

Linking to SACWIS Databases from SQL Server

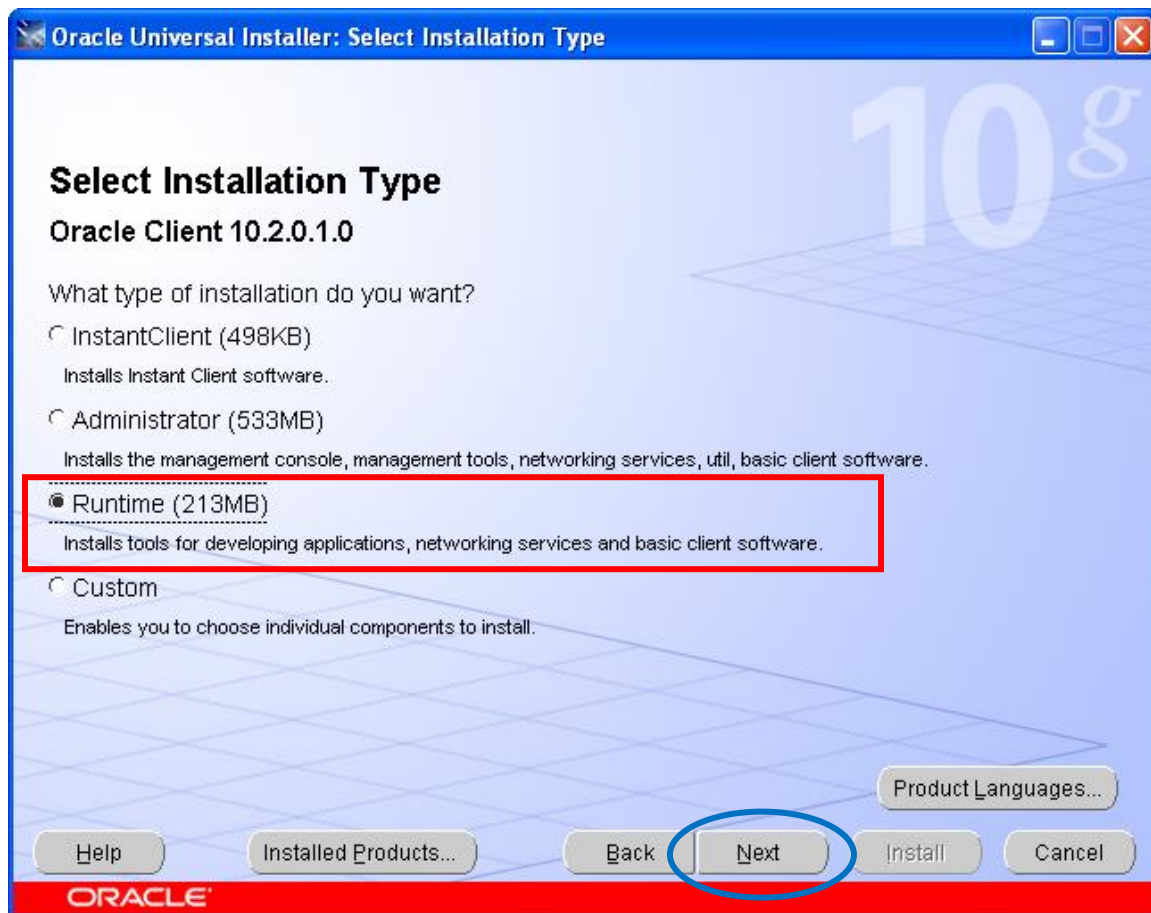
Overview

This article describes how to install an **Oracle Client** on your SQL Server machine, and link to **SACWIS database** instances to create report queries in SQL Server.

Installing the Oracle Client

Important: Please use at least **Oracle 10.2.0.1.0 Client** on your SQL Server machine. Since the linked server relies on Oracle OLEDB features, choose the “**Runtime**” installation as described below. The “InstantClient” installation might work, but we have not done a thorough comparison of Instant Client and the full client to verify that in this case.

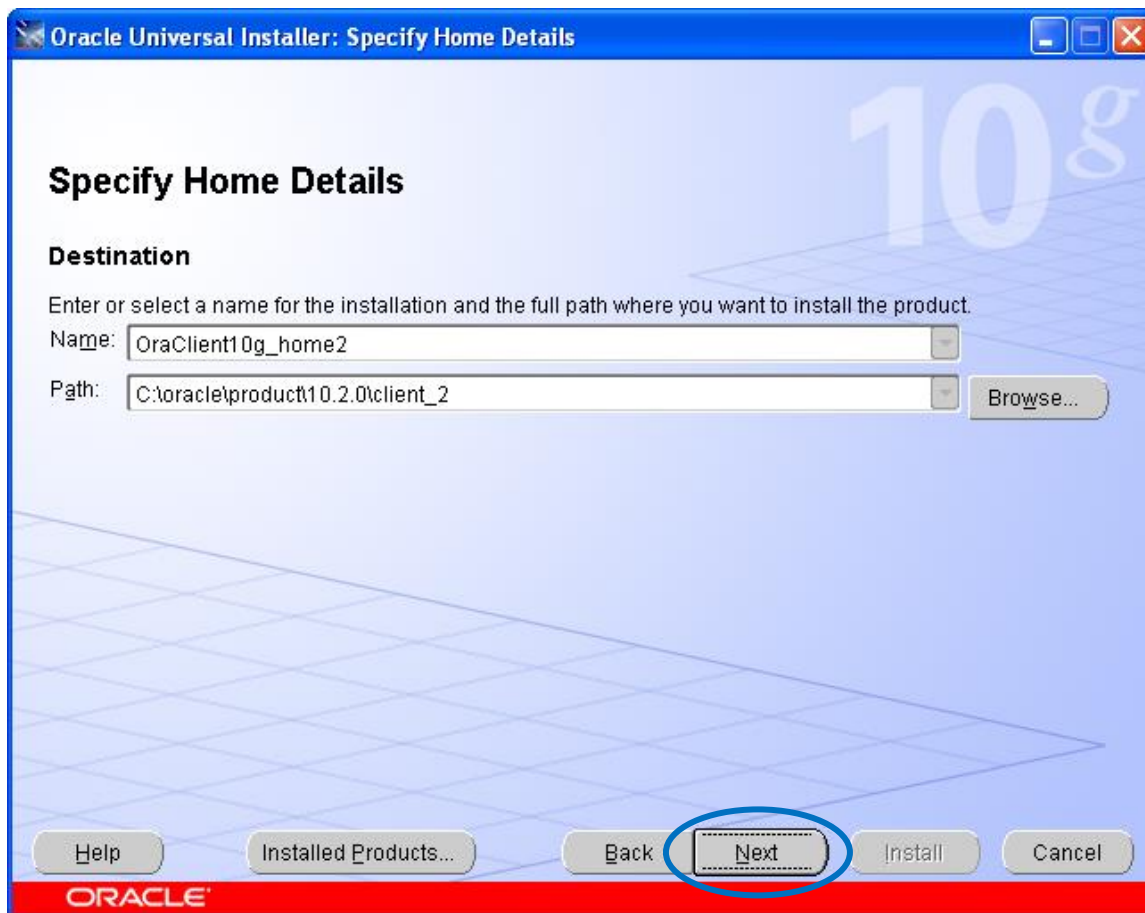
1. Start installing the Oracle client software. On the **Select Installation Type** screen, select the **Runtime (213MB)** option as shown below.
2. Click the **Next** button.



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On the **Specify Home Details** screen, Oracle will automatically fill in the information as shown below.

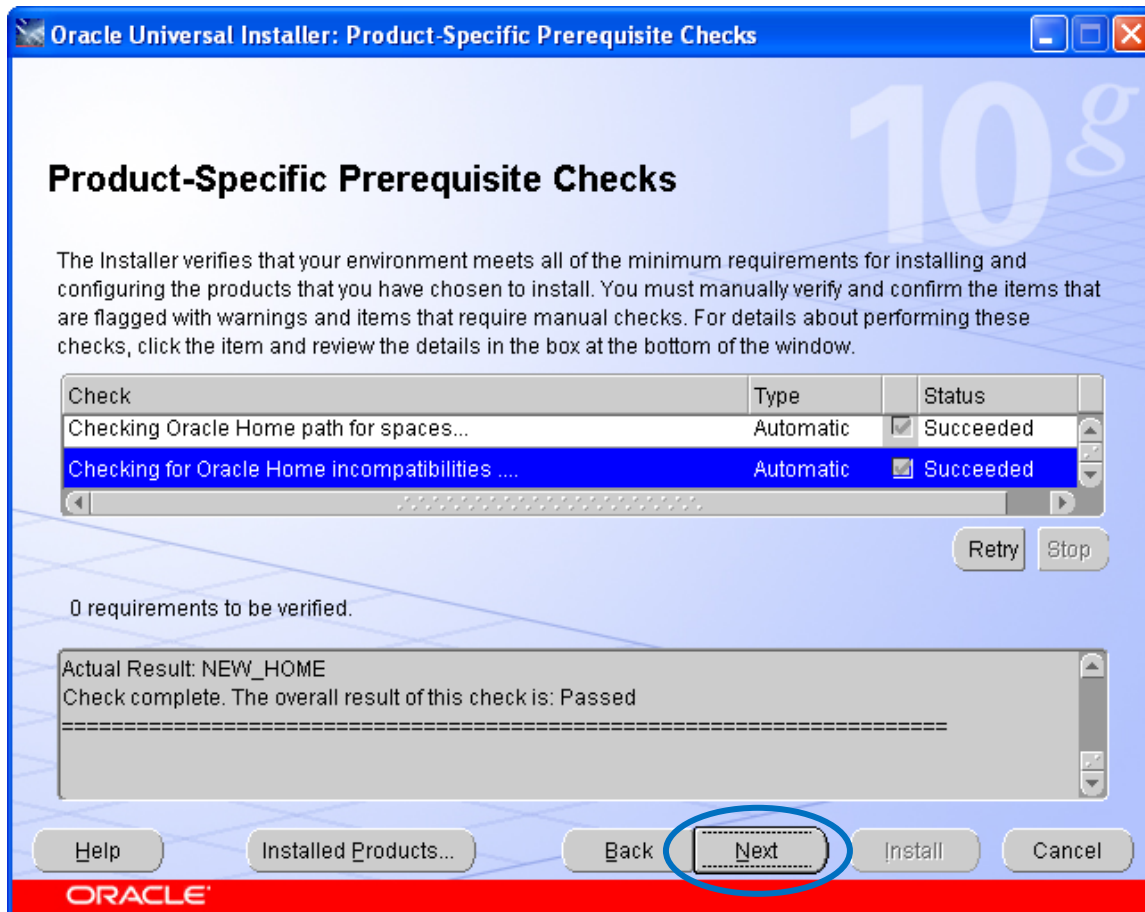
Note: Your installation directories may be different. The defaults should be sufficient.



3. Click the **Next** button.

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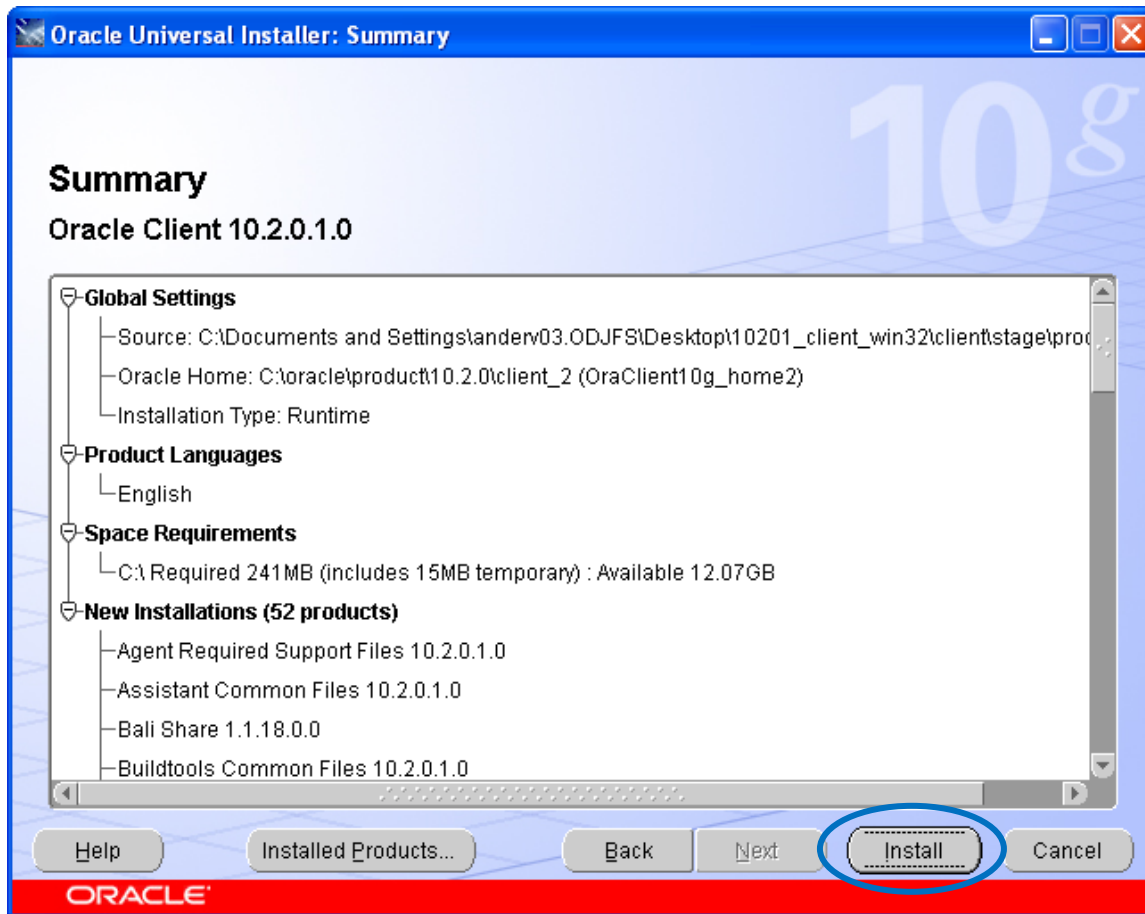
The **Product-Specific Prerequisite Checks** screen appears displaying verification of environment requirements.



4. Click the **Next** button.

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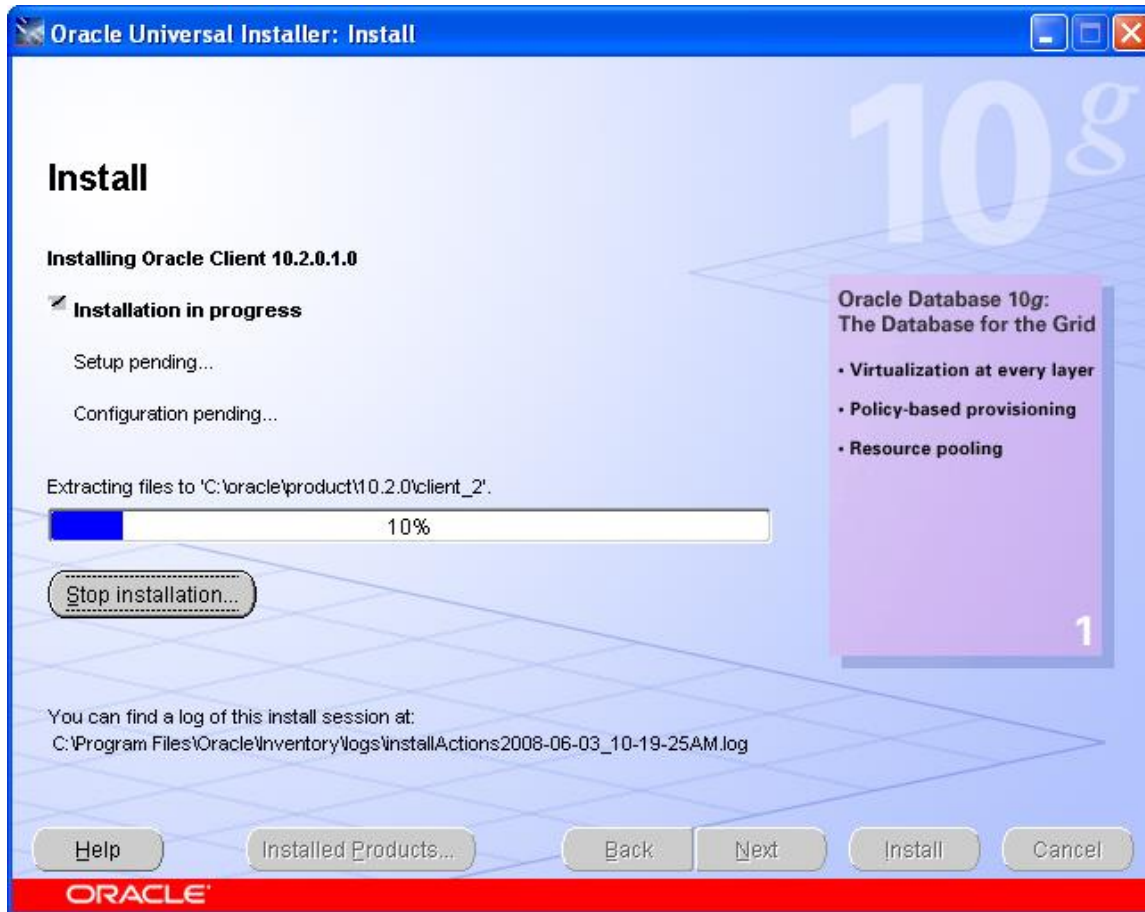
The **Summary** screen appears displaying a summary of what will happen during the installation.



5. Click the **Install** button to start and complete the installation process.

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The **Install** screen appears displaying the progress of the installation.



6. Upon completion of the Oracle client installation, add entries to the **TNSNAMES.ORA file** as documented in the "SACWIS Ad-Hoc Connectivity Summary.pdf" document.

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Linking to SACWIS Database Instances

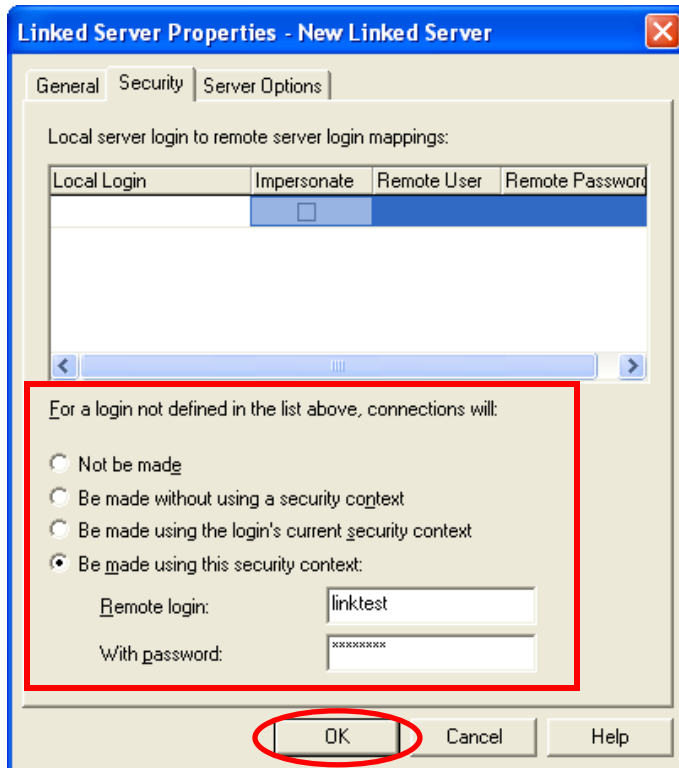
The following example shows how to configure for ADHOC_SACRPT. Substitute the appropriate name of your connect string in the example below.

1. Open **Enterprise Manager**.
2. Go to **Security**.
3. Right-click on **Linked Server**.
4. Select **Create New Linked Server** by filling in the information as shown below.

The screenshot shows the 'Linked Server Properties - New Linked Server' dialog box. The 'General' tab is selected. The 'Linked server' field is filled with 'ADHOC_SACRPT'. Under 'Server type', the 'Other data source' radio button is selected. The 'Provider name' dropdown is set to 'Microsoft OLE DB Provider for Oracle'. The 'Product name' field contains 'Oracle'. The 'Data source' field contains 'ADHOC_SACRPT'. The 'Provider string', 'Location', and 'Catalog' fields are empty. A text box at the bottom contains the text 'This is the entire provider string.' The 'OK', 'Cancel', and 'Help' buttons are at the bottom.

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5. Click the **Security** tab.



For a **Quick Test**:

6. Select the radio button beside the last option, **Be made using this security context**.
7. In the **Remote login** field, enter your login (NOT "linktest").
8. In the **With password** field, enter your password.
9. Click the **OK** button.

Your connection has been completed. You can now query in SQL Server.

Important: This is the **LEAST SECURE** option. It lets anyone with access to your SQL Server connect to Oracle as you! Please **do not use this** for other than a quick test.

It is recommended that you select the first option, **Not be made**, and specifically map Local Logins (SQL Server Users) to Oracle user IDs and Passwords you already have.

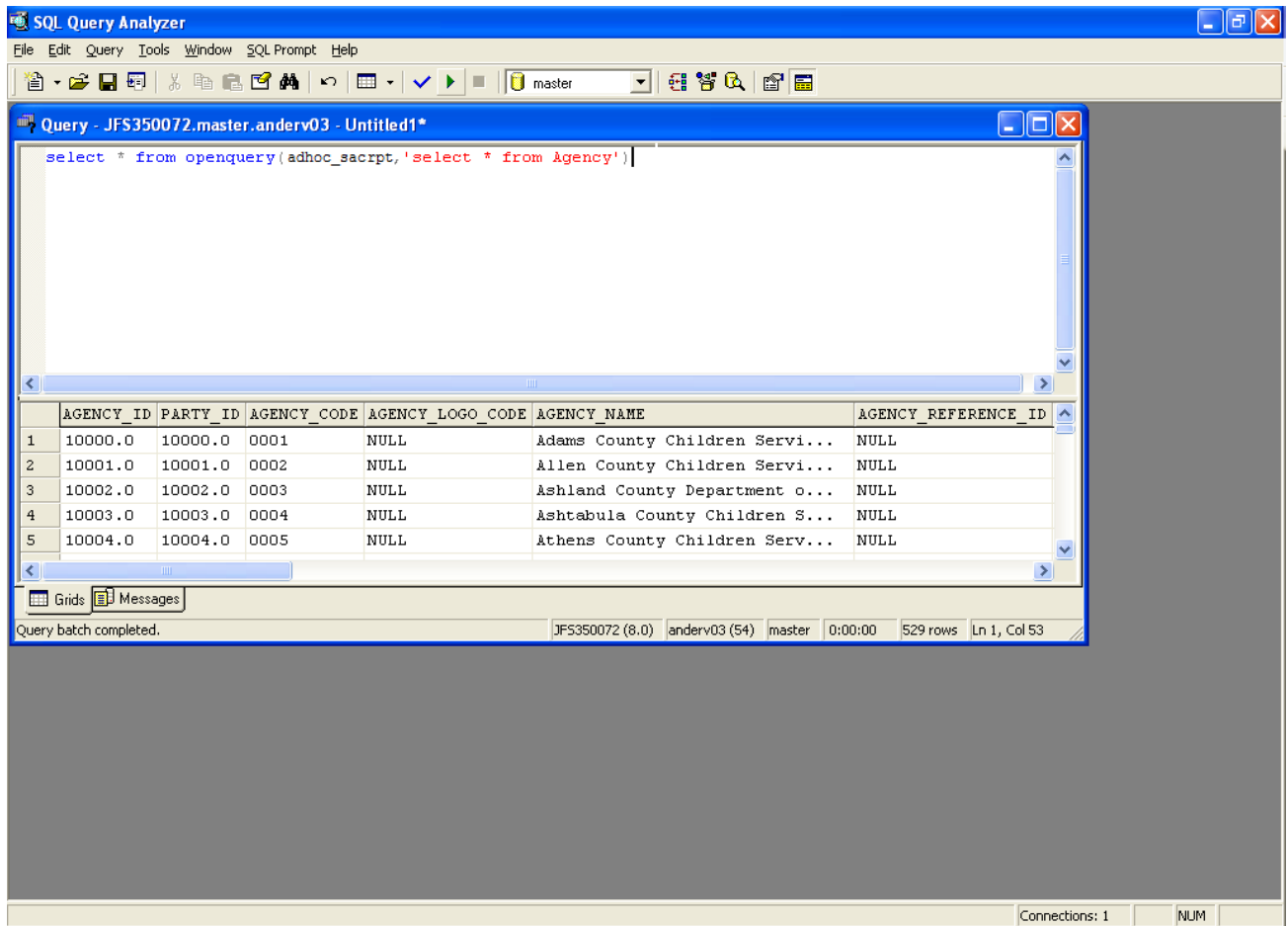
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Querying in SQL Server

1. Open **Query Analyzer** and type a query.

The sample query shown below is:

```
select * from openquery (adhoc_sacrpt, 'select * from Agency')
```



Note: Using the SQL Server 4-part name (select * from adhoc_sacrpt..SACWIS.AGENCY) did not work; however, running the query via the **openquery** syntax (as shown in the example above) does work.

If you need additional information or assistance, please contact the SACWIS Help Desk.