

Solution Details

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Product Version/s:
Title: U2ODBC and SQL INNER JOIN syntax error against UniVerse server when using Crystal Reports 2011

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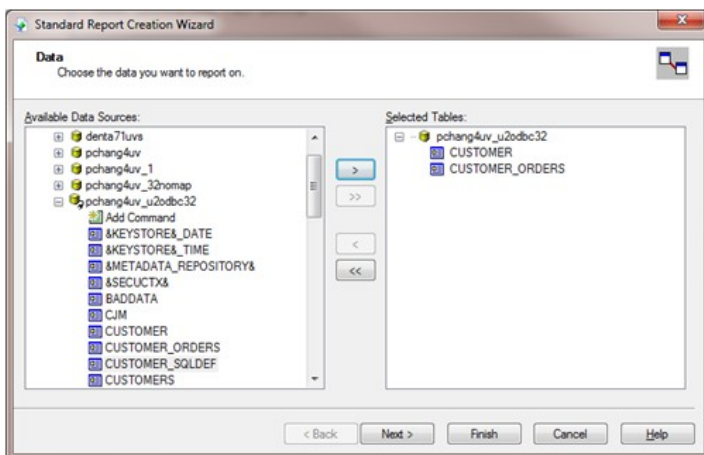
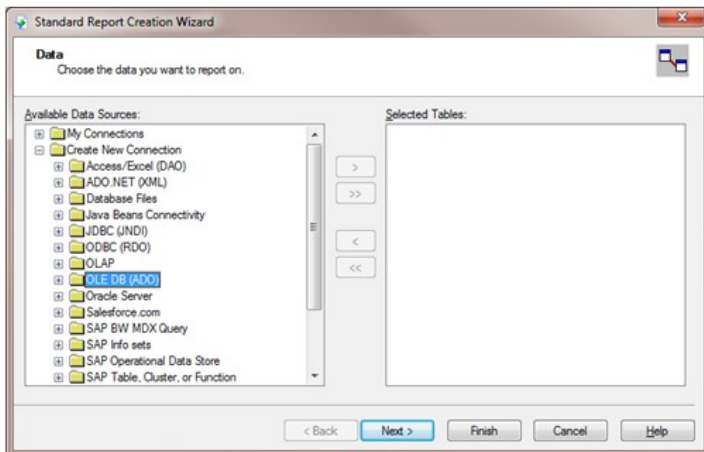
Abstract

Crystal Reports 2011 has changed the SQL syntax used from ODBC syntax to ANSI syntax, which is based on the ODBC driver compliance-level and the LotusNotesJoinBuilder option defined in the registry key. The U2ODBC client is set to 3.0 compliance-level by default. When joining two tables in Crystal Reports 2011, the INNER JOIN syntax that is generated cannot be accepted by the UniVerse SQL engine. A syntax error will be displayed.

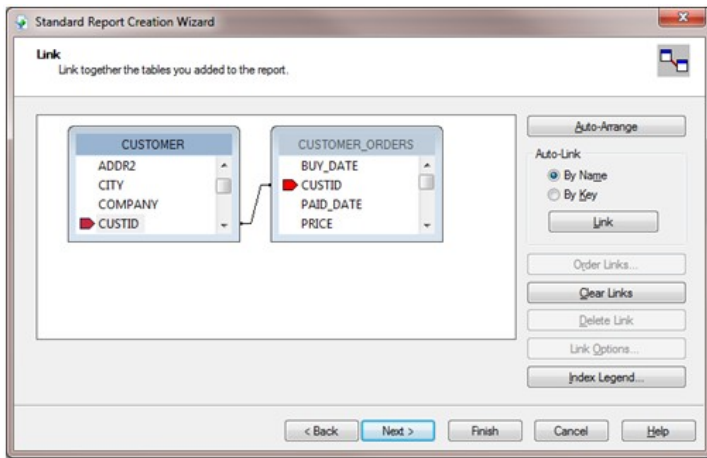
More Information

When joining two tables in Crystal Reports 2011, it will generate an INNER JOIN syntax error. Here is an example that shows the problem. It joins the CUSTOMER and CUSTOMER_ORDERS tables against the UniVerse HS.SALES account with the U2ODBC client:

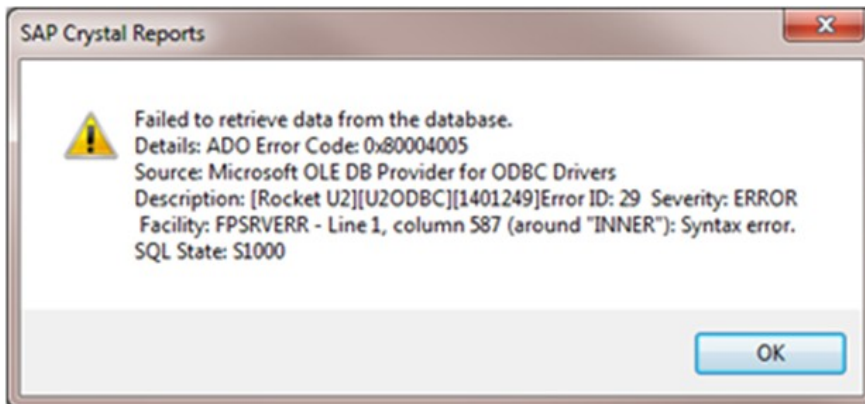
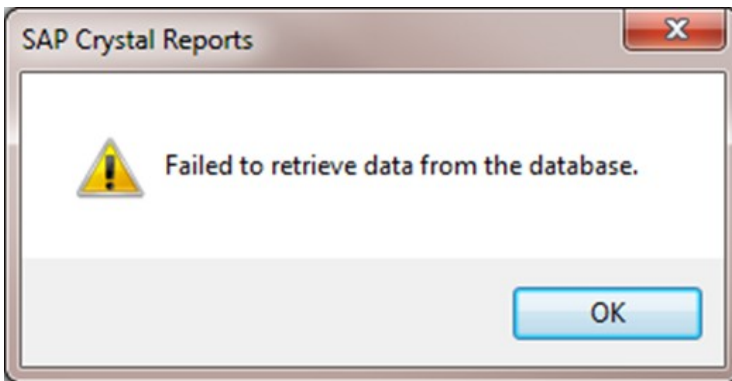
1. Set up a user or system 32-bit DSN with U2ODBC client.
2. Start 32-bit Crystal Reports 2011 with the OLEDB (ADO) connection and select the DSN name that was created in Step 1. This example uses the DSN name of "pchang4uv_u2odbc32":



3. Choose the CUSTOMER and CUSTOMER_ORDERS tables.



4. Choose all or some fields, then skip all other options to generate a standard Crystal Report. It will generate the INNER syntax error.



Solution

The problem can be solved by using the **USE_U2ODBC_AS_20=1** environment variable setting. This will force Crystal Reports 2011 to create the simple join syntax.

1. Set the variable using the Windows Advanced system settings.
2. After the **USE_U2ODBC_AS_20** variable is set, it can be verified by the DOS "echo %USE_U2ODBC_AS_20%" or "set" commands.
3. Set up the LotusNotesJoinBuilder registry key option. The registry key location will be different based on the Crystal Reports version.

Here are the samples for different Windows environments:

- For a 64-bit Windows 7 machine with 32-bit Crystal Reports 2011:

Windows Registry Editor Version 5.00

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\SAP BusinessObjects\Suite XI 4.0\Crystal Reports\Database\QueryBuilder]
```

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\SAP BusinessObjects\Suite XI 4.0\Crystal Reports\Database\QueryBuilder\JoinBuilder]
"LotusNotesJoinBuilder"="u2odbc"
```

- For a 32-bit Windows XP machine with 32-bit Crystal Reports 2011:

Windows Registry Editor Version 5.00

```
[HKEY_LOCAL_MACHINE\SOFTWARE\SAP BusinessObjects\Suite XI 4.0\Crystal Reports\Database\QueryBuilder]
```

```
[HKEY_LOCAL_MACHINE\SOFTWARE\SAP BusinessObjects\Suite XI 4.0\Crystal Reports\Database\QueryBuilder\JoinBuilder]  
"LotusNotesJoinBuilder"="u2odbc"
```

- For a 64-bit Windows 7 machine with 32-bit Crystal Reports 2008:

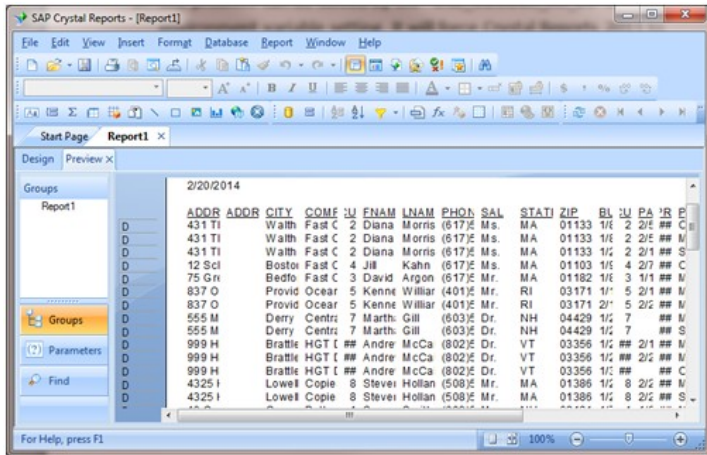
Windows Registry Editor Version 5.00

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Business Objects\Suite 12.0\Crystal Reports\Database\QueryBuilder]
```

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Business Objects\Suite 12.0\Crystal  
Reports\Database\QueryBuilder\JoinBuilder]  
"LotusNotesJoinBuilder"="u2odbc"
```

4. After the USE_U2ODBC_AS_20 variable and the LotusNotesJoinBuilder registry key options are set, you can restart Crystal Reports 2011 to generate a standard report using the Report Wizard option.

Here is the sample output with the CUSTOMER and CUSTOMER_ORDERS tables:



Note: When using the Crystal Reports ODBC (RDO) connection, it only requires the USE_U2ODBC_AS_20=1 environment variable setting. The JoinBuilder registry key setting is not necessary.

Send feedback to u2support@rocketsoftware.com.

Comments

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