

How to Add QueryDBWithUserKey Service Data Connection

01/31/2019

Purpose

This document details how you can add QueryDBWithUserKey service to your InfoPath forms.

Pre-requisites

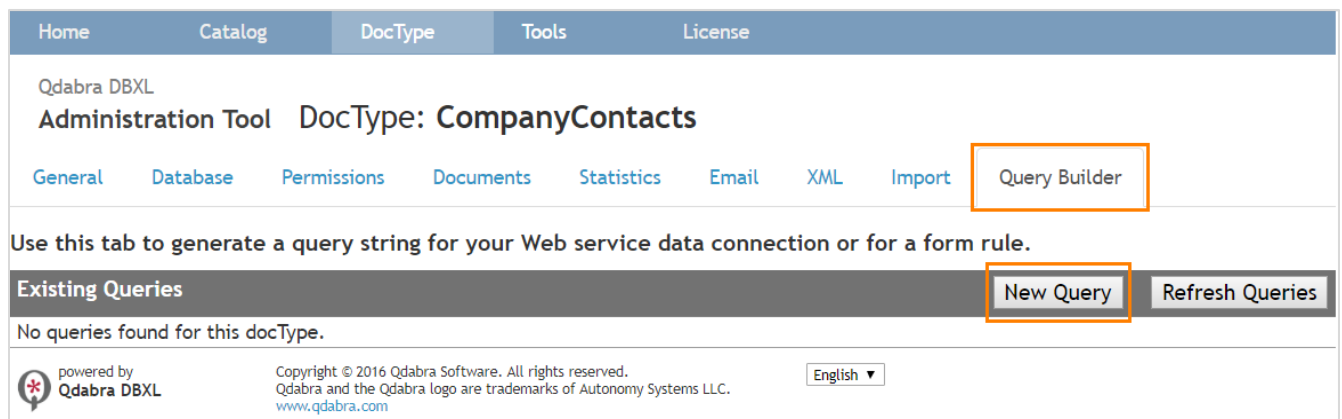
Your InfoPath form template

Qdabra DBXL installed

Steps

Build your SQL queries

1. Go to your DBXL Doctype.
2. Select **Query Builder** tab and click **New Query**.



Home Catalog DocType Tools License

Qdabra DBXL
Administration Tool DocType: CompanyContacts

General Database Permissions Documents Statistics Email XML Import Query Builder

Use this tab to generate a query string for your Web service data connection or for a form rule.

Existing Queries New Query Refresh Queries

No queries found for this docType.

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3. Add a description to your query and click **Construct Now**.

Use this tab to generate a query string for your Web service data connection or for a form rule.

Query

Query Description

Data Sources

Web Service Url	Web Service Name	Target
http://192.168.1.100/Service.svc	QdabraWebService	<input checked="" type="radio"/> SQL Database

Database Connection String

Query Parameters

Database Name	Table Name	Max Rows	Distinct

- Specify the database name and click **Refresh Database Schema**.

Database Connection String

Specify a database name or alias
 Specify a database connection string

Database Is Alias

Query Parameters

Database Name	Table Name	Max Rows Count	Distinct
Demo			

This will retrieve all the tables from the specified database.

Query Parameters

Database Name	Table Name	Max Rows Count	Distinct
Demo			

Query Columns: Airports, Airports2, Airports3
 Query Filter: Company
 Query Sort: ContactDetails, DailyTimeCard
 Query Strings: Emails, ExpenseReport

- Select the table where you want to query the necessary column data from.

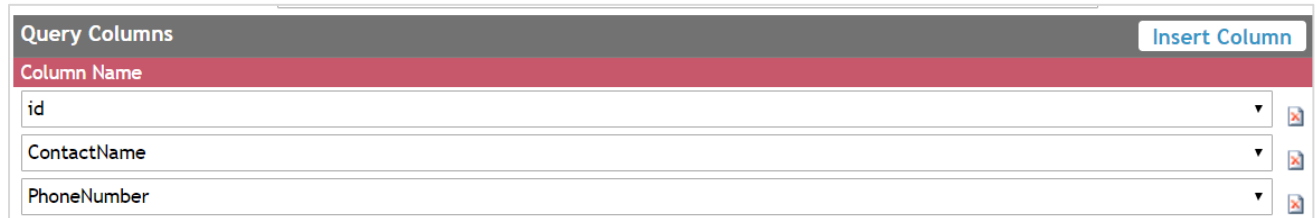
Query Parameters

Database Name	Table Name	Max Rows Count	Distinct
Demo	<input type="text" value="ContactDetails"/>		

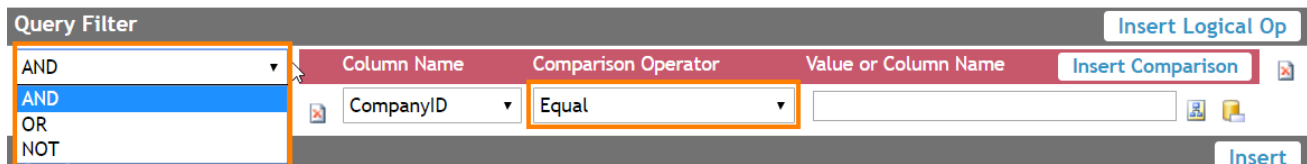
6. We have three tabs to start building our query: **Query Columns**, **Query Filter**, and **Query Sort**.



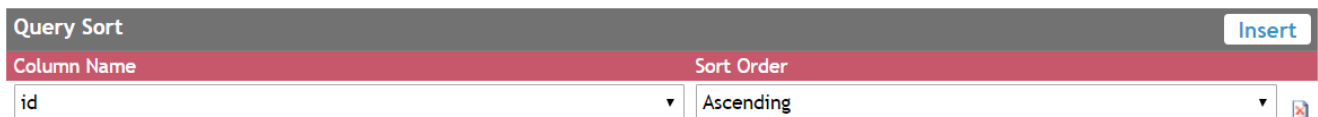
7. In **Query Columns** tab, click **Insert Column** to select the columns from the table that you want to query.



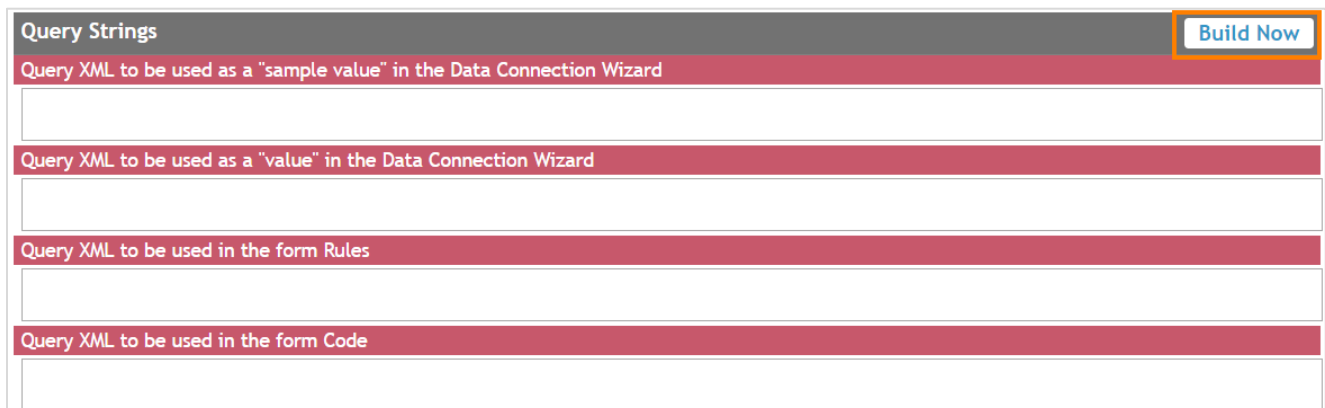
8. You can also use filters in **Query Filter** tab to filter values in the specified columns. You can insert logical and comparison operators for this function.



9. If you want to sort values on columns, specify the columns in **Query Sort** tab by clicking **Insert**.



10. Click **Build Now** to generate the queries:

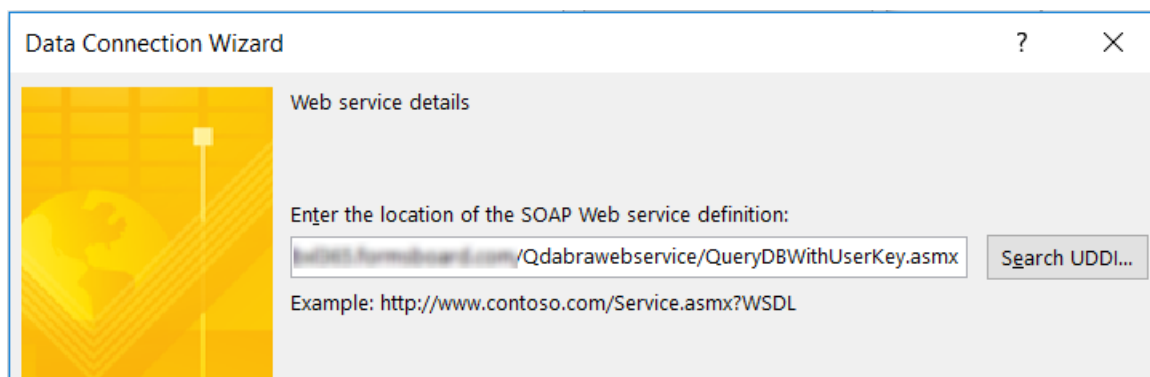


Query Strings	Build Now
Query XML to be used as a "sample value" in the Data Connection Wizard	
<code><query database='Demo' table='ContactDetails' maxrows='2' getSample='true'><columns><column name='id'></column><column name='ContactName'></column><column name='PhoneNumber'></column></columns><sort><column name='id' order='ASC'></column></sort></query></code>	
Query XML to be used as a "value" in the Data Connection Wizard	
<code><query database='Demo' table='ContactDetails'><columns><column name='id'></column><column name='ContactName'></column><column name='PhoneNumber'></column></columns><sort><column name='id' order='ASC'></column></sort></query></code>	
Query XML to be used in the form Rules	
<code><query database='Demo' table='ContactDetails'><columns><column name='id'></column><column name='ContactName'></column><column name='PhoneNumber'></column></columns><sort><column name='id' order='ASC'></column></sort></query></code>	
Query XML to be used in the form Code	
<code>"<query database='Demo' table='ContactDetails'><columns><column name='id'></column><column name='ContactName'></column><column name='PhoneNumber'></column></columns><sort><column name='id' order='ASC'></column></sort></query>"</code>	

Take note of these queries since you're going to enter these when creating your form data connection.

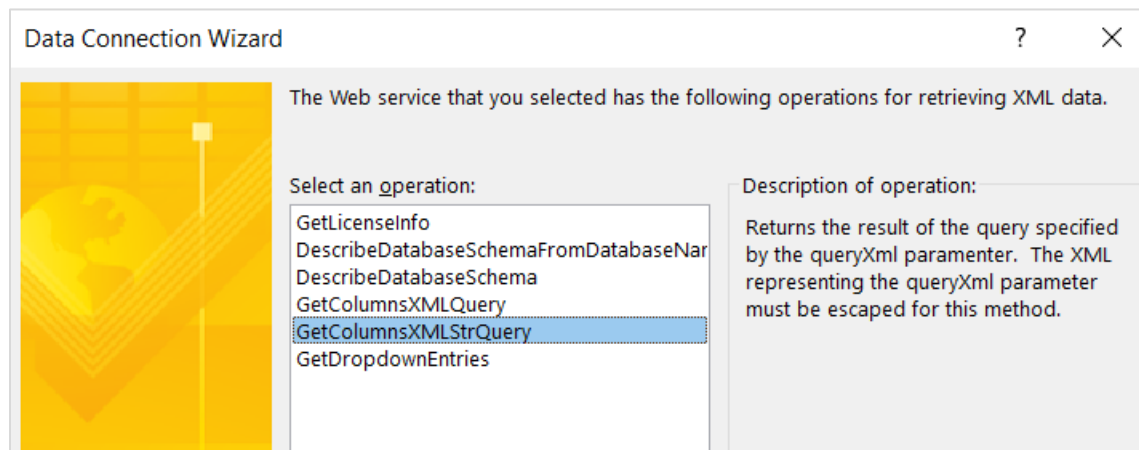
Add SOAP Data Connection in your Form

1. Add a new SOAP Web Service (receive) data connection in your form. Specify your DBXL server URL followed by "QueryDBWithUserKeyService.asmx".



The screenshot shows the 'Data Connection Wizard' window with the 'Web service details' section. It prompts the user to 'Enter the location of the SOAP Web service definition:' and provides a text input field containing 'http://localhost:formbuilder.com/Qdabrawebservice/QueryDBWithUserKey.asmx'. To the right of the input field is a 'Search UDDI...' button. Below the input field, an example URL is shown: 'Example: http://www.contoso.com/Service.asmx?WSDL'.

2. Select **GetColumnsXMLStrQuery** operation.



The screenshot shows the 'Data Connection Wizard' window displaying the available operations for the selected web service. The text reads: 'The Web service that you selected has the following operations for retrieving XML data.' Below this, there is a list of operations under the heading 'Select an operation:'. The operations listed are: 'GetLicenseInfo', 'DescribeDatabaseSchemaFromDatabaseName', 'DescribeDatabaseSchema', 'GetColumnsXMLQuery', 'GetColumnsXMLStrQuery' (which is highlighted in blue), and 'GetDropdownEntries'. To the right of the list, there is a 'Description of operation:' section which states: 'Returns the result of the query specified by the queryXml parameter. The XML representing the queryXml parameter must be escaped for this method.'

- Set your DBXL Key in the **key** field. From the **Query Builder** tab in DAT, copy the first query (used as a "sample value") and paste it in the **queryXml** field in the Data Connection Wizard. Click **Next**.

Data Connection Wizard

To design a form based on this Web service, InfoPath needs to collect more information about the service by querying it with sample values in the parameters listed below. To enter a sample value for each parameter, select the parameter and click Set Sample Value.

Parameters:

Parameter	Type	Sample Value
tns:key	string	eyJhbGciOiJIUzEiL...
tns:queryXml	string	

Set Sample Value...

Parameter Details

Parameter name: queryXml

Data type: string

Sample value: ASC' </column> </sort> </query>

OK Cancel

Query Strings Build Now

Query XML to be used as a "sample value" in the Data Connection Wizard

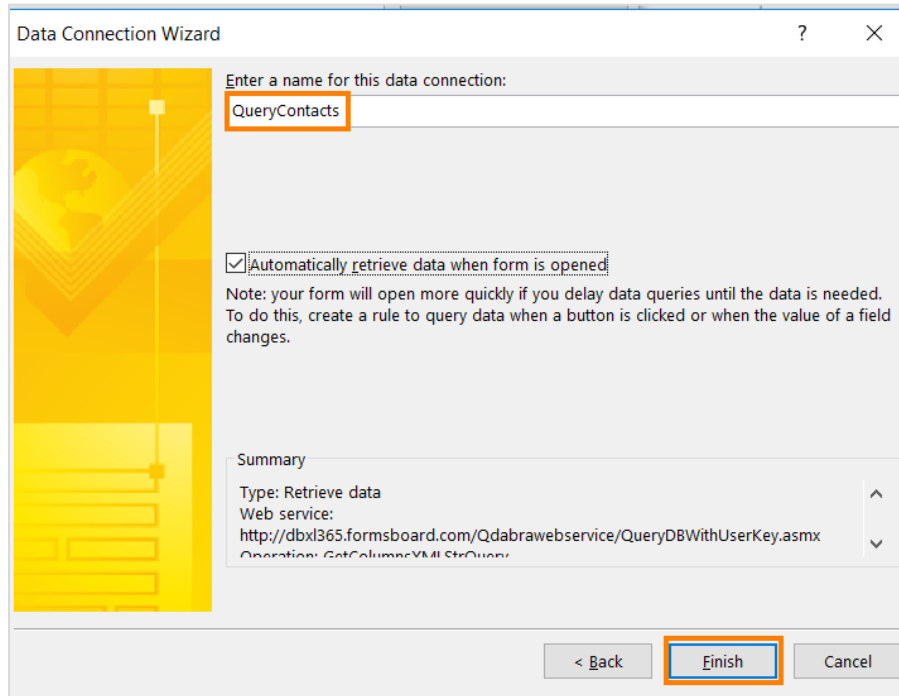
```
<query database='Demo' table='ContactDetails' maxrows='2' getSample='true'><columns><column name='id'></column><column name='ContactName'></column><column name='PhoneNumber'></column></columns><sort><column name='id' order='ASC'></column></sort>
```

- In the next window, repeat step 3 but this time, copy the **queryXml** value from the second query in the DBXL **Query Builder**. Once query is copied, click **Next** twice in the Data Connection Wizard.

Query XML to be used as a "value" in the Data Connection Wizard

```
<query database='Demo' table='ContactDetails'><columns><column name='id'></column><column name='ContactName'></column><column name='PhoneNumber'></column></columns><sort><column name='id' order='ASC'></column></sort></query>
```

5. Add a meaningful name for the data connection. Click **Finish**.



Data Connection Wizard

Enter a name for this data connection:

Automatically retrieve data when form is opened

Note: your form will open more quickly if you delay data queries until the data is needed. To do this, create a rule to query data when a button is clicked or when the value of a field changes.

Summary

Type: Retrieve data
 Web service:
<http://dbxl365.formsboard.com/Qdabrawebservice/QueryDBWithUserKey.aspx>
 Operation: GetColumnsXMLStrQuery

< Back **Finish** Cancel

Test Your Form!

Test your form and verify that the values from the database are being retrieved successfully.

Contacts		
<i>Id</i>	<i>Contact Name</i>	<i>Phone Number</i>
2	Jane Doe	67890
3	Jane Wayne	78901
4	John Doe	12345
5	John Wayne	23456
6	Clint Eastwood	34567