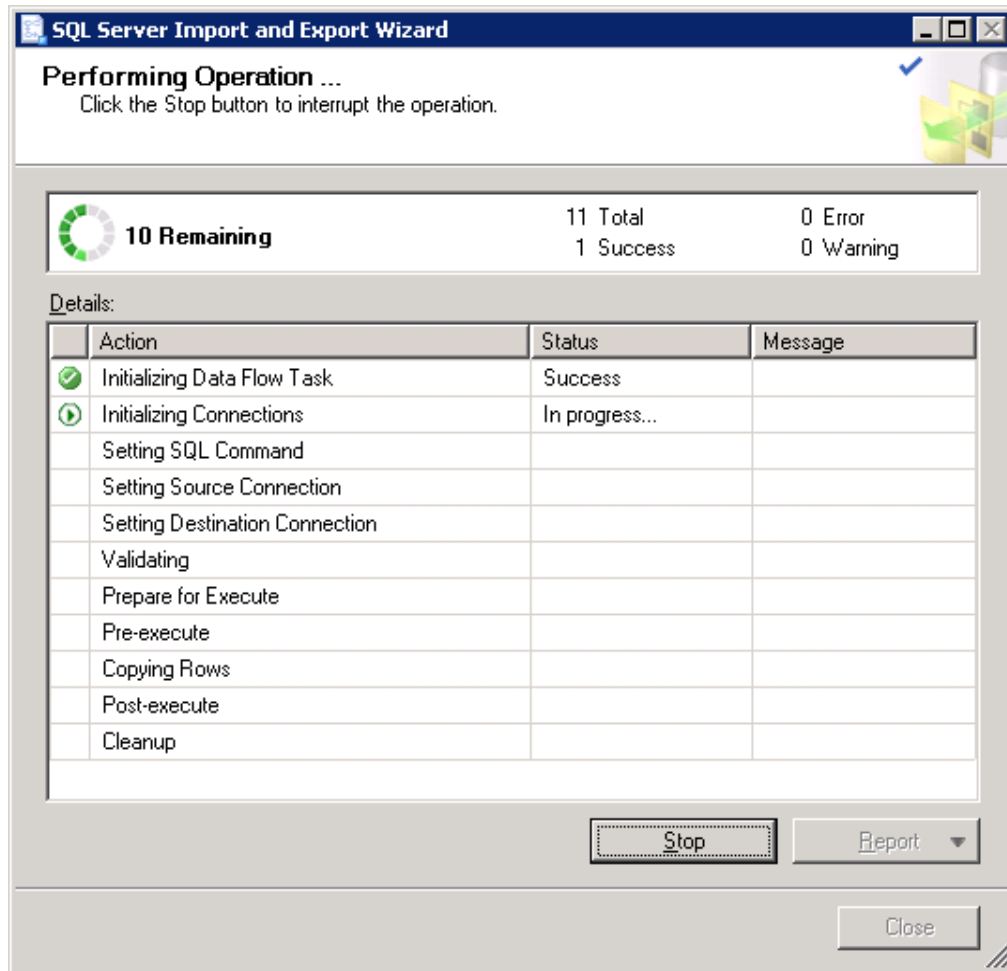


Figure 21: Complete the Wizard



15. After the tasks have completed, stop and disable the SQL Service. Data is successfully migrated from the source database server to the target database server.

Figure 22: Performing Operation



# Systems Insight Manager Installation Directory

## Manually re-registering a new database by altering the HPSIM configuration files

1. Create a backup of the `database.props`, `database.admin`, `databaseadminupd.tpl` and `databaseupdate.tpl` files located in `<installation directory>\HP\System Insight Manager\config`.
2. You must modify some settings for the new database changes in Systems Insight Manager in each of the following property files: `database.props`, `database.admin`, `databaseadminupd.tpl` and `databaseupdate.tpl` files. Update these files with the following information, and then save the files.
  - a. Change the value after `hp.Database.hostName=source-server-name` to `target-server-name`.
  - b. Change the value after `hp.Database.instancename=source-server-name \\source-instance` to `target-server-name\\target_database_instance`.
  - c. If the database user account is a local user account, change the value after `hp.Database.username=source-server-name` to `target-server-name\\username`.
  - d. If moving to a different SQL server, it may use a different port. If this is the case, update the value after `hp.Database.portNumber=` to the new port number.
3. Create a backup of the `hpsim-ds.xml` file located in the `<installation directory>\HP\System Insight Manager\jboss\server\hpsim\deploy` directory. Do not place the backup file in this directory.
4. Modify the `hpsim-ds.xml` file located in the `<installation directory>\HP\System Insight Manager\jboss\server\hpsim\deploy` directory.
  - a. Locate the line with the `<connection-url>` XML tag; it will look similar the following:

```
<connection-url>jdbc:jtds:sqlserver://dbServerName:1433/Insight v50 0 ###;loginTimeout=20;domain=dbServerName;instance=source-instance</connection-url>
```
  - b. Change the `dbServerName` text from the old SQL Server host name to match the new SQL Server host name.
  - c. If moving to a different SQL server it may use a different port. If this is the case update the port number that follows the first `dbServerName` (for example, `dbServerName:1433`).
  - d. If the target database has a different database instance, update the instance name after the `instance=` parameter.
5. Start the Systems Insight Manager service.

## Automated re-registration of a database by executing the `mxreconfig` command

```
mxreconfig -m sqlredirect -s dbserver -b dbname -a dbuserDomain\dbuser -p dbport
```

The path for executing the `mxreconfig` command is as follows:

```
<Installed Directory>\HP\System Insight Manager\mxreconfig\bin
```

- m (mode option – specifies reconfiguration mode)
- s (dbserver parameter - name of the new database server)
- b (dbname parameter - name of the new database)
- a (dbuser parameter - name of the database user with administrative privileges; must include domain name)
- p (dbport parameter - port number to access the new database server)

## For more information

For more information on Systems Insight Manager, visit the HP website (<http://www.hp.com/go/hpsim>).

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