



Advanced UFT 12 for Test Engineers Cookbook

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Retrieving data from a DataTable

`DataTable` is a UFT object that acts as a wrapper to an MS Excel file and its scope is global. This means that it can be accessed from any action within a test, as well as from function libraries that were attached to the test. When you create a new test or open an existing UFT test you will notice that the `DataTable` pane will always show a global datasheet and a local one for each existing action within the test.

Getting ready

Prior to getting started with this recipe, please ensure that you have followed the *Creating a DataTable parameter* recipe.

How to do it...

We will retrieve the value of a `DataTable` parameter, namely, `LocalParam1`, from the `Action1` local sheet with the following code written in the code editor inside `Action1`:

```
Dim MyLocalParam

MyLocalParam = DataTable.Value("LocalParam1", dtLocalSheet)
Print MyLocalParam
```

Similarly, the following code snippet shows how to retrieve the value of a `DataTable` parameter from the test global sheet:

```
Dim MyGlobalParam
MyGlobalParam = DataTable("GlobalParam1", dtGlobalSheet)
'We can omit the explicit .Value property as given above since it is the
Print MyGlobalParam
MyGlobalParam = DataTable("GlobalParam1")
'We can omit the second parameter as given above (dtGlobalSheet) since th
Print MyGlobalParam
```

Tip

Downloading the example code

You can download the example code files for all Packt books you have purchased from your account at <http://www.packtpub.com> (<http://www.packtpub.com>). If you purchased this book elsewhere, you can visit <http://www.packtpub.com/support> (<http://www.packtpub.com/support>) and register to have the files e-mailed directly to you.

The result of this code in UFT's console is as follows:



Of course, we need to ensure beforehand that the parameter exists in the `DataTable` class as outlined in the previous *Creating a DataTable parameter* recipe.

How it works...

By using the `DataTable.Value` property we are referring to the column by the parameter name in the underlying Excel worksheet (be it global or local):

```
MyLocalParam = DataTable.Value("LocalParam1", dtLocalSheet)
MyGlobalParam = DataTable("GlobalParam1", dtGlobalSheet)
```

As we entered just a single value into the datasheet, the command retrieves just the value in the first row. If multiple values were entered and action iterations were set to run on all rows, then it would have retrieved the values from each row with each iteration.

Note

The `dtLocalSheet` constant always refers to the datasheet by the name of the current action. The `dtGlobalSheet` constant always refers to the global datasheet and can be used in any action.

