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Technote ID: SFMA-9201
Type: Tech Note
Publish Date: 2010-02-01 02:00
Last Updated: 2010-03-31 11:41
Product Version/s:
Title: How to call a UniVerse subroutine to return data via a Crystal Reports 9 UVODBC connection

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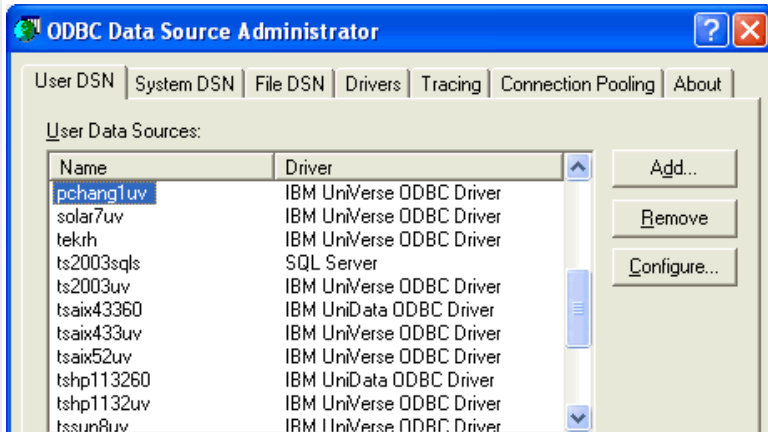
Abstract

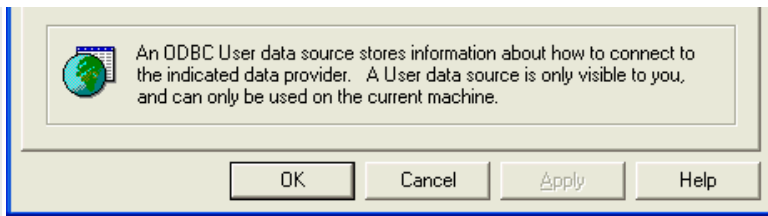
This technote demonstrates how to call a UniVerse subroutine to get data back to Crystal Reports 9 via a UniVerse ODBC connection.

Solution

Here are the sample steps to FINDSTATE_LIKEget UniVerse STATES data via a UniVerse ODBC connection in Crystal Report 9.

1. Create a UniVerse User DSN using Microsoft ODBC Data Source Administrator tool.



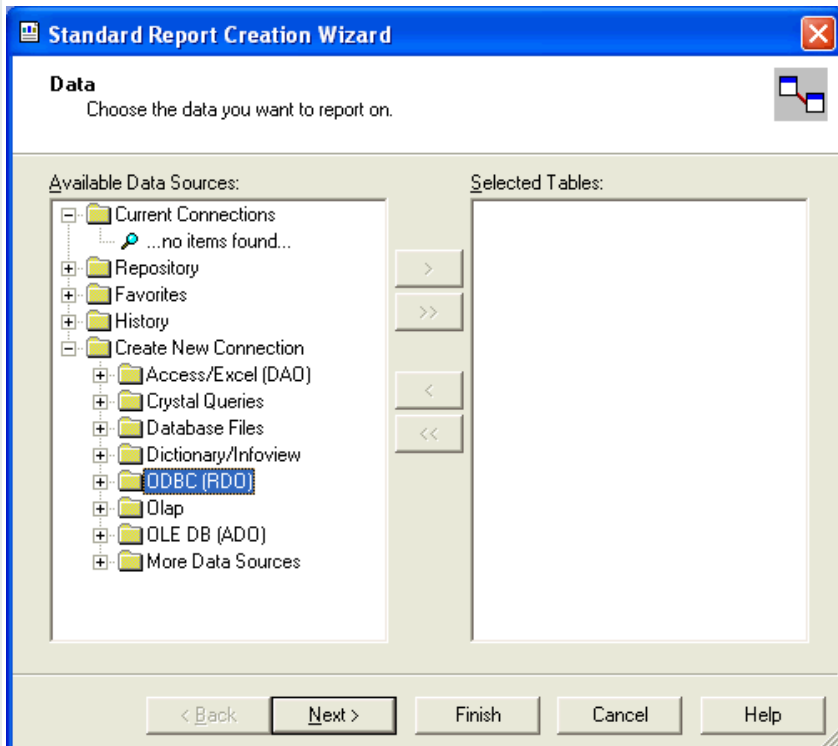


2. Create a sample FINDSTATES_LIKE subroutine in UniVerse, compile and catalog it. This subroutine gets STATES data based on the partial key code information.

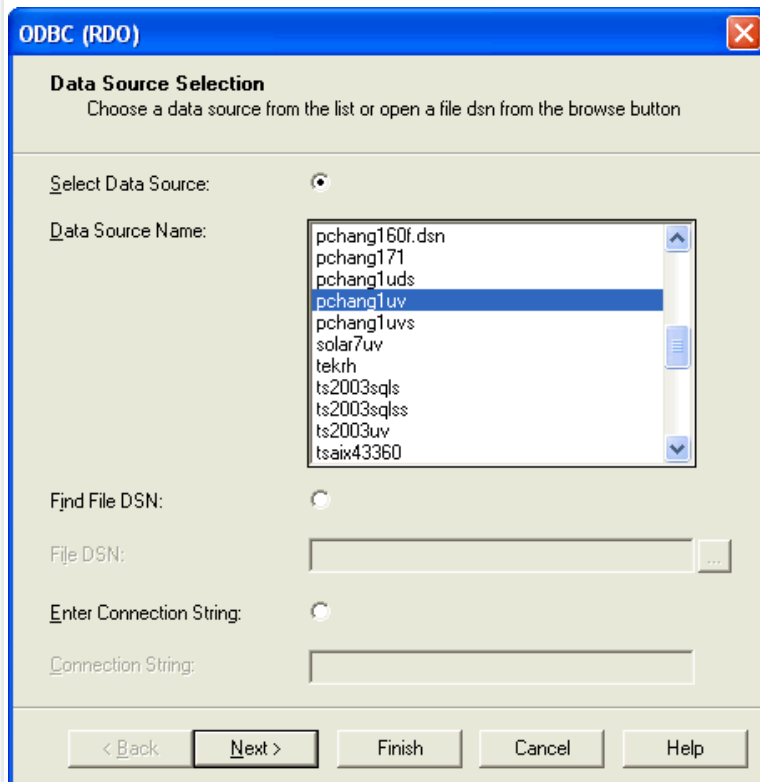
```
SUBROUTINE FINDSTATES_LIKE (CODE)
$INCLUDE UNIVERSE.INCLUDE ODBC.H
SelectStmt = "SELECT CODE, NAME FROM STATES WHERE CODE LIKE '%" : CODE : "%'"
STATUS = SQLExecDirect(@HSTMT,SelectStmt)
RETURN
```

3. In Windows Crystal Reports 9, use the following steps to call the UniVerse FINDSTATES_LIKE subroutine to return STATES data.

1) In Crystal Reports 9, use Standard Report Creation Wizard tool to create a UVODBC connection.



2) In the Choose Data Source dialog, click on the Databases tab and then click on the UVODBC DSN, which is using the IBM UniVerse ODBC driver.

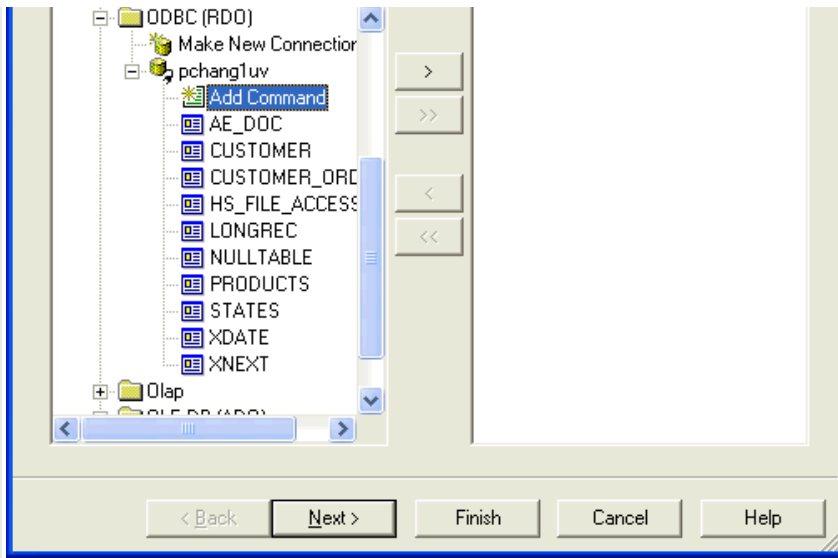


3) In the UniVerse ODBC Data Source Setup dialog, enter your login connection information.

The screenshot shows a dialog box titled "ODBC (RDO)" with a close button in the top right corner. The main heading is "Connection Information" with the instruction "Provide necessary information to log on to the chosen data source". There are three input fields: "Server:" containing the text "pchang1uv", "User ID:" which is empty, and "Password:" which is empty. At the bottom, there are five buttons: "< Back", "Next >", "Finish", "Cancel", and "Help".

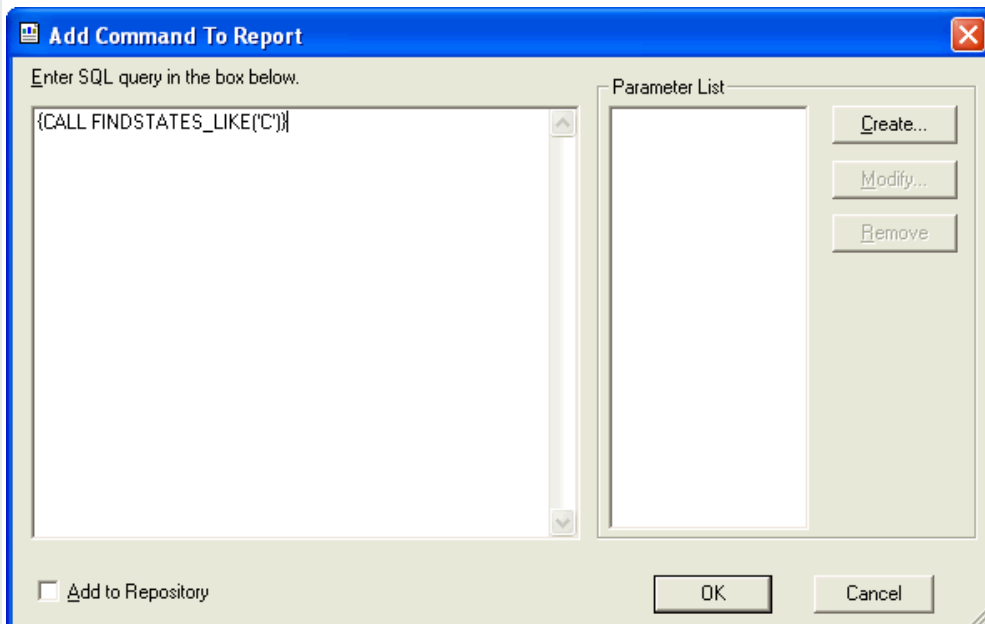
4) In the Standard Report Creation Wizard dialog, click the Add Command.

The screenshot shows a dialog box titled "Standard Report Creation Wizard" with a close button in the top right corner. The main heading is "Data" with the instruction "Choose the data you want to report on." and a small icon of a bar chart. At the bottom, there are two labels: "Available Data Sources:" and "Selected Tables:". The content area between these labels is currently empty.

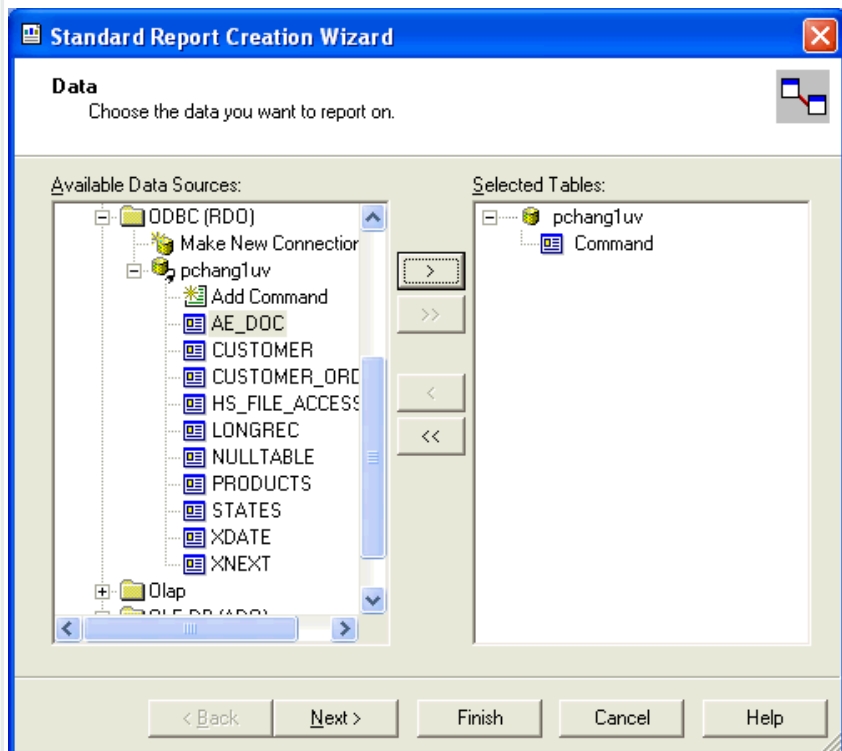


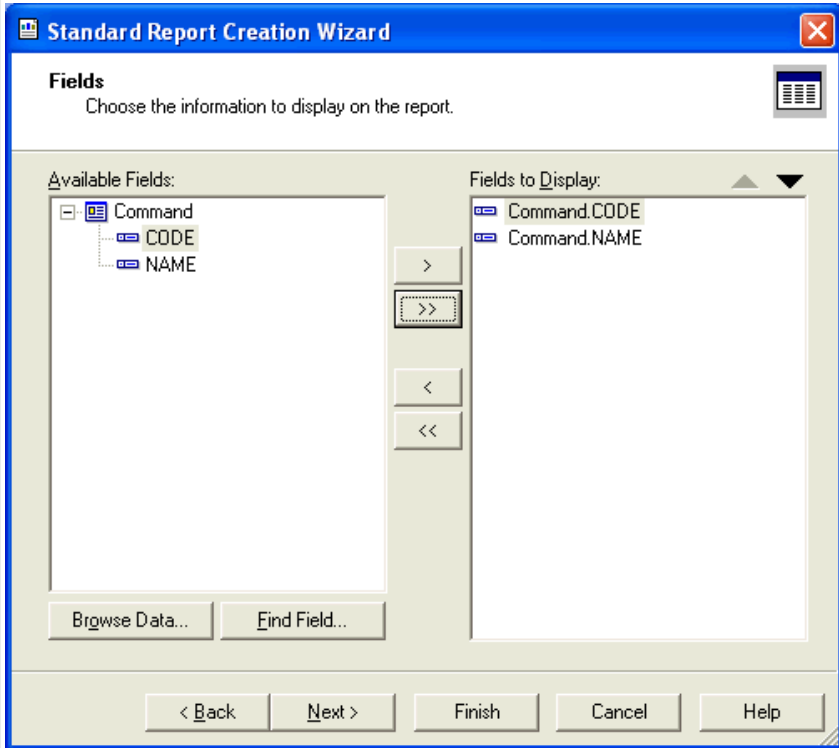
5) Add the SQL statement to the Add Command To Report dialog box.

```
{CALL FINDSTATES_LIKE('C')}
```



Here is the queried STATES data returned to Crystal Reports 9.





The screenshot shows the Crystal Reports application window titled "Crystal Reports - [Report1]". The interface includes a menu bar (File, Edit, View, Insert, Format, Database, Report, Window, Help), a toolbar with various icons, and a "Field Explorer" pane on the left. The main area is split into "Design" and "Preview" tabs. The "Preview" tab is active, displaying a report with a table of state data. The report header shows a date "4/25/2006" and a page number "1 of 1". The table has two columns: "CODE" and "NAME". The data rows are as follows:

CODE	NAME
CA	California
CO	Colorado
CT	Connecticut
NC	North Carolina
SC	South Carolina

At the bottom of the window, there is a status bar that reads "For Help, press F1" on the left, "Records: 5" in the center, and "100%" on the right.

Comments

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