select \* from [10.0.1.57\CDR].Votingdb.dbo.PresidentialTB

EXEC sp\_addlinkedserver @server='Servername'

EXEC sp\_addlinkedsrvlogin 'Servername', 'false', NULL, 'username', 'password@123'

This can be done in SQL Management Studio in a few easy steps:

* First of all, you need to connect to Server B.
* Once connected, you need to link Server A to Server B. In SQL Mngmt Studio 2005, this can be done by right-clicking Linked Servers under the Server Objects field and adding the new linked server.
* Then you need to run a query similar to the one below.

1. INSERT INTO ServerB.DatabaseName.dbo.Employee
2. (SELECT \* FROM ServerA.DatabaseName.dbo.Employee)

Where ServerA is the server name of Server A, similar for ServerB and DatabaseName is the name of the databases on each server. I should also point out that if the Employee table has an auto increment field and you want to preserve the order of this field, you need to set auto increment off for the ServerB Employee table before you run the insert and reset it to on when you have finished. Let us know if you need to do this and we'll show you how.

**sp\_addlinkedserver**

**SQL Server 2000**

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Creates a linked server, which allows access to distributed, heterogeneous queries against OLE DB data sources. After creating a linked server with **sp\_addlinkedserver**, this server can then execute distributed queries. If the linked server is defined as Microsoft® SQL Server™, remote stored procedures can be executed.

**Syntax**

**sp\_addlinkedserver** [ **@server** **=** ] **'***server***'**[ **,** [ **@srvproduct** **=** ] **'***product\_name***'** ]   
    [ **,** [ **@provider** **=** ] **'***provider\_name***'** ]   
    [ **,** [ **@datasrc** **=** ] **'***data\_source***'** ]   
    [ **,** [ **@location** **=** ] **'***location***'** ]   
    [ **,** [ **@provstr** **=** ] **'***provider\_string***'** ]   
    [ **,** [ **@catalog** **=** ] **'***catalog***'** ]

**Arguments**

[ **@server =** ] **'***server***'**

Is the local name of the linked server to create. *server* is **sysname**, with no default.

With multiple instances of SQL Server, *server* may be *servername\instancename*. The linked server then may be referenced as the data source for

SELECT \* FROM [servername\instancename].pubs.dbo.authors

If *data\_source* is not specified, server is the actual name of the instance.

[ **@srvproduct =** ] **'***product\_name***'**

Is the product name of the OLE DB data source to add as a linked server. *product\_name* is **nvarchar(128)**, with a default of NULL. If **SQL Server**, *provider\_name*, *data\_source*, *location*, *provider\_string*, and *catalog* do not need to be specified.

[ **@provider =** ] **'***provider\_name***'**

Is the unique programmatic identifier (PROGID) of the OLE DB provider corresponding to this data source. *provider\_name* must be unique for the specified OLE DB provider installed on the current computer. *provider\_name* is **nvarchar(128)**, with a default of NULL. The OLE DB provider is expected to be registered with the given PROGID in the registry.

[ **@datasrc =** ] **'***data\_source***'**

Is the name of the data source as interpreted by the OLE DB provider. *data\_source* is **nvarchar(4000)**, with a default of NULL. *data\_source* is passed as the DBPROP\_INIT\_DATASOURCE property to initialize the OLE DB provider.

When the linked server is created against the SQL Server OLE DB provider, *data\_source* can be specified in the form of *servername*\*instancename*, which can be used to connect to a specific instance of SQL Server running on the specified computer. *servername* is the name of the computer on which SQL Server is running, and *instancename* is the name of the specific SQL Server instance to which the user will be connected.

[ **@location =** ] **'***location***'**

Is the location of the database as interpreted by the OLE DB provider. *location* is **nvarchar(4000)**, with a default of NULL. *location* is passed as the DBPROP\_INIT\_LOCATION property to initialize the OLE DB provider.

[ **@provstr =** ] **'***provider\_string***'**

Is the OLE DB provider-specific connection string that identifies a unique data source. *provider\_string* is **nvarchar(4000)**, with a default of NULL. *provstr* is passed as the DBPROP\_INIT\_PROVIDERSTRING property to initialize the OLE DB provider.

When the linked server is created against the SQL Server OLE DB provider, the instance can be specified using the SERVER keyword as SERVER=*servername*\*instancename* to specify a specific instance of SQL Server. *servername* is the name of the computer on which SQL Server is running, and *instancename* is the name of the specific SQL Server instance to which the user will be connected.

[ **@catalog =** ] **'***catalog***'**

Is the catalog to be used when making a connection to the OLE DB provider. *catalog* is **sysname**, with a default of NULL. *catalog* is passed as the DBPROP\_INIT\_CATALOG property to initialize the OLE DB provider.

**Return Code Values**

0 (success) or 1 (failure)

**Result Sets**

**sp\_addlinkedserver** returns this message if no parameters are specified:

Procedure 'sp\_addlinkedserver' expects parameter '@server', which was not supplied.

**sp\_addlinkedserver** used with the appropriate OLE DB provider and parameters returns this message:

Server added.

**Remarks**

The following table shows the ways that a linked server can be set up for data sources accessible through OLE DB. A linked server can be set up using more than one way for a given data source; there may be more than one row for a data source type. This table also shows the **sp\_addlinkedserver** parameter values to be used for setting up the linked server.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Remote OLE DB data source** | **OLE DB provider** | **product\_name** | **provider\_name** | **data\_source** | **location** | **provider\_string** | **catalog** |
| SQL Server | Microsoft OLE DB Provider for SQL Server | SQL Server (1)  (default) | - | - | - | - | - |
| SQL Server | Microsoft OLE DB Provider for SQL Server | SQL Server | **SQLOLEDB** | Network name of SQL Server (for default instance) | - | - | Database name (optional) |
| SQL Server | Microsoft OLE DB Provider for SQL Server | - | **SQLOLEDB** | Servername\instancename (for specific instance) | - | - | Database name (optional) |
| Oracle | Microsoft OLE DB Provider for Oracle | Any (2) | **MSDAORA** | SQL\*Net alias for Oracle database | - | - | - |
| Access/Jet | Microsoft OLE DB Provider for Jet | Any | **Microsoft.Jet.OLEDB.4.0** | Full path name of Jet database file | - | - | - |
| ODBC data source | Microsoft OLE DB Provider for ODBC | Any | **MSDASQL** | System DSN of ODBC data source | - | - | - |
| ODBC data source | Microsoft OLE DB Provider for ODBC | Any | **MSDASQL** | - | - | ODBC connection string | - |
| File system | Microsoft OLE DB Provider for Indexing Service | Any | **MSIDXS** | Indexing Service catalog name | - | - | - |
| Microsoft Excel Spreadsheet | Microsoft OLE DB Provider for Jet | Any | **Microsoft.Jet.OLEDB.4.0** | Full path name of Excel file | - | Excel 5.0 | - |
| IBM DB2 Database | Microsoft OLE DB Provider for DB2 | Any | **DB2OLEDB** | - | - | See Microsoft OLE DB Provider for DB2 documentation. | Catalog name of DB2 database |

(1 ) This way of setting up a linked server forces the name of the linked server to be the same as the network name of the remote SQL Server. Use *server* to specify the server.  
(2 ) "Any" indicates that the product name can be anything.

The *data\_source*, *location*, *provider\_string*, and *catalog* parameters identify the database(s) the linked server points to. If any of these parameters are NULL, the corresponding OLE DB initialization property is not set.

**Note**  To use the Microsoft OLE DB Provider for SQL Server 2000 in SQL Server version 6.*x*, run the \Microsoft SQL Server\MSSQL\Install\Instcat.sqlscript against the version 6.*x* SQL Server. This script is essential for running distributed queries against an SQL Server 6.*x* server.

In a clustered environment, when specifying file names to point to OLE DB data sources, use the universal naming convention name (UNC) or a shared drive to specify the location

**Permissions**

Execute permissions default to members of the **sysadmin** and **setupadmin** fixed server roles.

**Examples**

**A. Use the Microsoft OLE DB Provider for SQL Server**

1. Creating a linked server using OLE DB for SQL Server

This example creates a linked server named **SEATTLESales** that uses the Microsoft OLE DB Provider for SQL Server.

USE master

GO

EXEC sp\_addlinkedserver

'SEATTLESales',

N'SQL Server'

GO

1. Creating a linked server on an instance of SQL Server

This example creates a linked server **S1\_instance1** on an instance of SQL Server, using the OLE DB Provider for SQL Server.

EXEC sp\_addlinkedserver @server='S1\_instance1', @srvproduct='',

@provider='SQLOLEDB', @datasrc='S1\instance1'

**B. Use the Microsoft OLE DB Provider for Jet**

This example creates a linked server named **SEATTLE Mktg**.

**Note**  This example assumes that both Microsoft Access and the sample **Northwind** database are installed and that the **Northwind** database resides in C:\Msoffice\Access\Samples.

USE master

GO

-- To use named parameters:

EXEC sp\_addlinkedserver

@server = 'SEATTLE Mktg',

@provider = 'Microsoft.Jet.OLEDB.4.0',

@srvproduct = 'OLE DB Provider for Jet',

@datasrc = 'C:\MSOffice\Access\Samples\Northwind.mdb'

GO

-- OR to use no named parameters:

USE master

GO

EXEC sp\_addlinkedserver

'SEATTLE Mktg',

'OLE DB Provider for Jet',

'Microsoft.Jet.OLEDB.4.0',

'C:\MSOffice\Access\Samples\Northwind.mdb'

GO

**C. Use the Microsoft OLE DB Provider for Oracle**

This example creates a linked server named **LONDON** **Mktg** that uses the Microsoft OLE DB Provider for Oracle and assumes that the SQL\*Net alias for the Oracle database is **MyServer**.

USE master

GO

-- To use named parameters:

EXEC sp\_addlinkedserver

@server = 'LONDON Mktg',

@srvproduct = 'Oracle',

@provider = 'MSDAORA',

@datasrc = 'MyServer'

GO

-- OR to use no named parameters:

USE master

GO

EXEC sp\_addlinkedserver

'LONDON Mktg',

'Oracle',

'MSDAORA',

'MyServer'

GO

**D. Use the Microsoft OLE DB Provider for ODBC with the *data\_source* parameter**

This example creates a linked server named **SEATTLE Payroll** that uses the Microsoft OLE DB Provider for ODBC and the *data\_source* parameter.

**Note**  The specified ODBC data source name must be defined as System DSN in the server before executing **sp\_addlinkedserver**.

USE master

GO

-- To use named parameters:

EXEC sp\_addlinkedserver

@server = 'SEATTLE Payroll',

@srvproduct = '',

@provider = 'MSDASQL',

@datasrc = 'LocalServer'

GO

-- OR to use no named parameters:

USE master

GO

EXEC sp\_addlinkedserver

'SEATTLE Payroll',

'',

'MSDASQL',

'LocalServer'

GO

**E. Use the Microsoft OLE DB Provider for ODBC with the *provider\_string* parameter**

This example creates a linked server named **LONDON Payroll** that uses the Microsoft OLE DB Provider for ODBC and the *provider\_string* parameter.

**Note**  For more information about ODBC connect strings, see [SQLDriverConnect](http://msdn.microsoft.com/en-us/library/aa177865%28v=sql.80%29.aspx) and [How to allocate handles and connect to SQL Server (ODBC)](http://msdn.microsoft.com/en-us/library/aa215439%28v=sql.80%29.aspx).

USE master

GO

-- To use named parameters:

EXEC sp\_addlinkedserver

@server = 'LONDON Payroll',

@srvproduct = '',

@provider = 'MSDASQL',

@provstr = 'DRIVER={SQL Server};SERVER=MyServer;UID=sa;PWD=sapassword;'

GO

-- OR to use no named parameters:

USE master

GO

EXEC sp\_addlinkedserver

'LONDON Payroll',

'',

'MSDASQL',

NULL,

NULL,

'DRIVER={SQL Server};SERVER=MyServer;UID=sa;PWD=sapassword;'

GO

**F. Use the Microsoft OLE DB Provider for Jet on an Excel Spreadsheet**

To create a linked server definition using the Microsoft OLE DB Provider for Jet to access an Excel spreadsheet, first create a named range in Excel specifying the columns and rows of the Excel worksheet to select. The name of the range can then be referenced as a table name in a distributed query.

EXEC sp\_addlinkedserver 'ExcelSource',

'Jet 4.0',

'Microsoft.Jet.OLEDB.4.0',

'c:\MyData\DistExcl.xls',

NULL,

'Excel 5.0'

GO

In order to access data from an Excel spreadsheet, associate a range of cells with a name. A given named range can be accessed by using the name of the range as the table name. The following query can be used to access a named range called **SalesData** using the linked server set up as above.

SELECT \*

FROM ExcelSource...SalesData

GO

**G. Use the Microsoft OLE DB Provider for Indexing Service**

This example creates a linked server and uses OPENQUERY to retrieve information from both the linked server and the file system enabled for Indexing Service.

EXEC sp\_addlinkedserver FileSystem,

'Index Server',

'MSIDXS',

'Web'

GO

USE pubs

GO

IF EXISTS(SELECT TABLE\_NAME FROM INFORMATION\_SCHEMA.TABLES

WHERE TABLE\_NAME = 'yEmployees')

DROP TABLE yEmployees

GO

CREATE TABLE yEmployees

(

id int NOT NULL,

lname varchar(30) NOT NULL,

fname varchar(30) NOT NULL,

salary money,

hiredate datetime

)

GO

INSERT yEmployees VALUES

(

10,

'Fuller',

'Andrew',

$60000,

'9/12/98'

)

GO

IF EXISTS(SELECT TABLE\_NAME FROM INFORMATION\_SCHEMA.VIEWS

WHERE TABLE\_NAME = 'DistribFiles')

DROP VIEW DistribFiles

GO

CREATE VIEW DistribFiles

AS

SELECT \*

FROM OPENQUERY(FileSystem,

'SELECT Directory,

FileName,

DocAuthor,

Size,

Create,

Write

FROM SCOPE('' "c:\My Documents" '')

WHERE CONTAINS(''Distributed'') > 0

AND FileName LIKE ''%.doc%'' ')

WHERE DATEPART(yy, Write) = 1998

GO

SELECT \*

FROM DistribFiles

GO

SELECT Directory,

FileName,

DocAuthor,

hiredate

FROM DistribFiles D, yEmployees E

WHERE D.DocAuthor = E.FName + ' ' + E.LName

GO

**H. Use the Microsoft OLE DB Provider for Jet to access a text file**

This example creates a linked server for directly accessing text files, without linking the files as tables in an Access .mdb file. The provider is Microsoft.Jet.OLEDB.4.0 and the provider string is 'Text'.

The data source is the full pathname of the directory that contains the text files. A schema.ini file, which describes the structure of the text files, must exist in the same directory as the text files. For more information about creating a schema.ini file, refer to Jet Database Engine documentation.

--Create a linked server

EXEC sp\_addlinkedserver txtsrv, 'Jet 4.0',

'Microsoft.Jet.OLEDB.4.0',

'c:\data\distqry',

NULL,

'Text'

GO

--Set up login mappings

EXEC sp\_addlinkedsrvlogin txtsrv, FALSE, Admin, NULL

GO

--List the tables in the linked server

EXEC sp\_tables\_ex txtsrv

GO

--Query one of the tables: file1#txt

--using a 4-part name

SELECT \*

FROM txtsrv...[file1#txt]

**I. Use the Microsoft OLE DB Provider for DB2**

This example creates a linked server named DB2 that uses the Microsoft OLE DB Provider for DB2.

EXEC sp\_addlinkedserver

@server='DB2',

@srvproduct='Microsoft OLE DB Provider for DB2',

@catalog='DB2',

@provider='DB2OLEDB',

@provstr='Initial Catalog=PUBS;Data Source=DB2;HostCCSID=1252;Network Address=XYZ;Network Port=50000;Package Collection=admin;Default Schema=admin;'