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Procedure: SQL Server – Setting Up an Oracle Linked Server
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SQL SERVER – SETTING UP AN ORACLE LINKED SERVER

SQL Server Linked Servers feature lets you access **Oracle** data and data from other **OLE DB/ODBC** compatible data sources from **SQL Server**. Here are the basic steps for setting up an **Oracle** linked server.

1. Install and Configure the Oracle Client Software

Oracle client software provides the network libraries required to establish connectivity to an Oracle database system.Download the software from http://www.oracle.com/technology/software/products/database/oracle10g/index.html.

Install the software on your **SQL Server** system and configure it by using **Oracle Net Configuration Assistant**.

2. Create the Linked Server

Create a linked server by using the **T-SQL** command:

```
EXEC sp_addlinkedserver
   'OracleLinkedServer', 'Oracle',
   'MSDAORA', 'OracleServer'
```

The name of the linked server is **Oracle-LinkedServer**.The second parameter, product name (**Oracle**),is optional.The third parameter specifies the **OLE DB** provider. **MSDAORA** is the name of the *Microsoft OLE DB Provider for Oracle*.

The final required parameter is the data source name, **Oracle Server**.

3. Add Logins for the Linked Server

Next, provide the SQL Server system with an Oracle login to access the **Oracle** database by using the *sp_addlinkedsrvlogin* command:

```
EXEC sp_addlinkedsrvlogin '
   OracleLinkedServer ', false,
   'SQLuser', 'OracleUser',
   'OraclePwd'
```

The first parameter, **Oracle Linked Server**, specifies the name of the linked server system that you created.The second parameter determines the name of the login to be used on the remote system. A value of **True** indicates that the current **SQL Server** login will be used to connect to the linked server.

This requires that the logins on the two database servers match, which is typically not the case. A value of **False** means you'll supply the remote login.

The third parameter specifiesthe name of a **SQL Server** login that this remote login will map to. A value of **NULL** indicates that this remote login will be used for all connections to the linked Oracle server.

If the **Oracle** system uses Windows authentication, you can use the keyword *domain* to specify a **Windows** login.

The fourth and fifth parameters supply login and password values for the **Oracle** system.

4. Query the Linked Server

To test the connection, run a sample query using the linked server name. Linked servers support updates as well as queries. To access the tables on a linked server, use a four-part naming syntax: *linked_server_name.catalog_ name.schema_name.table_name.*

For example, to query the sample **Oracle Scott** database, you'd enter the statement:

```
SELECT * FROM
   OracleLinkedServer..SCOTT.EMP
```

5. List the Linked Servers

To list your linked servers and show the **OLE DB** provider that they employ, use the **sp_linkedserver** stored procedure.