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Title: Problems with UVODBC and SQL OUTER JOIN syntax when using Crystal Reports XI

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Abstract

Crystal Reports XI has changed the SQL syntax used from ODBC syntax to ANSI syntax. In most instances this does not cause a problem. The exception to this is the LEFT OUTER JOIN syntax. The SQL statement now sent to UVODBC by Crystal Reports XI is as follows:

```
SELECT CUSTOMER.FNAME, CUSTOMER_ORDERS.PRODID FROM CUSTOMER LEFT OUTER JOIN CUSTOMER_ORDERS ON CUSTOMER.CUSTID = CUSTOMER_ORDERS.CUSTID;
```

Provided 'Name Mapping' is set to 'No' and 'Retry as UniVerse' is set to 'Yes' in the UniVerse ODBC Data Source Setup options screen, this OUTER JOIN syntax should work successfully. However, if 'Name Mapping' is set to 'Yes' and 'Retry as UniVerse' set to 'No', then the SQL statement will fail with an error message similar to the following:

```
ErrorMsg="[IBM][UVODBC][1401032]Error ID: 29 Severity: ERROR Facility: FPSRVERR - Line 1, column 65 (around "OUTER"): Syntax error."
```

The error message has also stated (around "LEFT") in some instances.

Cause

This error is caused because UVODBC is expecting the following OUTER JOIN syntax:

```
SELECT CUSTOMER.FNAME, CUSTOMER_ORDERS.PRODID FROM { oj CUSTOMER LEFT OUTER JOIN CUSTOMER_ORDERS ON CUSTOMER.CUSTID = CUSTOMER_ORDERS.CUSTID };
```

Solution

Crystal Reports XI can be told to produce the required syntax by means of a Registry entry as follows:

```
[HKEY_LOCAL_MACHINE\Software\Business Objects\Crystal Reports\Database\Querybuilder\OuterJoinEscSeq]
"MSOuterJoinEscSeq"="uvodbc"
```

The following Registry entry has also been found to be effective in some cases:

```
[HKEY_CURRENT_USER\Software\Business Objects\Crystal Reports\Database\QueryBuilder\JoinBuilder] LotusNotesJoinBuilder = "UVODBC"
```

Send feedback to U2support@rocketsoftware.com.

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