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## Overview

Microsoft SQL 2008 is now available. This document investigates the installation and configuration of SQL2008 and, soon, whether it is possible to make SalesLogix 7.2 work with it.

This is not an exhaustive list of new features – just what was discovered as they appeared when running the install. More information on feature sets can be found at <http://www.microsoft.com/sqlserver/2008/en/us/default.aspx>

A feature list by comparison of versions is listed at: <http://www.microsoft.com/sqlserver/2008/en/us/overview.aspx>

## Software Used

- ◆ Windows 2003 Server R2 - Version 5.2 Build 3790 (SP2)
- ◆ Microsoft .NET Framework 3.5
- ◆ SQL 2008 Developer Edition (CTP) Feb 2008 10.0.1300.13
- ◆ VMWare 6.0.2.59824



## Implementation

The download for SQL2008 Developer is 1.3Gb. The .NET 3.5 Framework is required, which adds a further 25.5Mb to the payload as is the new Windows PowerShell (65Mb) Once the framework and PowerShell is installed you can continue with the installation.

The installation routine has been re-written (again!) to be more detailed and configurable.

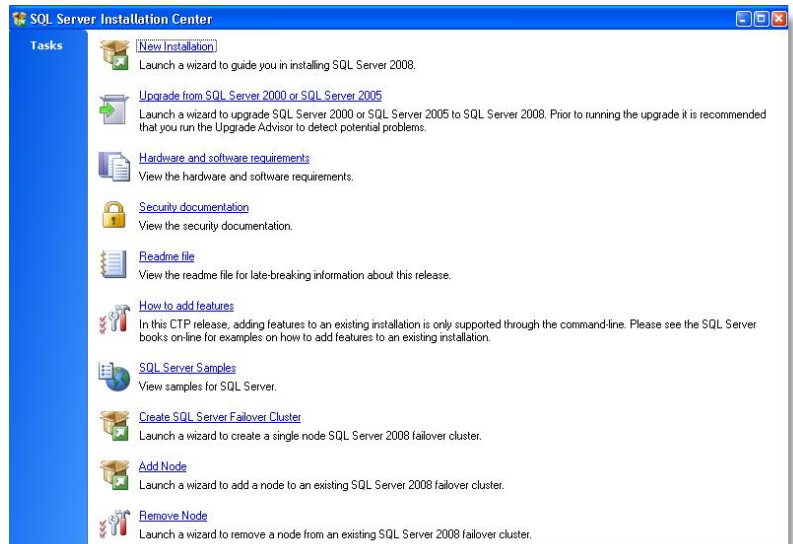
### Step 1

The installation prepares the system and double-checks the current environment:



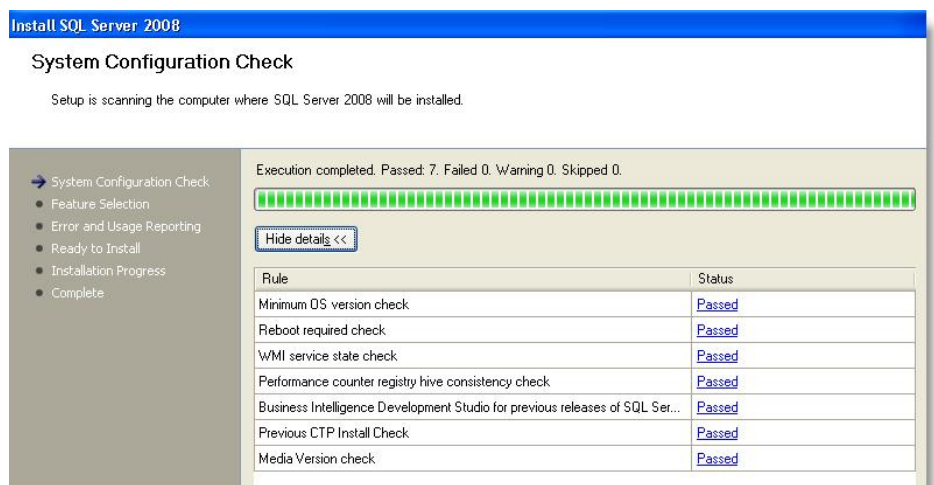
## Step 2

Once the pre-checks are complete the main installation begins. As you can see, the installer has a brand new look and feel, enabling you to choose the role and functions this server will provide.



## Step 3

A full check is made of the installation platform and a report produced.

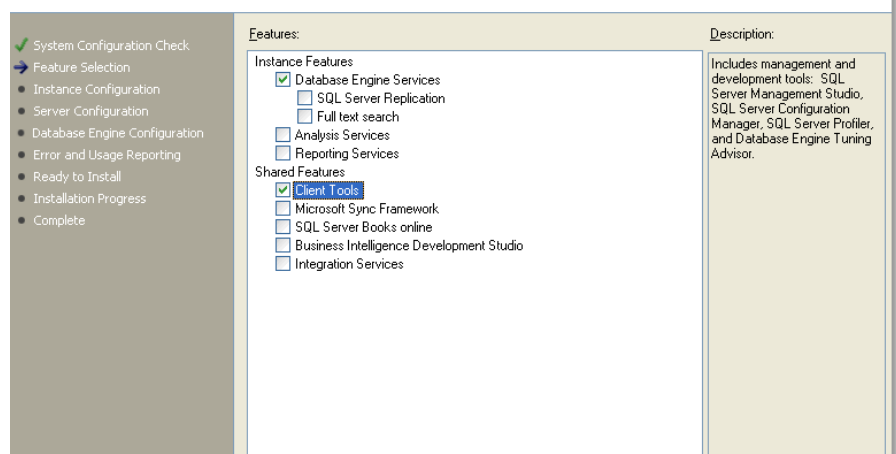


## Step 4

You choose the main options from this panel.

### Feature Selection

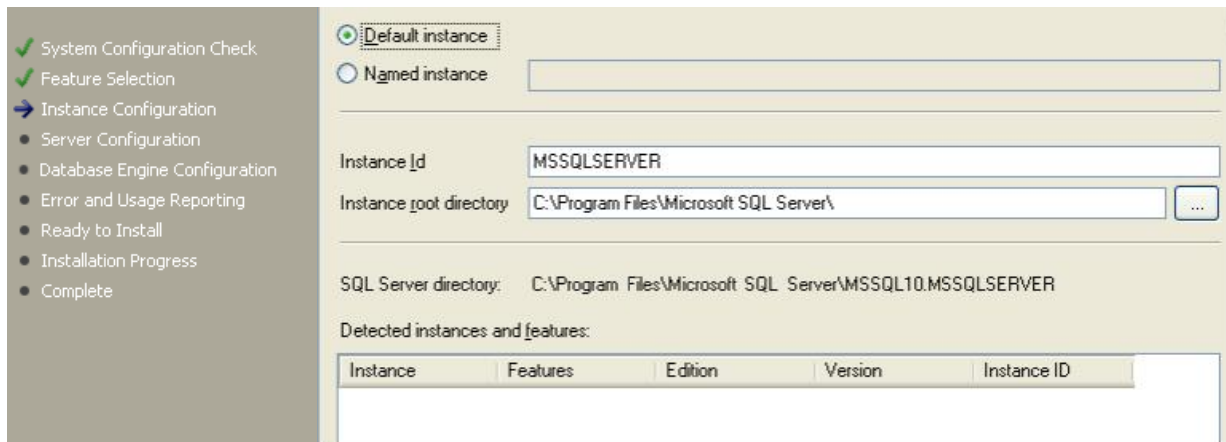
Select the features to install.



### Step 5

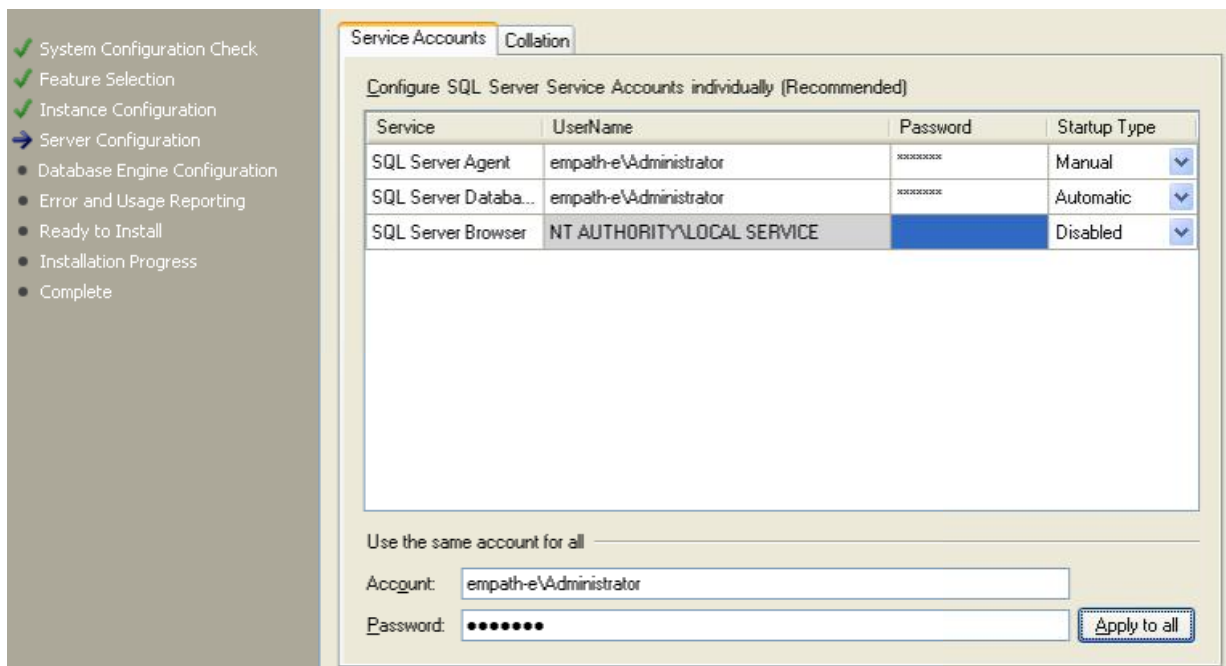
When upgrading from SQL2000/5 or installing a new version you need to select the instance to upgrade or install.

The **Detected Instances** will show the existing SQL Server if running



### Step 6

For each service – choose how the service should login. For this installation we are not concerned about backup processes (Agents) so a system\domain account is fine.



## Step 7

As SalesLogix uses one login (sysdba) we must use "Mixed" mode. New to this release, you can also specify where data/log files should reside by default.

### Database Engine Configuration

Specify the security mode, administrators, and data folder the Database Engine.

The screenshot shows the 'Database Engine Configuration' wizard with the 'Security Mode' tab selected. On the left, a progress list shows 'Database Engine Configuration' as the current step. The main area contains the following fields and options:

- Security Mode:** Radio buttons for 'Windows authentication mode' (unselected) and 'Mixed Mode (SQL Server authentication and Windows authentication)' (selected).
- Built-in SQL Server system administrator account:** Two password fields labeled 'Enter password:' and 'Confirm password:', both containing masked characters.
- Specify SQL Server administrators:** A list box containing 'EMPATH-E-SVR\Administrator' with an 'Add Current User' button above it. Below the list are 'Add...' and 'Remove' buttons.
- Warning box:** A text box on the right stating 'SQL Server administrators have unrestricted access to the Database Engine.'

The screenshot shows the 'Database Engine Configuration' wizard with the 'Data Directories' tab selected. It lists several directories with their corresponding paths and browse buttons:

Directory	Path	Action
Data root Directory:	C:\Program Files\Microsoft SQL Server\	...
System database directory:	C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\MSSQL\Data	
User database directory:	C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\	...
User database log directory:	C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\	...
Temp DB directory:	C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\	...
Temp DB log directory:	C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\	...
Backup directory:	C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\	...



## Step 8

All options are now set and the install can commence.

### Ready to Install

Verify the components to be installed.

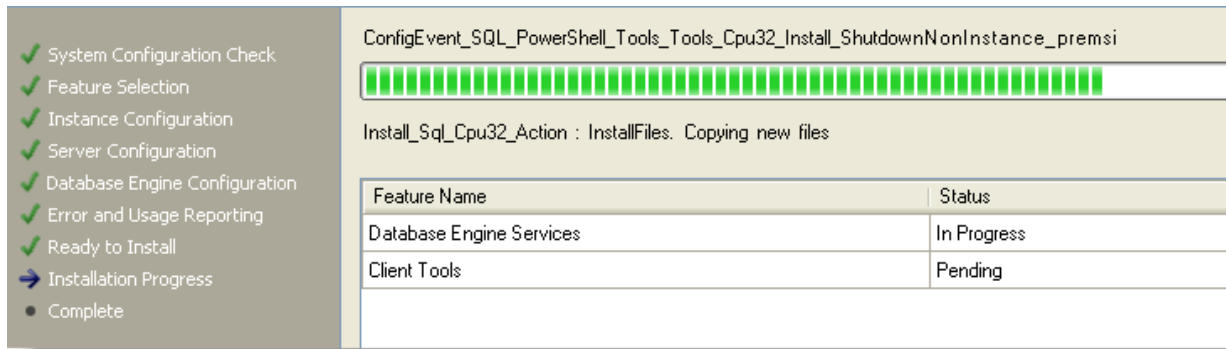
**Ready to install SQL Server:**

- Summary
  - Action: Install
  - General Configuration
    - Features
      - SQLENGINE
      - TOOLSCLIENT
    - Instance configuration
      - Instance Name: MSSQLSERVER
      - Instance ID Suffix: undefined
    - Instance IDs
      - SQL Database Engine: MSSQL10.MSSQLSERVER
      - Instance Directory: C:\Program Files\Microsoft SQL Server\
    - Shared component root directory
      - Shared component directory: C:\Program Files\Microsoft SQL Server\
      - Shared component (WOW) directory: C:\Program Files\Microsoft SQL Server\
    - Error and Usage Reporting
      - Usage Reporting: True
      - Error Reporting: True
  - Instance configuration
    - Agent
      - Service Configuration
        - Account: Administrator
        - Startup Type: Manual
    - Database Engine
      - Service Configuration
        - Account: Administrator
        - Startup Type: Automatic
      - Directory
        - System database directory: C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\MSSQL\data
        - User database directory: C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\MSSQL\data
        - User database log directory: C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\MSSQL\data
        - TempDB directory: C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\MSSQL\data
        - TempDB log directory: C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\MSSQL\data
        - Backup directory: C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\MSSQL\Backup
        - Collation: SQL\_Latin1\_General\_CP1\_CI\_AS
        - Security Mode: SQL
      - Administrators:
        - EMPATH-E-SVR\Administrator



## Step 9

The install is less informative than usual with just a process & action screen shown during the install. The install takes around 20-30 minutes to complete.



The screenshot shows the SQL Server installation progress screen. On the left, a list of steps is shown with green checkmarks for completed steps and a blue arrow for the current step, 'Installation Progress'. The steps are: System Configuration Check, Feature Selection, Instance Configuration, Server Configuration, Database Engine Configuration, Error and Usage Reporting, Ready to Install, Installation Progress, and Complete. The main area shows the current step: 'ConfigEvent\_SQL\_PowerShell\_Tools\_Tools\_Cpu32\_Install\_ShutdownNonInstance\_premisi'. Below this is a progress bar with green segments. The text 'Install\_Sql\_Cpu32\_Action : InstallFiles. Copying new files' is displayed. At the bottom, a table shows the status of features:

Feature Name	Status
Database Engine Services	In Progress
Client Tools	Pending

As before, everything is loaded in:

C:\Program Files\Microsoft SQL Server\

With instances residing in:

C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\MSSQL\DATA

## SQL Server 2005 Surface Area Configuration

This utility has now been deprecated.

## Sample Databases

As with SQL2005 – the sample databases such as Pubs and Northwind must be downloaded separately.



# WHAT'S NEW?

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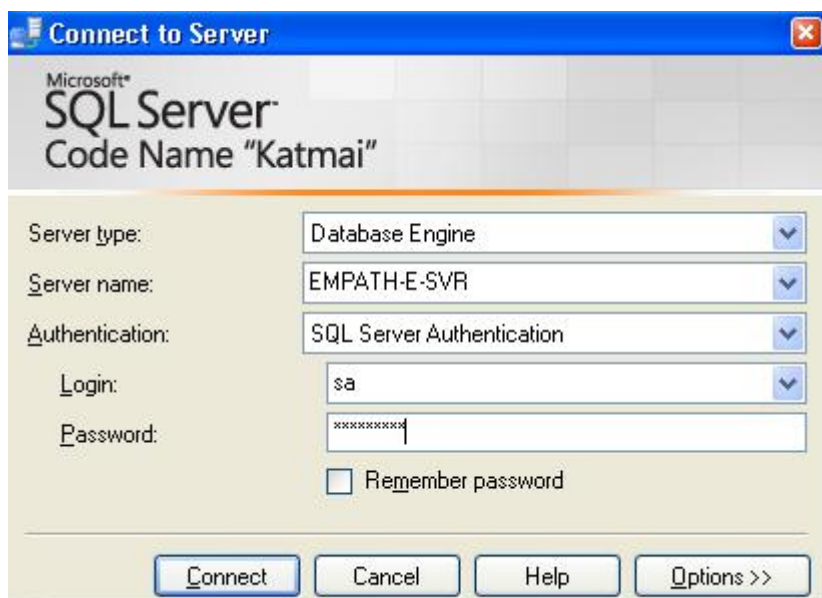
## Command Line Tools

C:\Program Files\Microsoft SQL Server\100\Tools\bin

Reveals that there is a new command processor – sqlcmd.exe (as opposed to sqlcmd90 for the old 2005 version) as well as the old version “osql” updated.

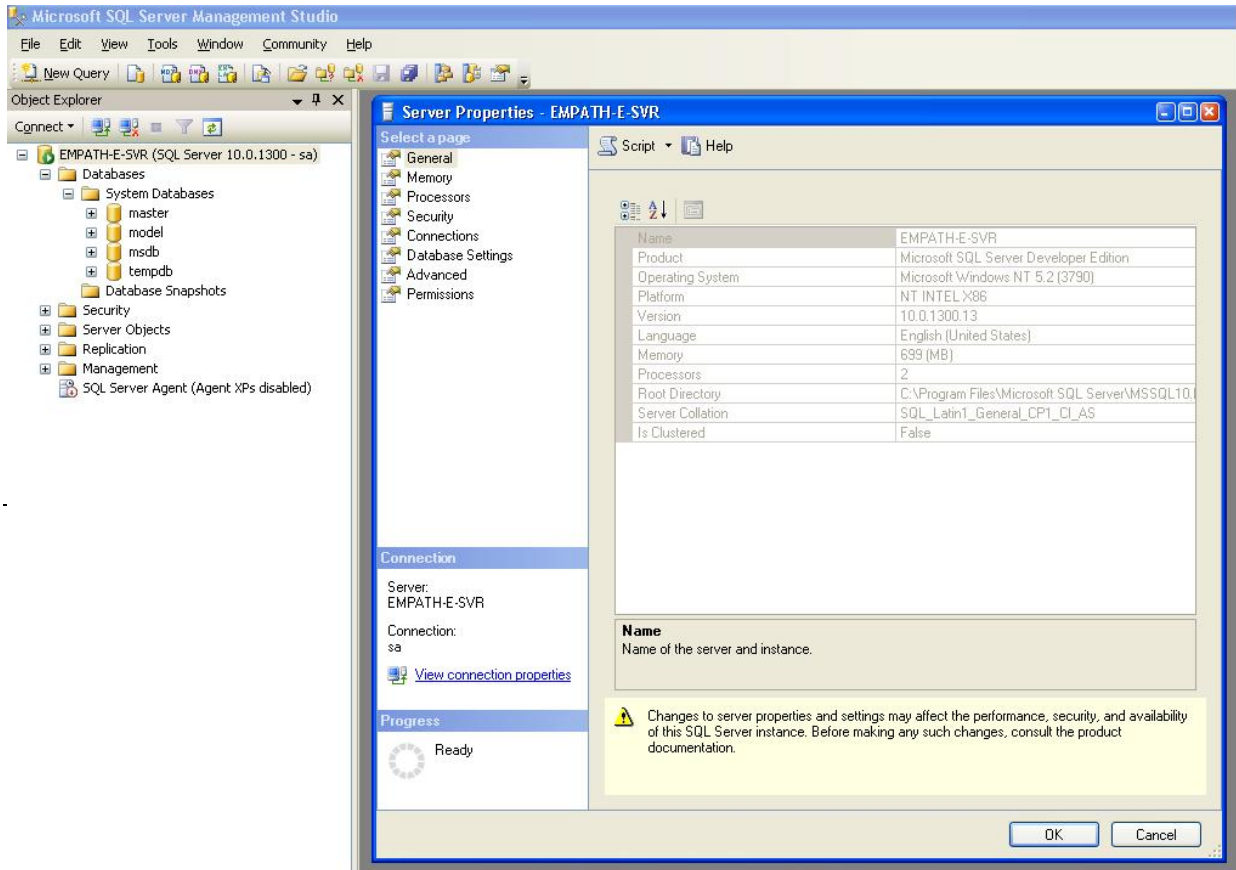
## Graphical UI

The SQL Server Management Studio is similar to the SQL2005 version, although it does “feel” faster to start than the prior version (which is a blessing !)



# Server Properties

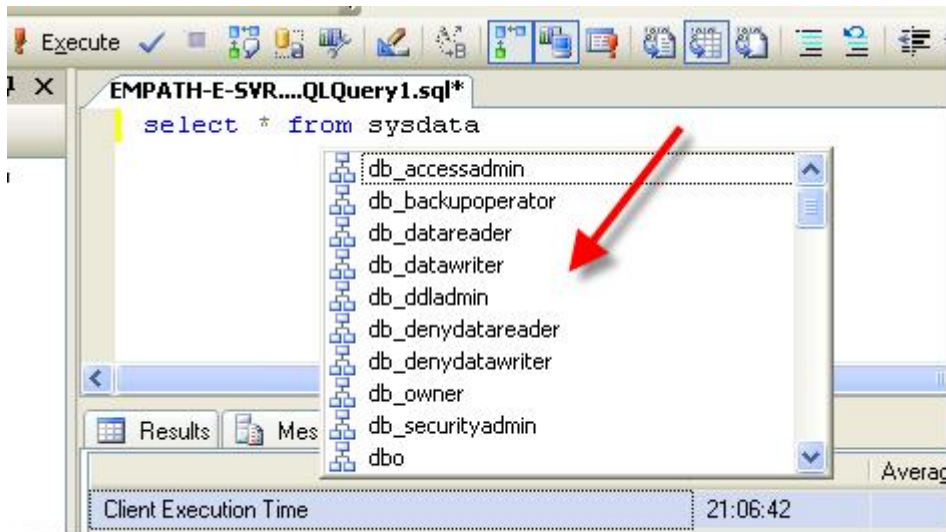
As part of the VS revamp – most windows have now been overhauled to fit into the new standard, with visual styles such as animated gifs to let you know when things are happening (as opposed the SQL2000 – which took as long as it took and you never knew whether it was working or not!)





# IntelliSense

Has now been added to the Query Analyser, which is a **real** time-saving boon to save diving into the help file!



Query Analyser still has the excellent Actual Query Plan and Client Statistics to assist with debugging those long running queries!

The screenshot shows the 'Client Statistics' tab in the Query Analyzer. The query is 'select \* from sys.servers'. The table below provides a detailed breakdown of performance metrics across six trials and an average.

	Trial 6	Trial 5	Trial 4	Trial 3	Trial 2	Trial 1	Average
<b>Client Execution Time</b>	21:11:37	21:11:15	21:11:14	21:10:54	21:10:24	21:06:42	
<b>Query Profile Statistics</b>							
Number of INSERT, DELETE and UPDATE statements	0	→ 0	→ 0	→ 0	→ 0	→ 0	→ 0.0000
Rows affected by INSERT, DELETE, or UPDATE statem...	0	→ 0	→ 0	→ 0	→ 0	→ 0	→ 0.0000
Number of SELECT statements	2	↑ 1	↓ 2	↑ 0	↓ 3	↑ 1	→ 1.5000
Rows returned by SELECT statements	2	↑ 1	↓ 2	↑ 0	↓ 19	↑ 1	→ 4.1667
Number of transactions	0	→ 0	→ 0	→ 0	→ 0	→ 0	→ 0.0000
<b>Network Statistics</b>							
Number of server roundtrips	3	→ 3	→ 3	→ 3	↓ 9	↑ 3	→ 4.0000
TDS packets sent from client	3	→ 3	→ 3	→ 3	↓ 9	↑ 3	→ 4.0000
TDS packets received from server	24	↑ 23	↓ 24	↑ 3	↓ 43	↑ 3	→ 20.0000
Bytes sent from client	224	↑ 216	↓ 224	↑ 218	↓ 780	↑ 208	→ 311.6667
Bytes received from server	88324	↑ 85548	↓ 88324	↑ 164	↓ 142288	↑ 516	→ 67527.340
<b>Time Statistics</b>							
Client processing time	62	↑ 0	↓ 31	↓ 93	↑ 47	↑ 31	→ 44.0000
Total execution time	62	↑ 0	↓ 46	↓ 93	↓ 156	↑ 31	→ 64.6667
Wait time on server replies	0	→ 0	↓ 15	↑ 0	↓ 109	↑ 0	→ 20.6667



# SALESLOGIX SPECIFIC

## Installation Issues:

The first thing to notice is that during an install of SalesLogix 7.2 – the installer cannot install the evaluation databases as it is testing for a specific version (and even mentions higher, which of course it is).

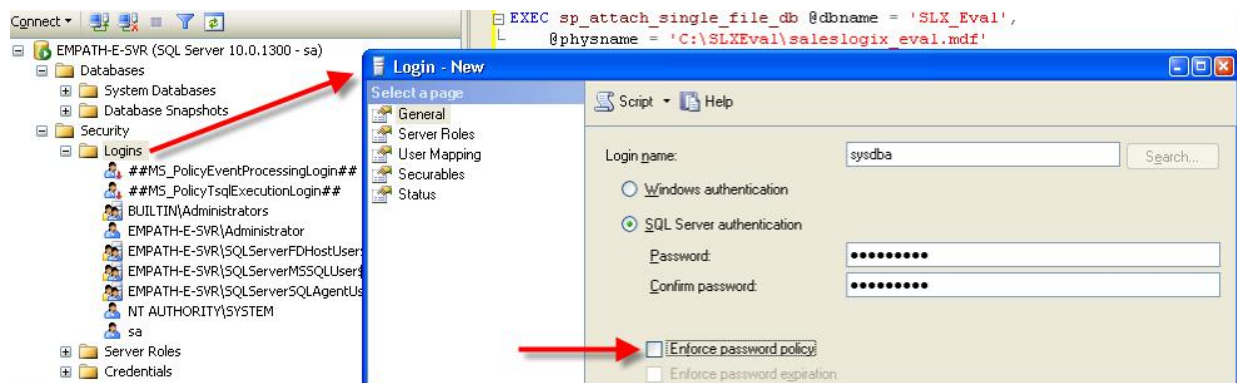
**The SalesLogix databases cannot be installed at this time. Please correct the problem or modify your feature selection:**

MS SQLServer 2000 or higher not found on this machine.

You can get past this by installing them later, manually by following the procedure below.

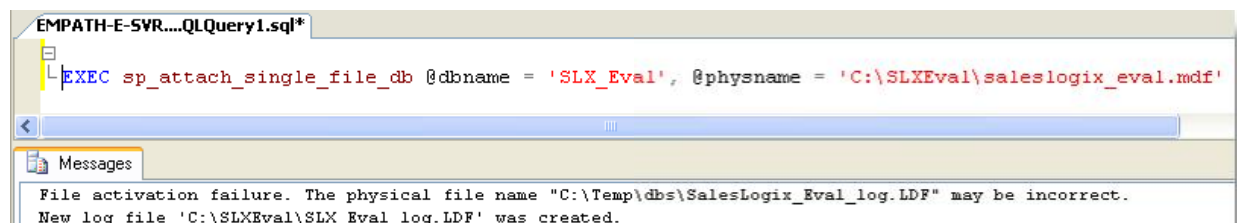
## Create the SYDBA user

Using the SQL Server Management studio – create the SYSDBA user login. Ensure you deselect the option to enforce security.



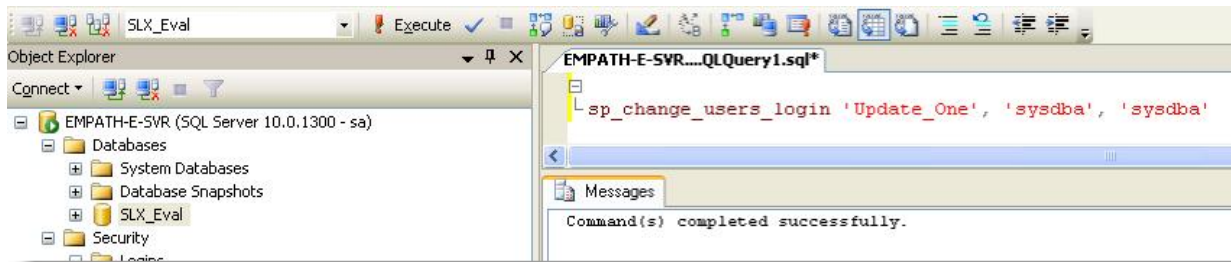
## Attach the database

You will need to attach the database by copying it from the install DVD into a folder of your choice and then running this script. This will attach the database and upgrade it.



## Re-Link the SYSDBA user

Once the database is attached, you will need to re-link the SYSDBA to the SYSDBA user created earlier. Switch to the SLX\_Eval database and run this script:



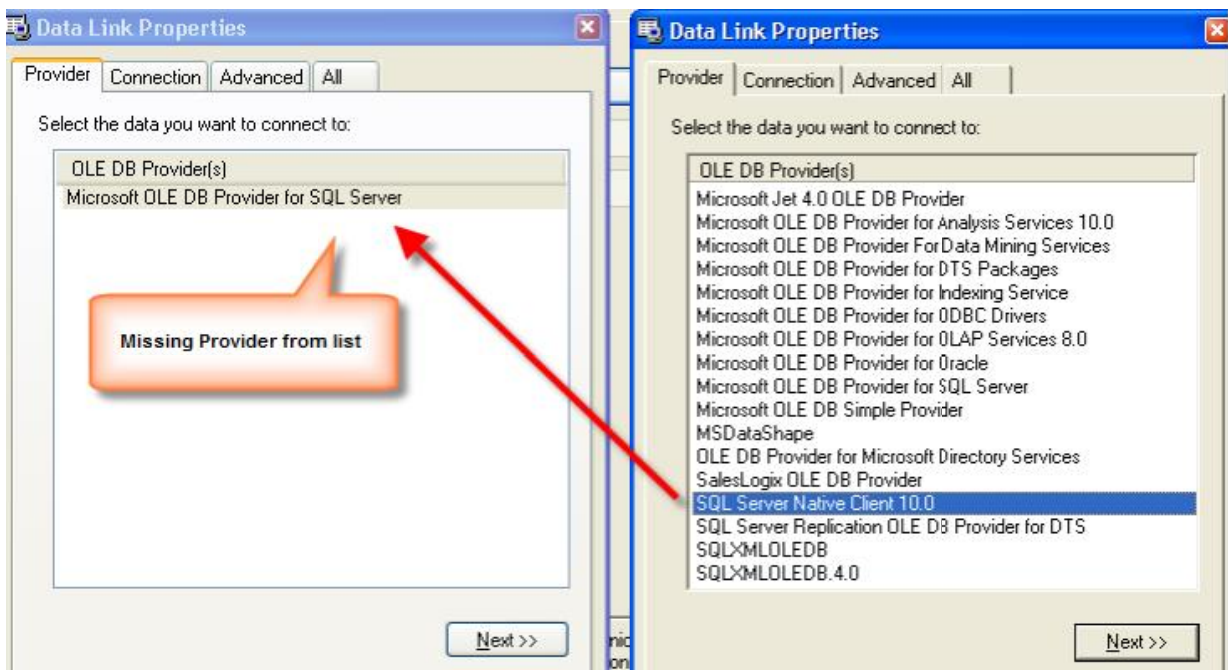
## Changing the Database Format

The database for SalesLogix upgrades to the SQL 2000 version – using Database Properties we should alter this to the new format in the Compatibility Mode setting:



## Connection Manager & Connecting to SQL Server

Unfortunately, the Connection Manager is hard-coded to look for the Microsoft OLE DB Provider for SQL Server and the Native Client – but in this release the provider has been renamed – hence, it does not appear in the list. This means that any advantages of using the new native provider will be lost. Of course, it also means that the system continues to work as expected.



## Connecting via Admin & Client

Whilst it is possible to connect and operate the Admin and SalesLogix clients they suffer speed issues ("sluggish to perform") due to the use of the old SQL OLE DB provider.

## Conclusions

Obviously, there are some changes required from Sage in order to support the installation fully (the installation routine, the Native Client etc.) the system did seem to work fine with no other noticeable issues.

The SQL Server Studio itself now seems also to be fixed – start-up is considerably quicker than the prior version and the addition of Intellisense to the Query Analyser and other places will make this a joy to use now!

