Relevant Codes
A Test Development Resource for HP QuickTest Professional.

Introduction to Parameterization with QTP’s Local DataTable

by Anshoo Arora on November 23, 2009

Parameterization is a process in which parameters, or variables are substituted for hard-coded values which help perform the same operations on the AUT with multiple sets of data. In other words, in QTP, parameterization helps automation developers test an application with different data from a single action (or multiple actions) through multiple iterations. Because the data changes each iteration, it must be stored in a data-pool, or in multiple variables. This data-pool can be QTP’s DataTable, an Excel Spreadsheet (external to QTP), Access DB, SQL Server, or
any database of your choice. It can also come from several Environment variables. This topic will describe parameterization with QTP’s DataTable.

The trick to successful parameterization is cycling around a process. For example, consider a flight booking/checkout process. You would first login to the application, find and select the flight of your choice, make the purchase, and in the end view the confirmation.

If you were to parameterize the above process, instead of ending your script at the confirmation page, you would end it at the Find Flight page. This is because, when the next iteration executes, it is already at the correct page which can enable the script to start all over again at the expected point. In other words, our process should look like below:

![Flowchart of a process]

Parameterization with DataTable

Before we start with the actual parameterization, we must first understand how data will be retrieved from the DataTable and the settings that we need to make in order to cover all the rows. In our example, we will test a few UserName and Passwords in the HP/Mercury’s Demo AUT.

Below, I have created 2 columns in the Local (Action1) DataTable- UserName & Password. You can create columns by simply double-clicking the Column heading:

<table>
<thead>
<tr>
<th>UserName</th>
<th>Password</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Create Columns in DataTable

Next, I will create 4 rows with different sets of data:
Add Data to Columns

Below is the syntax to retrieve data from the DataTable’s local sheet:

'If retrieving data from Local DataTable (Action1, Action2,.. ActionN)  
DataTable("ColumnName", dtLocalSheet)

'If retrieving data from Global DataTable (dtGlobalSheet)  
DataTable("ColumnName", dtGlobalSheet)

Therefore, we can now create 2 statements using the syntax above to retrieve our user name and password:

DataTable("UserName", dtLocalSheet)  
DataTable("Password", dtLocalSheet)

Before we create our script, we must first tell QTP to run the test from all rows in the Local DataTable. In Keyword view, right-click Action1 then click Action Call Properties:

Right-Click Action1

In the Run Tab of Action Call Properties window, select “Run on all rows”. A Dialog will popup mentioning what we discussed in the beginning of this post, about ending our iteration where the first step in our process begins.
Close the dialog, then click OK to save the settings we made under Action Call Properties. We are now ready to create our script which will take data from each row and test each UserName/Password combination. Below will be the steps in our process:

1. Launch application
2. Enter UserName/Password from DataTable and click Login
3. Verify if the Find Flights page appears
4. If Find Flights page appears, iteration passed.
5. Return to Home Page and start Step #2

'Step 1
If DataTable.LocalSheet.GetCurrentRow = 1 Then
    SystemUtil.Run "iexplore.exe", "http://newtours.demoaut.com"
End If

After executing the above code, or manually launching the application, execute the below steps:

'Parameterization Block:
With Browser("title:=Welcome: Mercury Tours", "index:=0")
    'Step 2
    'Parameter 1: UserName
    .WebEdit("name:=userName").Set Datatable("UserName", dtLocalSheet)
    'Parameter 2: Password
    .WebEdit("name:=password").Set Datatable("Password", dtLocalSheet)
    .Image("name:=login").Click
End With

'Step 3
'If Find a Flight page appears, go back to Home
If Browser("title:=Find a Flight: Mercury Tours:", "index:=0").Exist(10) Then
    'Step 4
    DataTable.LocalSheet.GetCurrentRow, 
    "UserName: " & Datatable("UserName", dtLocalSheet) & " is valid"
    Browser("title:=Find a Flight: Mercury Tours:", 
    "index:=0").Link("text:=Home").Click
Else
    'Step 5
    'Else, fail the iteration and return to the Home page
    Reporter.ReportEvent micFail, "Iteration " &
    DataTable.LocalSheet.GetCurrentRow, 
    "UserName: " & Datatable("UserName", dtLocalSheet) & " is invalid"
    Browser("title:=Sign-on: Mercury Tours", 
    "index:=0").Link("text:=Home").Click
End If

Once the above script ends its execution, your test results should look like this:

Execution Results
This topic covered a very high-level process of parameterization, but I hope it gives you a good idea how this process can be enhanced and adapted to your application. The next topic in Parameterization will cover Excel Spreadsheets and a few tricks that we can use for successfully driving different sets of data to our AUT.

If you have any questions, please ask them in the comments section. If your query is confidential, please use the Contact Form to send me an e-mail instead.
Hi Anshoo,
For iterating the DataTable values is it enough if we change the Data table iterations in Action Call Properties dialog ? or we need to do change the setting under the File —>Setting —>Run —> data table iteration ?
Why we have the data table iterations setting at 2 differnet places.
i am sure that the questions is very basic but still i want to understand the reason behind it ? kindly clarify
Thanks,
Ranjini

Reply

2 Anonymous November 24, 2009 at 5:33 am
hi ranjini
Setting under File-setting iteration is for particular test. It is global setting.
If we change in Action call property it is for Particular action not for entire test.So it is Local setting. Hence we have 2 sheets in Data table.

Reply

3 Ranjini November 24, 2009 at 11:29 am
Hi,
Thanks for the response.
If i need to parametrize my test both by Global and Local datatable sheet then Dt iterations setting has to be changed in both palces (Action properties and Test Setting)?
Thanks,
Ranjini

Reply

4 Anshoo Arora November 26, 2009 at 5:50 pm
Hi Ranjini,
The concept with the Global DataTable is that, the “entire test” will run as many number of iterations as there are in the Global Table if its option is set to “Run on All Rows”.
That means, if you have:
2 rows in Global Table (Run on All Rows Option Selected)
Action1: 4 Rows
Action2: 3 Rows

The total number of times the entire test will cycle is twice. That means, Action1 will have 8 iterations, and Action2 will have 6 iterations in all.
Also, the setting for dtGlobalSheet (GlobalTable) is in the test settings, whereas for the actions, its in the Action Call Properties.
5 Ranjini November 30, 2009 at 6:39 am
Hi Anoosha,
Very clear explanation. Thanks Verymuch
Regards,
Ranjini

6 Anshoo Arora November 30, 2009 at 1:18 pm
Thank you :)

7 Ranjini November 24, 2009 at 1:49 am
Hi Anshoo,
As you thought us “data-pool can be QTP’s DataTable, an Excel Spreadsheet (external to QTP)”
which is the best way to maintain/use it ? either QTP’s data table or external spreadsheet ?
Thanks,
Ranjini.

8 Anshoo Arora November 24, 2009 at 10:24 am
Good question, Ranjini.
I think its a matter of comfort level that makes people choose between the two. Which one are you the most comfortable with? If you use DataTable, you must be well versed with the methods of the DataTable. If you use an Excel spreadsheet, then you must be well versed with Excel’s COM Interface. That’s the usage component. I almost always use Excel, because I feel I can do more, and create my code with much better performance as I would with the DataTable.

Maintenance is subjective, here. You can use an Excel spreadsheet and import it to QTP on runtime. You can even copy-paste the changes you made to an Excel spreadsheet to the DataTable. Similarly, you can export a DataTable sheet to Excel. So, I think this one is a little hard to answer – I guess a good thing to say in regards to this is a person’s comfort-level between the two.

9 Mahesh Upadhyay December 4, 2009 at 1:26 am
Hi Anshoo,
I am unable to see the call action properties in my Keyword view, i am using QTP 10.0 evaluation version, can you please tell me the substitute.
Thanks
Mahesh
10 Anshoo Arora  December 8, 2009 at 9:48 pm
Hi Mahesh,

I am still in the process of downloading/installing QTP 10.0. As soon as its complete, I will check it and get back to you! This will also give me a chance to test the framework and find any defects with the new version – which seems quite buggy to me.

Reply

11 Anshoo Arora  December 16, 2009 at 2:39 pm
Mahesh,

Here is what you need to do to get to the Action’s Call Properties:

1. In Keyword View, Click on the Drop-Down list right below the test name. This list generally contains Test Flow, Reusable Actions -> Action1, Action2 etc.
2. Click on Test Flow
3. Now you will have all actions in a hierarchical format
4. Right-Click on any action.

Once you perform the above steps, you will see “Action Call Properties” whenever you right-click on any Action.

Reply

12 Mahesh Upadhyay December 17, 2009 at 5:47 am
Hi Anshoo,

Thanks for the help, i am able to see “Action Call Properties” in Keyboard View when i follow your given steps.

Thanks
Mahesh

Reply

13 Jayachandra January 8, 2010 at 1:04 am
HI Anshoo can you give me brief Description regarding datapool is it jst like a external file with which we are going to work? Can you be more precisely.. Thanks in advance..

Jayachandra

Reply

14 Anshoo Arora January 8, 2010 at 1:27 am
A Datapool can be anything that you pull data from for testing. This can be an Excel File, an Access/SQL database, a text file, XML file etc.

For example, RelevantCodes[1]One uses an Excel File as its data pool.

Reply

15 Jayachandra January 8, 2010 at 1:23 am
In the above example i got some doubt regarding after log of wid valid id and where is the next statment to run 2nd iteration.. thnxs.. anshoo

Reply
When we use the DataTable, we refer to the Action’s “Action Call Properties” to determine how many iterations we would like to be run. If you see this image from this article, you will notice that I have created a setting that will enable the action to make use of all the 4 rows.

Once we make that setting, the action will run the test on all 4 rows, thus, it will run 4 iterations for each username/password combination.

---

Jayachandra January 8, 2010 at 1:34 am

thnxs alot anshoo can you explain how to test the broken links .
thanks in advance

---

Jayachandra January 8, 2010 at 3:59 am

Hi Anshoo,

Can you post me how to work on Borken Links Please i m looking for some snippets.
Thanks in Advance
Th

---

Anshoo Arora January 8, 2010 at 10:02 am

I checked that solution, and its for QTP. What kind of solution you’re looking for? If its possible we can try to work something out.

---

Pradeep Babu. R January 30, 2010 at 10:39 am

Hi Anshoo..
All the documents here are useful to me. Thanks for everything..
Could you please direct me how to do the follwing,
I need to do one framework for my project. My basic need is to,
1) Update an excel sheet with the order number received from the last page of my application.
– Could you please give a sample script to get the value from GUI and update an excel sheet placed in some location.

2) I need to run the script from QC and I need to update the order number from the last page with PASS/FAIL status.
– Give a Basic idea how to connect, Run the particular test case in QC from QTP and a simple script/program to run and update the status into QC.

Since I am very new to QTP, I need a basic idea about this, I don’t have any mentor, So it is taking too much time to read and there is no one to help when any steps fail. I searched in many places and none of the website is clear and no screenshots or step by step procedure is available. If you help me in this it would be more thankful.. :-)

Thanks in advance :)

Reply

23 Anshoo Arora February 2, 2010 at 9:38 pm
Hi Pradeep,

I am currently working on an article that explains working with Excel, and I think that might help you for #1. I will try to release that article soon.

When running from QC, all you need to do is create a connection to it through QTP. Once that’s done, all the results will be automatically exported to QC once the test finishes its execution.

Reply

24 Pradeep Babu. R February 13, 2010 at 4:17 am
Hi Anshoo ! Could you please give some input on this. I am in need to do this as soon as possible.

Updating an excel sheet with the order number received from the last page of my application.
– Could you please give a sample script to get the value from GUI and update an excel sheet placed in some location.
– Give a Basic idea how to connect, Run the particular test case in QC from QTP and a simple script/program to run and update the status into QC.

Reply

25 Anshoo Arora February 14, 2010 at 2:00 am
Hi Pradeep,

To retrieve the data from any application, you can use .GetROProperty and to write to Excel, you can refer to this article which shows code snippets to retrieve data, but reverting the code can be used to write back to Excel. You can also find some code to write to Excel here: http://relevantcodes.com/descriptive-programming-dp-concepts-3-ordinal-identifiers-demo/#comment-2236

Not sure what you mean by #2. Once you upload the scripts to QC, you can add them to the Test Lab and execute them.
How can we pass “local datatable” parameters in Actions.

Hi Vartika,

Do you mean to retrieve stored data in the DataTable from within Actions? If yes, consider Action1 with its Local DataTable and the following fields:

<table>
<thead>
<tr>
<th>FirstName</th>
<th>LastName</th>
<th>Age</th>
<th>Gender</th>
<th>SSN</th>
</tr>
</thead>
<tbody>
<tr>
<td>John</td>
<td>Smith</td>
<td>20</td>
<td>Male</td>
<td>XX</td>
</tr>
<tr>
<td>Mary</td>
<td>Smith</td>
<td>22</td>
<td>Female</td>
<td>XX</td>
</tr>
</tbody>
</table>

To retrieve the data from one of the columns, you would use the following code:

```plaintext
sFirstName = DataTable("FirstName", dtLocalSheet)
sLastName = DataTable("LastName", dtLocalSheet)
iAge = DataTable("Age", dtLocalSheet)
sGender = DataTable("Gender", dtLocalSheet)
lngSSN = DataTable("SSN", dtLocalSheet)
```

Hello,


I have written a draft on this topic as well, and should be published in the coming few days..

Hi Anshoo,

I have created a new patient from the datatable and now I want the provider to log into the system and take the new patient and verify it and submit it through the application and then verify it that it has gone through to the website. If I have created multiple patients then it should store in a datatable and use those values to verify each patient and submit. Once submitted then another user can go the website and verify the patient have been successfully listed in the website. Do you know what is the best approach will be?

Thanks

Puneet
Puneet,

I think it depends how you are creating the new patients and verifying them. The 2 instances are described below:

**Creating and Verifying patients within the same iteration**

This is quite simple and can be done by the use of variables. Example:

```plaintext
sName = sName_FromTheApplicationUsingGetROProperty
iAge = iAge_FromTheApplicationUsingGetROProperty
```

and the variables `sName` and `iAge` can be used when testing for verification through the Provider.

**Creating all first. Verify all later.**

This is where you would need to store the patient information in a Table, either a DataTable or Excel spreadsheet. I generally use Excel Spreadsheets, but with the DataTable, the process is quite similar. You would need to create the columns in the DataTable that would contain the patient’s information.

For example, if the patient has the following information to be written to the DataTable, then appropriate columns would have to be created:

```
Name | Age | Alergies | Weight
```

When creating patients, information would be written to these fields:

```plaintext
DataTable("Name", dtLocalSheet) = 
Name_FromTheApplicationUsingGetROProperty
DataTable("Age", dtLocalSheet) = 
Age_FromTheApplicationUsingGetROProperty
```

and written to the instance where Provider is verifying information:

```plaintext
NameField = DataTable("Name", dtLocalSheet)
AgeField = DataTable("Age", dtLocalSheet)
```

---

**Reply**

32 Puneet February 19, 2010 at 4:02 pm

One thing I noticed is that I am getting the values from the datatable and if the value is selected from row 6 then the GetROProperty will store the value in the datatable in row 6 instead of from the beginning of the row and when I ran the following script then I will see it during the run time but otherwise I don’t see it after the run time. Below is I am trying to store SSN. Thanks for your help.

```plaintext
For x = 1 to maxRows
datatable.SetCurrentRow(ssnRowNum)
SwfWindow(“HA – You are currently”).SwfEdit(“txtNewSSN”).Type DataTable(“SSN”, dtGlobalSheet)
enterSSN = SwfWindow(“HA – You are currently”).SwfEdit(“txtNewSSN”).GetROProperty(“text”)
SwfWindow(“HA – You are currently”).SwfObject(“btnSSN”).Click 6,10
If SwfWindow(“ePDHA – You are currently”).Dialog(“HA – [Confirm]_2”).Exist Then SwfWindow(“HA – You are currently”).Dialog(“HA – [Confirm]_2”).WinButton(“OK”).Click
```
ssnRowNum = ssnRowNum + 1
End if
If SwfWindow(“HA – You are currently”).SwfEdit(“txtNewSSN”).GetVisibleText = “xxx-xx-xxxx” Then
Exit for
End If
next
num = enterSSN
SwfWindow(“HA – You are currently”).SwfEdit(“txtVerifySSN”).Set num
SwfWindow(“HA – You are currently”).SwfObject(“btnVerifySSN”).FireEvent “Click”
DataTable(“SSN_VERIFY”, dtLocalSheet) = enterSSN

Reply
33 Anshoo Arora February 24, 2010 at 8:09 am
Hi Puneet,

Your observation is correct, but don’t you think it will be easier to correspond the test-time and run-time data because they both land on the same rows? I will be confused if the data for Row 6 ends up on some other DataTable row..

but otherwise I don’t see it after the run time.

It should be in the Run Time DataTable when you open the Results? Is it not there?

I saw your code, and it seems correct as long as the value ssnRowNum points to the correct value of the DataTable..

Reply
34 Puneet February 19, 2010 at 4:07 pm

I have another issue and that at the end of the application I am trying to move over the patient data to a website, before I can do it I have to change the website URL in the notepad which is located in the system.util unde the C: drive and I try to record this but I was not able to record it where it opens the file and change the URL in the notepad and save it. Am I suppose to do something different before recording?

Thanks
Puneet

Reply
35 Anshoo Arora February 24, 2010 at 8:12 am

Puneet,

Using the FileSystemObject (FSO) Object would be a better approach in this situation as compared to record and playback. I would recommend you to download all chapters of Scripting QuickTest Professional and read Chapter 14 for FSO. Good luck :)

Reply
36 Puneet February 22, 2010 at 12:20 am

Hi Anshoo,
Thanks for the code. I was able to add this to my code and use the Excel sheet to store my values. I am trying to open this webpage but I am unable to do you with this code. Any to program the QTP to click on the warning message?

```
```

Thanks
Puneet

---

37 Anshoo Arora February 24, 2010 at 8:17 am
Puneet,
Are you trying to navigate ahead from a page like this one: [http://helpdesk.ugent.be/img/cert_error1.png](http://helpdesk.ugent.be/img/cert_error1.png)
If yes, then I suppose the following code should work:

```
Browser("title:=Certificate Error.*").Link("innertext:=Continue.*").Click
```

---

38 Puneet February 22, 2010 at 10:45 am
Hi Anshoo,
I have increment SSN by 1, is there any way to force QTP not to wirite it to the results. Because if I have increment by 1 10+ times then it is odd to have too much info in the test results.

Thanks
Puneet

---

39 Anshoo Arora February 24, 2010 at 8:23 am
Puneet,
I think it depends how you are doing this. Are you using a `Reporter.ReportEvent` statement, or an Output CheckPoint or some other technique?

---

40 Puneet February 22, 2010 at 10:47 am
Hi Anshoo,
I am unable to get QTP recognize the security and click on the link in the browser.

```
Browser("Certificate Error: Navigation_2").Page("Certificate Error: Navigation").Link("Continue to this website").Click
```

Thanks
Puneet

---

41 Anshoo Arora February 24, 2010 at 8:24 am
Puneet,
You can try the below code:

```javascript
Browser("title:=Certificate Error.*").Link("innertext:=Continue.*").Click
```

42 Raja March 30, 2010 at 8:04 pm

Hi Guys,

I am new to this forum on Relevantcodes and trying to learn QTP tool. I was trying to automate Yahoo Login page where my data is in LocalSheet (DataTable.GetSheet("Action1").GetCurrentRow). For i = 1 to rowcount

```javascript
DataTable.GetSheet("Action1").SetNextRow
```  

```javascript
Next
```

```javascript
a = DataTable("Yahoo ID", dtLocalSheet)
b = DataTable("Password", dtLocalSheet)
```

any help will be greatly appreciated.

Thanks again for your help..

Best,

Raja

43 Anshoo Arora April 1, 2010 at 7:37 pm

Hi Raja,

Welcome to Relevant Codes! :)

I think what you have is absolutely correct, but you may be missing the Action settings to iterate through all Rows. To do that:

1. Open QTP -> Go to Keyword View
2. Under the Test Flow List -> If Action1 is selected -> Select Test Flow
3. Right Click on Action1
4. Click Action Call Properties
5. Select Run On All Rows

and you’re done!

44 andreas April 9, 2010 at 3:27 am

Hi Anshoo

I’m working with QTP for automatisize an Siebel-Application. In my test, i have an action (action1) wich is parametrized on an local sheet with 10 rows. Inside action1 i want to use another action (action2), wich i want also paramtrice (for example with 2 rules). Inside of action2 i want to use a third action (action3) with the parametrizing for
example for 3 times. As result, the procedure should work like this:

action1 (row 1)
action2 (row 1)
action3 (3-times for row 1 till 3)
action2 (row 2)
action3 (3-times for row 1 till 3)
action1 (row 2)
action2 (row 1)
action3 (3-times for row 1 till 3)
action2 (row 2)
action3 (3-times for row 1 till 3)
action1 (row 3)
...

How can I do this? Is it possible to interleave actions?

For an answer I would be very pleased.
Andreas

45 Anonymous April 15, 2010 at 3:02 am

Hi Anshoo,

could you plz explain me, why is that the test has run 4 times (above example) with the same set of data like

1st time
mercury mercury
anshoo test123
test test
jhondoe mypassword

2nd time
mercury mercury
anshoo test123
test test
jhondoe mypassword

3rd time
mercury mercury
anshoo test123
test test
jhondoe mypassword

4th time
mercury mercury
anshoo test123
test test
jhondoe mypassword

what is the purpose behind it, as we are not creating any new set of data (even we are changing any combination – in between the test)
plz explain me i am blank about this…
Hi Guys,
I am back with another question on QTP and need help here… My application which I am trying to automate is a 3rd party app deals with Space Management for associates. In this app we have a Javascript form that opens up after successful login and there are bunch of Text/Edit Box (Requested For) and drop down to select the data.

A little information about the functionality I am trying to automate using QTP. There’s an Edit Box (Requested For) accepts user’s LAST NAME, FAST NAME. Next to this box is a small ‘lens’ icon (Click to Search) that populates user records based on user selection in Edit Box… For example… if user enters ‘jones’ it will display all the records for the user having LAST NAME starting with ‘jones’, FIRST NAME. Some of the columns in the Search results are Select (LastName, FirstName), Employee Number, Phone # etc… user’s name (lastname,first name) is a hyperlink — Link(“Paddon, Michael”).Click

I need help in writing a QTP function that will automatically pick any random record or at least first record from Search Results…

Here’s how I started:

Dim myString
myString = “”
‘– some code that will select any random name from Search results and replace hard coded name – Link(“Paddon, ‘Michael”).Click
Browser(“MyQualnet”).Page(“Request Console_2”).Link(“Paddon, Michael”).Click ‘ name is selected from the search results and is hard coded. I wanted to select this name randomly from Search results or at least the first record.

I am totally lost and need help in writing this function.
Any help in this regard will be appreciated.

thanks,
Raja
Now i am able to create a new user everytime, However there are certain cases where i have to login with the credentials of the already created user. hence i need to store these unique values in another datatable(Global) from where i can utilize them to login. Is there a way to do this. I know i can store them at runtime in another datatable, but its not of much use as it does not get stored permanantly and gets stored only at runtime.

Is there a method to pick these value from one datatable, append the timestamp to it and store it in another datatable?
Also if i am performing say 2 iterations then i want to store these values in different rows of the other datatable so that i can use them for other test cases.

Please reply soon…
Thanks
Vishal Jhaveri

Reply
48 Anshoo Arora May 12, 2010 at 10:07 am
Certainly possible. :)
This is the only extra code required:

sUserName = DataTable("Username", dtLocalSheet)+ "" & UniqueValue1
DataTable("Username", dtLocalSheet) = sUserName

Also, the values will only be viewed in the Runtime DataTable, not the design time.
Not sure how the increments are running, but you *may* be required to use the following statement to enter the data in a new row each time:
DataTable.LocalSheet.SetNextRow

Reply
51 Anonymous May 13, 2010 at 3:54 am
Hi Anshoo,
I want to add data in a new row/column of the same worksheet so that it do not overwrite the previous data present in the same worksheet.
Thanks for yours previous response.
To store data to a new Excel column each time, we can retrieve the number of Used Columns in that particular Excel sheet, and append to the unused columns. That means, for each new iteration, you would need to retrieve the new column to which the data will be written to:

```vba
Set xlApp = CreateObject("Excel.Application")
Set xlBook = xlApp.WorkBooks.Open("C:\Test.xls")
Set xlSheet = xlBook.WorkSheets("Sheet1")

'Code that will retrieve the new column:
iNewColumn = xlSheet.UsedRange.Columns.Count + 1

xlBook.Close
xlApp.Quit
Set xlSheet = Nothing
Set xlBook = Nothing
Set xlApp = Nothing
```

Your code just overwriting the previous data. It is just overwriting the previous data.

```vba
Dim xlSheet,xlBook, xlApp,a,CustomerName,Address,datatable
Const ForAppending = 8
const TristateTrue=-1
file_location = "F:\Test.xls"
'———-'For Wirting in Excel Sheet'
Set xlApp = CreateObject("Excel.Application")
Set xlBook = xlApp.WorkBooks.Open("F:\Test.xls")
Set xlSheet = xlBook.WorkSheets("Sheet1")
CountOfRows=Browser("Meghalaya Directory Search" ).Page("Meghalaya Directory Search_3" ).WebTable("DataTable" ).WebTable("Table" ).RowCount
For i = 1 To CountOfRows-1
    CustomerName=Browser("Meghalaya Directory Search" ).Page("Meghalaya Directory Search_3" ).WebTable("DataTable" ).WebTable("Table" ).GetCellData(i,3)
    Address=Browser("Meghalaya Directory Search" ).Page("Meghalaya Directory Search_3" ).WebTable("DataTable" ).WebTable("Table" ).GetCellData(i,4)
    xlSheet.Rows(i).Columns(1).Value =CustomerName
    xlSheet.Rows(i).Columns(2).Value =Address
    iNewcolumn=xlSheet.UsedRange.Columns.Count + 1
Next
```
NOTE: For every link there is a datatable whose data I have fetch and write on to the excel.

The code given by you is not working from my side so please tell the correct way or if have done any mistake in the above mentioned code then please let me know.

Thanks,

Reply

54 Anu May 18, 2010 at 12:13 am

Hi Anshoo,

Could you please reply my query............
As my deadline is very nearby.
Hope u can understand.

Thanks In Advance.

Regards,

Anu

Reply

55 Anshoo Arora May 18, 2010 at 8:09 am

You will also have to increment the columns as they’re used as static values:

Dim xlSheet, xlBook, xlApp, a, CustomerName, Address, datatable
Const ForAppending = 8
Const TristateTrue = -1
file_location = "F:\Test.xls"
Dim iCol : iCol = 0

'——-'For Writing in Excel Sheet'
Set xlApp = CreateObject("Excel.Application")
Set xlBook = xlApp.WorkBooks.Open("F:\Test.xls")
Set xlSheet = xlBook.WorkSheets("Sheet1")

CountOfRows=Browser("Meghalaya Directory Search").Page("Meghalaya Directory Search_3").WebTable("DataTable").WebTable("Table").RowCount
iCol = iCol + 1

For i = 1 To CountOfRows
    CustomerName=Browser("Meghalaya Directory Search").Page("Meghalaya Directory Search_3").WebTable("DataTable").WebTable("Table").GetCellData(i,3)
    Address=Browser("Meghalaya Directory Search").Page("Meghalaya Directory Search_3").WebTable("DataTable").WebTable("Table").GetCellData(i,4)
    xlSheet.Rows(i).Columns(iCol).Value = CustomerName
xlSheet.Rows(i).Columns(iCol + 1).Value = Address
iNewcolumn=xlSheet.UsedRange.Columns.Count + 1
Next
'xlBook.Save
'xlBook.Close
'xlApp.Quit

Browser("Meghalaya Directory Search").Page("Meghalaya Directory Search_3").WebTable("LinkTable").Link("2").Click

Reply

56 Anu May 19, 2010 at 3:31 am
Hi Anshoo,

Thnx for your reply………………………………

I had tried the code given by you but when i click on the next link it overrides the previous data.

I have parameterized the below link for navigating to the other web page:
Browser("Meghalaya Directory Search").Page("Meghalaya Directory Search_3").WebTable("LinkTable").Link("2").Click

Here i have parameterized the Link("2") that is in the object repository.
When i run the script then it automatically goes to the next link and write data to excel sheet by overwriting the previous data.

My problem is that-"I want data should not overwrite instead it should get append same as happen if we write data in txt"

Hope u have understand my problem…………………

Regards,
Anu

Reply

57 Anonymous May 23, 2010 at 10:55 pm
Hi Anshoo,

Could you please look at out my query mentioned above.
Waiting for your response.
Thanks in advance………………………………

Regards
Anu

Reply

58 Anonymous May 26, 2010 at 12:12 am
Hi Anshoo,

Hope u r doing well.
Could you please look out my query so that i can proceed further.
I will be highly thankful for your support.
Waiting for reply………………

Regards,
Anu
Anshoo Arora  May 26, 2010 at 8:48 am

Its because you are not incrementing the columns when writing to Excel. You have static column numbers in your code:

```excel
xlSheet.Rows(i).Columns(iCol + i).Value =CustomerName
xlSheet.Rows(i).Columns(iCol + i + 1).Value =Address
```

You must change these column numbers to increments:

```vbnet
For i = 1 To CountOfRows-1
    iCol = iCol + 1
    CustomerName=Browser("Meghalaya Directory Search").Page("Meghalaya Directory Search_3?").WebTable("DataTable").WebTable("Table").GetCellData(i,3)
    Address=Browser("Meghalaya Directory Search").Page("Meghalaya Directory Search_3?").WebTable("DataTable").WebTable("Table").GetCellData(i,4)
    xlSheet.Rows(i).Columns(iCol).Value =CustomerName
    xlSheet.Rows(i).Columns(iCol + 1).Value =Address
    iNewcolumn=xlSheet.UsedRange.Columns.Count + 1
Next
```

Anonymous  June 1, 2010 at 11:03 pm

Hi Anshoo,

It works from my end..................
Thnks for yours valuable support........

Regards,
Anu

Vishal Jhaveri  May 13, 2010 at 7:46 am

Hi Anshoo,

Thanks for your prompt reply, i tried using your method however i want to iterate through the Local datatable...Lets say there are 2 rows in the local datatable.. So i want to iterate through the first row collect the data, append timestamp to it and write it into the Global datatable. So during first iteration i collect the values from the local datatable add the timestamp and write it on the first row of the Global datatable. then i iterate through the second row do the same procedure and write the values in the 2nd row of the Global datatable.

I tried using this method:

```vbnet
DateTimeStamp()
UniqueValue1= Environment.Value("TimeStamp")
RowCount = DataTable.GetSheet("Local").GetRowCount
i = 1
For i = 1 to RowCount
    DataTable.LocalSheet.SetCurrentRow(i)
sEmailAddress = DataTable.LocalSheet.GetParameter("EmailAddress").Value
```
sEmailAddress = DataTable.GlobalSheet.AddParameter("EmailAddress_freelancer", "" & sEmailAddress ).Name
sUserName = DataTable.LocalSheet.GetParameter("Username").Value + "" & sUniqueValue1
sUserName = DataTable.GlobalSheet.AddParameter("Username_freelancer", "" & sUserName ).Name
sPassword = DataTable.LocalSheet.GetParameter("Password").Value
sPassword = DataTable.GlobalSheet.AddParameter("Password_freelancer", "" & sPassword ).Name
sTenancy = DataTable.LocalSheet.GetParameter("Tenancy").Value + "" & sUniqueValue1
sTenancy = DataTable.GlobalSheet.AddParameter("Tenancy_freelancer", "" & sTenancy ).Name
Next

However in the Global sheet all the values are written in the same row..
Can you please suggest a way to do it...
Thanks,
Vishal

Reply

62 Anshoo Arora May 14, 2010 at 9:46 am

You can increment the row of the Global Sheet the same way its done for the Local Sheet:
DataTable.GlobalSheet.SetCurrentRow(i)

Reply

63 raja May 29, 2010 at 12:40 am

Hi Anshoo,

I have one doubt on Actions and their corresponding local data sheets. As we always specifies as each action will have one local data sheet with it. In books or articles i have read as local data sheet data available to corresponding action only (Ex: Action1 local data sheet data available for Action1 only ). But we can able to access Action1 local data sheet data in Action2. Can you please clarify me on this?

Reply

64 raja June 7, 2010 at 11:11 pm

Can you please answer my above question?

Reply

65 Anshoo Arora June 8, 2010 at 7:36 am

Hi Raja,

You can retrieve the data of Action2 from Action1. Suppose you have a column named ColA in Action2 and you would like to retrieve its value in Action1. You can use the following code in Action1 to do so:
DataTable.GetSheet(3).SetCurrentRow 1
MsgBox DataTable.Value("ColA", 3)

Reply
Hi Anshoo,

Thanks for the reply.. So we can able to access one local data table value in any action.

Thanks,
Rajasekhar

Reply

I’m facing an issue with drop down value change in Weblist.

For a drop down, earlier the application used to have 1) blank value 2) Apple 3) Banana 4) Cookie and 5) Dessert.

Then there was a slight change made to the order and value in the drop down:
1) blank value 2) Apple 3) Banana 4) Cookie and 5) Dairy

The datatable is set to select the value ‘Banana’.

While running the script and msgboxing the value from the datatable, it reads ‘Dessert’ – Script fails as there is no such value.

If I run the script only from that step, msgboxing the value from the datatable reads ‘Banana’ which is the desired value.

Any idea on what could cause this issue. Any suggestions are most appreciated.

Chandrakala
Cleveland, USA

Reply

Not sure why you’re seeing this behavior. If your script is written to select ‘Banana’, I don’t see why it would select any other value unless you’re doing it through a custom function. Can you post your function or your script here?

Reply

Hi Anshoo ,

My query is : I have data in 3 columns in my Global sheet , first row contains TC (which contains numbers like 1, 2…) and second column contains functions fn1,fn2… and 3rd column contains some data .

Now i have to extract data from sheet and when TC=1 execute fn1, when tc =2 execute fn2 and soon .

can u help me on this

thanks
Gayathri

Reply

Gayathri

Reply

Gayathri,
Most of this can be done through conditional statements. For example, you can use the Execute statement to execute a keyword within QTP:

```
If DataTable("TC", dtLocalSheet) <> "" Then
    Execute DataTable("Function", dtLocalSheet)
End If
```


Similarly, you can extend the above approach and add another statement where the data will also be written to your application. I hope this helps. If you have any questions, please feel free to post them here :)
Could you please guide me, what all required to start designing Keyword framework. Please give me some idea, so based on that i can ask you few question.

Reply

75 Anshoo Arora August 8, 2010 at 7:50 pm

Deepak,

Please see here.

Reply

Cancel reply

Leave a Comment

Top of Form

Name

E-mail

Website

Notify me of followup comments via e-mail

Submit

Bottom of Form

{ 1 trackback }

• QTP: Parameterization with Excel | Relevant Codes by Anshoo Arora

Previous post: Updates: Upcoming Automation Framework

Next post: QTP: Working With Multiple Windows Applications

• Default Widget

This is Sidebar 1. You can edit the content that appears here by visiting your Widgets panel and modifying the current widgets in Sidebar 1. Or, if you want to be a true ninja, you can add your own content to this sidebar by using the appropriate hooks.

• Default Widget
This is Sidebar 2. You can edit the content that appears here by visiting your Widgets panel and modifying the current widgets in Sidebar 2. Or, if you want to be a true ninja, you can add your own content to this sidebar by using the appropriate hooks.

- **Tags**


- **Recent Comments**

  - deepak on [VBScript: Compare 2 Excel Files](#)
  - Mahesh Upadhyay on [Updates: Upcoming Automation Framework](#)
  - Adwitha on [QTP: Parameterization with Excel](#)
  - shahvali on [QTP: Closing Multiple Browser Windows](#)
  - Kumar on [QTP: Parameterization with Excel](#)
  - Rajendra on [QTP: Understanding the Description Object (Description.Create)](#)
  - vidya on [QTP: Accessing Custom DLL Methods Through DOTNetFactory](#)
  - Animesh on [QTP: Synchronization for AJAX Applications](#)
  - Anshoo Arora on [QTP: Accessing Custom DLL Methods Through DOTNetFactory](#)

- **Subscribe**

  - Hello! We're always posting interesting articles on Relevant Codes. Why not subscribe so you don't miss out?
    - RSS Feed
    - Subscribe by Email

Copyright © 2010 Relevant Codes (by Anshoo Arora). All rights reserved. Powered by [WordPress](https://wordpress.org) and [Thesis](https://thesiswp.com)