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XML Publisher Report from XML Data Template

32 Comments / Oracle Apps, Oracle Apps Development, Oracle Apps Technical, XML Publisher / By Arun Raj

I used to wonder how to develop XML Publisher reports without using rdf or sql or pl/sql concurrent program. The traditional way is to

1. Create a RDF or SQL or PL/SQL procedure
2. Register the RDF or SQL or PL/SQL report as a concurrent program and set the output to XML
3. Run the above report and get the output and save it as a XML file
4. Use the XML data in building the Template using Microsoft Word

This seemed to be a little cumbersome for me. So I was searching for alternatives. Then I stumbled upon the following solution. And I hope this helps all of you. This is part one of a series of blogs. Hope you enjoy this and come up with questions and suggestions. So let us take a look at how we can create xml report from xml data template.

The XML data template is an XML document that consists of four basic sections:

1. Parameters
2. Triggers
3. Data Query
4. Data Structure

This structure is shown in the following graphic:

Step by Step Guide to create a sample XML Data Template:

Decide on the SQL Query

In the example, we are trying to get the following data from the AP_INVOICES_ALL Table

1. INVOICE_NUM
2. INVOICE_CURRENCY_CODE
3. INVOICE_AMOUNT

The query for the same will be like below:

```
SELECT   invoice_num
        ,invoice_currency_code
        ,invoice_amount
  FROM  ap_invoices_all;
```

Decide on the parameters

We will be using two parameters to limit the data being retrieved:

1. ORG_ID
2. VENDOR_ID

The resulting query will be like:

```
SELECT   invoice_num
```

```
        ,invoice_currency_code
        ,invoice_amount
  FROM  ap_invoices_all
 WHERE  org_id = :p_OrgId
   AND  vendor_id = :p_VendorId;
```

That's all we need to construct the XML Data Template.

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<dataTemplate name ="invoiceData" description="Invoice Data" Version="1.0" >
<parameters>
<parameter name="p_OrgId" dataType="number" />
<parameter name="p_VendorId" dataType="number" />
</parameters>
<dataQuery>
<sqlStatement name="Q1">
<![CDATA[
SELECT invoice_num,invoice_currency_code,invoice_amount
  FROM ap_invoices_all
 WHERE org_id = :p_OrgId
   AND vendor_id = :p_VendorId
]]>
</sqlStatement>
</dataQuery>
<dataStructure>
<group name="G_INV" source="Q1">
<element name="INV_NUMBER" value="invoice_num" />
<element name="CURRENCY_CODE" value="invoice_currency_code" />
<element name="AMOUNT" value="invoice_amount" />
</group>
</dataStructure>
</dataTemplate>
```

If you see the above XML Data Template, we have specified the parameters that are being used and also the SQL Query that will be fetching the data. The SQL Query is using the parameters that are being defined under the Parameters Section. I have also included a jpeg image of the XML File Definition. Sometimes when you copy the XML Definition from the blog, you might run into "invalid characters" that can cause issues. So check the jpeg image and make use of it.

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<dataTemplate name ="invoiceData" description="Invoice Data" Version="1.0">
<parameters>
<parameter name="p_OrgId" dataType="number" />
<parameter name="p_VendorId" dataType="number" />
</parameters>
<dataQuery>
<sqlStatement name="Q1">
<![CDATA[
SELECT invoice_num,invoice_currency_code,invoice_amount
FROM ap_invoices_all
WHERE org_id = :p_OrgId
AND vendor_id = :p_VendorId
]]>
</sqlStatement>
</dataQuery>
<dataStructure>
<group name="G_INV" source="Q1">
<element name="INV_NUMBER" value="invoice_num" />
<element name="CURRENCY_CODE" value="invoice_currency_code" />
<element name="AMOUNT" value="invoice_amount"/>
</group>
</dataStructure>
</dataTemplate>
```

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Save the same as ".xml" file in your local system. After saving the file, you should be able to open it in the browser. Double click the xml file and the file should open. The file will look as shown below:

```xml
<?xml version="1.0" encoding="UTF-8"?>
- <dataTemplate Version="1.0" description="Invoice Data" name="invoiceData">
  - <parameters>
      <parameter name="p_OrgId" dataType="number"/>
      <parameter name="p_VendorId" dataType="number"/>
    </parameters>
  - <dataQuery>
    - <sqlStatement name="Q1">
        <![CDATA[ SELECT invoice_num,invoice_currency_code,invoice_amount FROM ap_invoices_all WHERE org_id = :p_OrgId AND vendor_id = :p_VendorId ]]>
      </sqlStatement>
    </dataQuery>
  - <dataStructure>
    - <group name="G_INV" source="Q1">
        <element name="INV_NUMBER" value="invoice_num"/>
        <element name="CURRENCY_CODE" value="invoice_currency_code"/>
        <element name="AMOUNT" value="invoice_amount"/>
      </group>
    </dataStructure>
  </dataTemplate>
```
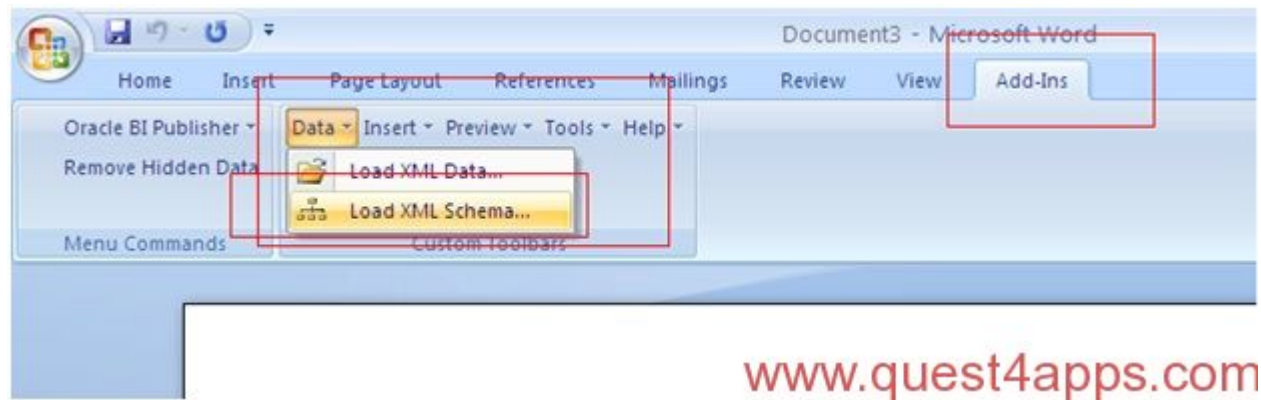
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Open Word. Go to Add-Ins. You will be able to see the BI Publisher Menu. Under the Menu, Select Data > Load XML Schema. Select the xml file that we just created.

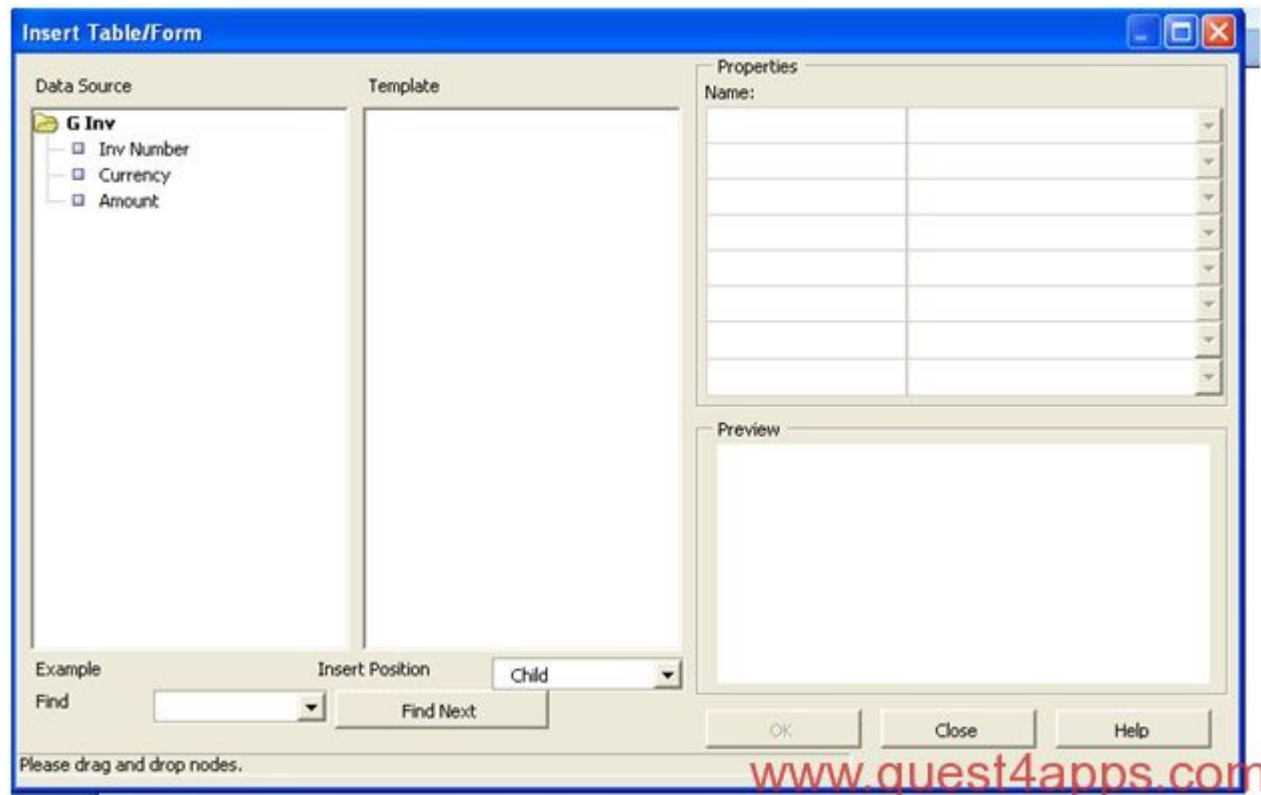If the data is loaded successfully, you will get the below message:
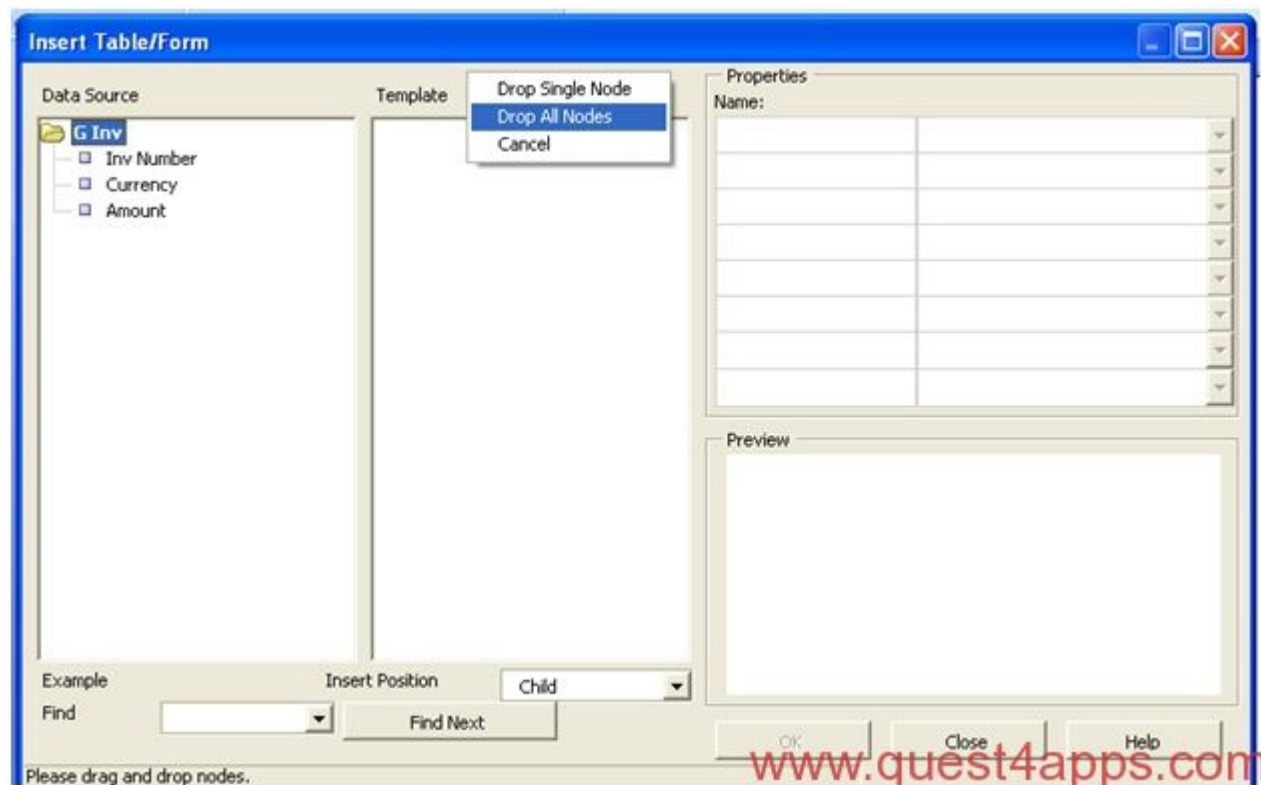

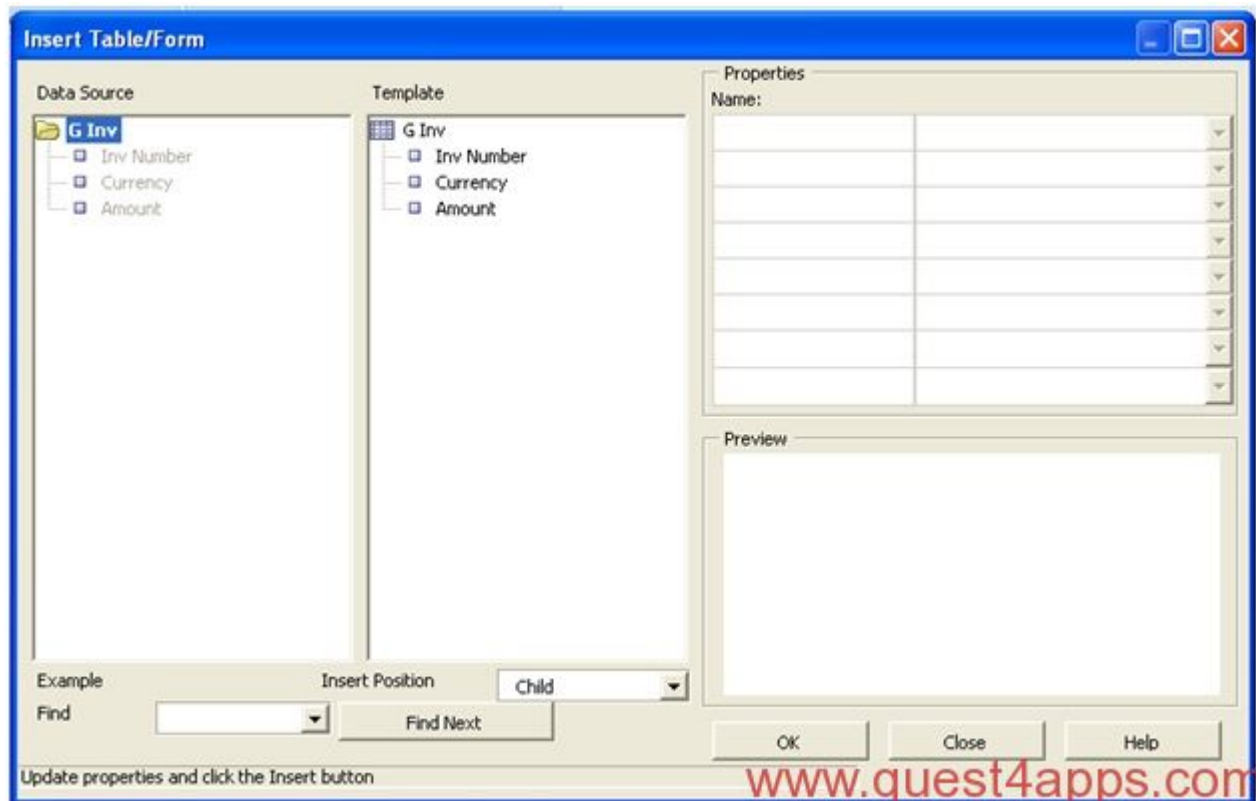Click OK and to Continue. Select Insert > Table/Form

You will get the below screen:

Drag and Drop **G Inv** element from Data Source to the Template Region as shown below

Select **Drop All Nodes** from the choices. We will be getting the below screen:

Press **OK**. We will get the below template in the Word Document. Save the same as XXINV_DETAILS.rtf.

Inv Number	Currency	Amount
F INV_NUMBER	CURRENCY	AMOUNT E

Go to **XML Publisher Administrator** responsibility and create a new Data Definition. Give the following for the fields:

Name – XXINV_DETAILS

Code – XXINV_DETAILS

Application – Provisioning (or your custom application)

Start Date – Automatically Populated

Press "Add File" next to Data Template. Browse and upload the XML Data Template that we have created here.

Go to Data Templates and create a new Data Template. Give the following details:

Select the Data Definition that we had created prior to this.

Select Language as US English and upload the RTF File that we have created (XXINV_DETAILS.rtf).

Navigate to System Administrator > Concurrent > Program > Define.

Create a new Concurrent Program and give the following details.

The Executable should always be **XDODTEXE**.

Click on Parameters and give the following details:

Assign the program to the request group and run the program.

You can download the sample output file HERE.

Hope this helps. Let me know your thoughts and feel free to ask any questions that you might have. Also, check out the next blog which has Triggers being called from the XML Template file. You can check it here.

Also check out more advanced topic on XML Templates – XML Template Part 3

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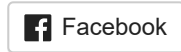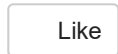
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32 thoughts on "XML Publisher Report from XML Data Template"

THANKAM
JULY 31, 2010 AT 12:15 PM

Thats a good work...Keep going..Something interesting.

Reply

MAHAK
JULY 31, 2010 AT 2:49 PM

hey gr8 one me struck with traditional one nw wud opt fr dis one….thnkxxx

Reply

SUBRAT
JULY 31, 2010 AT 11:05 PM

gr8 1… will help ppl working 1st time in xml reports.

Reply

VENKAT
AUGUST 2, 2011 AT 8:53 AM

Nice , It is very usefull……..

Reply

SPICYGUY
MARCH 20, 2012 AT 11:15 AM

Great…
Keep sharing the knowledege.

Reply

SARUNRAJ
APRIL 12, 2013 AT 11:28 PM

have started again!! 🙂 Thanks for the kind word..

Reply

AHMED ELSHAYEB
APRIL 1, 2012 AT 12:25 PM

Very Good

الله ينور

Reply

RAUL
NOVEMBER 24, 2012 AT 2:54 PM

its so niiiiiiiiiiiiiiiiiiiiiiice

Reply

SARUNRAJ
APRIL 13, 2013 AT 12:26 PM

Thanks Raul.. Started again with posts on OTL.. I will be posting more on Oracle Apex and hopefully Oracle ADF soon..

Reply

VK7070
MARCH 11, 2015 AT 6:25 PM

Hi Sarunraj, — i tried your example step by step and I'm facing a weird issue. the SQL Statment is not getting invoked in the DataTemplate.I'm not sure, if there is something wrong with the environment.

i'm a newbie to oracle apps.. can you please help.

Even tried a Simple DataTemplate as below.

Output:

–

Reply

ARUNRAJ
MARCH 11, 2015 AT 9:34 PM

Hi,

Are you getting any errors? What is there in the log file of the concurrent request?
You can send the files (Log file, output file, RTF Template, XML Data Template) to
arunraj@quest4apps.com

Thanks,
Raj

Reply

ARUNRAJ
MARCH 17, 2015 AT 10:40 AM

Saw your email. I have replied with the changes. Let me know if that works.

Reply

NISCHAL REDDY
NOVEMBER 18, 2015 AT 2:58 AM

hello..
select ph.po_header_id,segment1,po_line_id,item_id,quantity,authorization_status from
po_headers_all ph,po_lines_all pl where ph.po_header_id=pl.po_header_id and rownum<=10 and
authorization_status=:p_status

above mentioned query is my data query..i tried to fetch record for paramter column…in pdf
output,authorization_status values are coming same as the first column header_id…how to pass the
values of parameter column i pdf output

Reply

ARUNRAJ
NOVEMBER 18, 2015 AT 9:34 AM

Hi Nischal,

If my understanding is correct, you are trying to display the value of the parameter (":p_Status") passed by the user to the report.
Is this correct?

If so, the parameters will be part of the XML output. If you have defined the Data Template correctly, this value will be under .. tag.
If this is not what you looking for, please let me know more details and send me the Data Template and sample XML output to arunraj@quest4apps.com.

Thanks,
Arun

Reply

RIDDHI
APRIL 19, 2016 AT 7:03 AM

Hi can you please suggest that if we have too large data as the output of XML report and it is not getting exported in XLS file, as XLS having limit of only 64k in 97-2003 format.. can you please suggest how can we split query in XML data definition?

Reply

ARUNRAJ
APRIL 19, 2016 AT 8:58 AM

Hi Riddhi,

Do you want to limit the number pof records returned by the report (sql)? If so, you can add parameters to the report (xml data template).
Apologize if I didnt understand the question correctly.

If you still have questions or if you need more details, reply to the comment.

Thanks,

Arun

Reply

SUBHA
SEPTEMBER 13, 2016 AT 4:48 PM

I am trying your way of creating I have an empty report output with only header shows up

Reply

ARUNRAJ
SEPTEMBER 14, 2016 AT 4:29 PM

Hi Subha,

Is the XML Generated? Can you send me screen shots of the different configurations and send me XML data template? Email me at arunraj@quest4apps.com

Thanks
Arun

Reply

SHANKER
NOVEMBER 30, 2016 AT 4:09 AM

Hi

I tried your example step by step and I'm facing a issue.

Here is my LOG File.

Can u please help Me ...

+——————————————————————————+

General Ledger: Version : 12.0.0

Copyright (c) 1979, 1999, Oracle Corporation. All rights reserved.

XXBAP_DETAILS module: XX BAP Test Report

+——————————————————————————+

Current system time is 30-NOV-2016 14:27:23

+——————————————————————————+

XDO Data Engine Version No: 5.6.3

Resp: 50893

Org ID : 1307

Request ID: 19107660

All Parameters: P_PERIOD_NAME=MAR-16-16

Data Template Code: XXBAP_DETAILS

Data Template Application Short Name: SQLGL

Debug Flag: N

{P_PERIOD_NAME=MAR-16-16}

Calling XDO Data Engine...

java.lang.NullPointerException

at oracle.apps.xdo.oa.util.DataTemplate.getDataTemplate(DataTemplate.java:379)

at oracle.apps.xdo.oa.util.DataTemplate.(DataTemplate.java:226)

at oracle.apps.xdo.oa.cp.JCP4XDODataEngine.runProgram(JCP4XDODataEngine.java:283)

at oracle.apps.fnd.cp.request.Run.main(Run.java:157)

+——————————————————————————+

Start of log messages from FND_FILE

+——————————————————————————+

+——————————————————————————+

End of log messages from FND_FILE

+——————————————————————————+

+——————————————————————————+

Executing request completion options...

Output file size:

0

Finished executing request completion options.

+——————————————————————————————————+

Concurrent request completed

Current system time is 30-NOV-2016 14:27:37

+——————————————————————————————————+

Reply

ARUNRAJ
NOVEMBER 30, 2016 AT 9:50 AM

Hi Shanker,

Please send me the below to arunraj(at)quest4apps.com
– XML Data Template
– Screen shots of Data Definition, Data Template and Concurrent Program Definition

Thanks,
Arun

Reply

SAIKUMAR
JANUARY 3, 2018 AT 7:49 AM

hi,

For me also same error can u pls help me @ saikumar1260@gmail.com

Reply

ARUN RAJ
MARCH 12, 2018 AT 11:47 AM

The second image in the post has the xml data template.

Thanks,

Arun

Reply

PARIMALA
DECEMBER 12, 2016 AT 6:53 AM

Thanks for your work Arun

Reply

ARUNRAJ
DECEMBER 13, 2016 AT 11:20 AM

You are welcome!!

Reply

VENKAT
JANUARY 12, 2017 AT 6:00 AM

Hi your blog provided information is very impressive. I had got some doubt.I loaded the xml template into the xml sample it loaded successfully but when I click the Table/Form button It is not showing the data source contains columns...
Please can u check once.
I will send screenshot what I got.
Please provide email id..

Reply

ARUNRAJ
JANUARY 12, 2017 AT 9:11 AM

Hi Venkat,

Thanks for the kind words. Send me an email at arunraj@quest4apps.com. Also include the RTF template and the sample xml file.

Thanks,
Arun

Reply

PIX
JANUARY 19, 2017 AT 4:36 PM

I think you need to save the schema as type .xsd and not .xml

Reply

ARUNRAJ
JANUARY 19, 2017 AT 10:39 PM

Thanks. You are correct.
Venkat and I have been exchanging emails and I asked him to save the file as ".xsd" and use that.

Cheers,
Arun

Reply

HARISH
MAY 3, 2017 AT 1:16 PM

Hi Arun,

I tried copying XML data template and saved it as .xml but I get weird in the browser.None was right. Could you please help.

Reply

HARISH
MAY 3, 2017 AT 2:07 PM

Do we just need to write the XML Data template in MS word and save it as .xml??

Reply

ARUNRAJ
JUNE 8, 2017 AT 1:28 AM

Hi Harish,

I was on sabbatical. Do you still have the issue?

Thanks,
Arun

Reply

HARISH
JUNE 8, 2017 AT 10:20 AM

Hi Arun,

Done with it.Thanks for the response.

Reply

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