

Exercise 7 - Project overview by month (it counts the issues by month) using macros on an Excel

In this exercise, you'll learn how to populate the Issue time taking from some issues with pivot tables on an Xporter-generated file.

This template is going to have four sheets.

Let's go to create the first sheet whose name can be "Issues", If you want to display the header you must create the Header using a table with 7 columns and 1 row:

Key	Issue Type	Priority	Summary	Status	Date	Month
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Since all the table contents below the Header are dynamic, firstly we need to create a single row Table to be the Header, and below it, add the **#{for i=JQLIssuesCount|clause=project = ACD order by Key desc}** statement, so the Header is printed only one time.

On this case is a template on Excel, so don't forget the note below.



Using an XLS template, please take note that to define an iteration for multiple columns, you need to merge a row of columns and define the **#{for i=JQLIssuesCount...}** inside those merged cells. The same thing should be made to define the **#{end}** of the same iteration. All content between the **#{for i=JQLIssuesCount...}** definition and the **#{end}** will be duplicated for each iteration.

With that done, create another row table where the Issue Comments will be populated:

\${JQLIssues[i].Key}	\${JQLIssues[i].IssueTypeName}	\${JQLIssues[i].Priority}	\${JQLIssues[i].Summary}	\${JQLIssues[i].Status}	\${JQLIssues[i].Created}	\${JQLIssues[i].Created}
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Finally close the statement using the mapping **#{end}**.

We are going to create a pivot table.



A pivot table allows you to extract the significance from a large, detailed dataset.

1. To create a pivot table click on the first cell inside the header.
2. On the *Insert tab*, click **PivotTable**
3. A Dialog box appears. Excel automatically selects the data for you. The default location for a new pivot table is the New Worksheet.
4. Click **ok**. The second sheet was created. Rename it to "Chart by Month".

Now, The PivotTable fields list appears.

1. The Field *Month* we are going to drag on the **Rows**.
2. The *Key* we are going to drag on the **Values**.

The configuration of the pivot table is done but we are going to add a chart.

1. Select all pivot table.
2. On the *Insert tab*, click **charts**. You can pick up all chart. In this case, I am going to choose the **2-D Column**.
3. The chart appears on the sheet.

We are going to use the **Macros** to set up the Month field.

Go to *View -> Macros -> View Macros*. In *Macros in:* select *This Workbook*. Name the macro "**MonthFormat**" and click *Create*.

A new window appears to insert the VBA code. In the created module, insert the following code:

```
Sub MonthFormat()  
    FinalRow = Cells(Rows.Count, 1).End(xlUp).Row  
    For i = 3 To FinalRow  
        cleanDate = Left(Worksheets("Issues").Cells(i, "G").Value, 10)  
        Worksheets("Issues").Cells(i, "G").Value = "" + Format(cleanDate, "MMMM-yyyy")  
    Next i  
    Set pvtTable = Worksheets("Chart by Month").Range("A4").PivotTable  
    pvtTable.RefreshTable  
End Sub
```

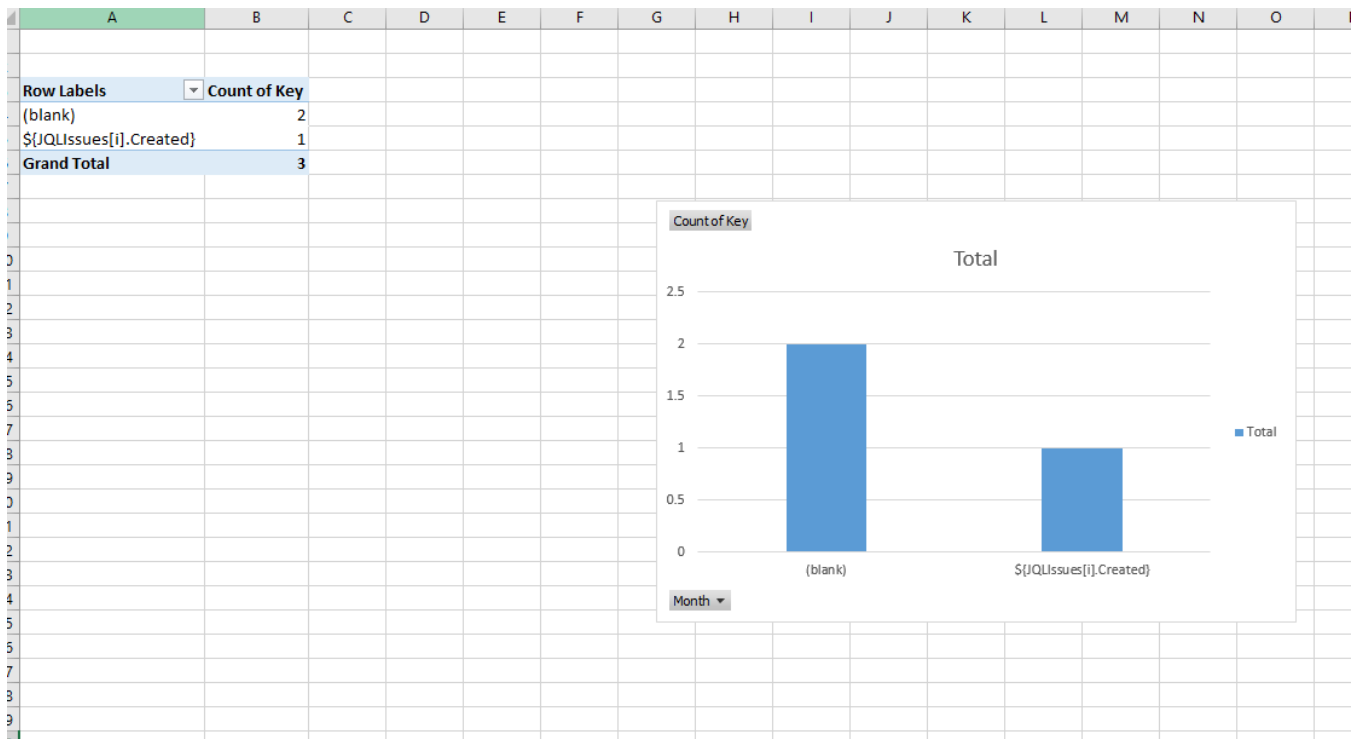


When you have a template that only contains a JQL query or a JQL iteration, as in this case, you can export it straight from the menu Xporter Reports.

After exporting, you should go to *View -> Macros -> View Macros* and run the **MonthFormat** macro.

Below there is a sample of how the mappings will be displayed in an Excel template:


[illegible]



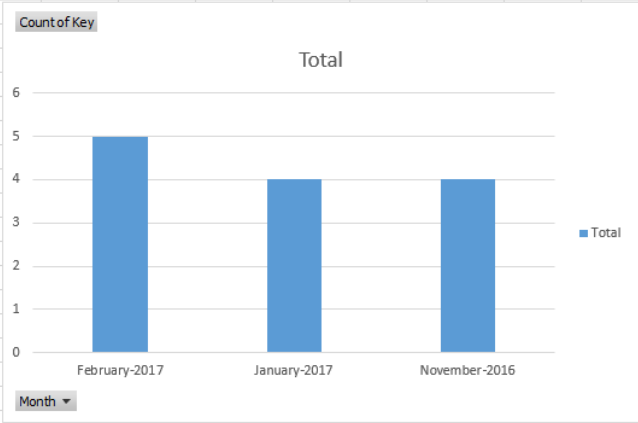
```
Xporter Complex Academy Template n° 7.xlsm - Module1 (Code)
(General)
MonthFormat



Sub MonthFormat()
    FinalRow = Cells(Rows.Count, 1).End(xlUp).Row
    For i = 3 To FinalRow
        cleanDate = Left(Worksheets("Issues").Cells(i, "G").Value, 10)
        Worksheets("Issues").Cells(i, "G").Value = "" + Format(cleanDate, "MM-YY")
    Next i
    Set pvtTable = Worksheets("Chart by Month").Range("A4").PivotTable
    pvtTable.RefreshTable
End Sub
```

Below there is a sample of how the generated file will be populated:


	A	B	C	D	E	F	G	H
1								
2	Key	Issue Type	Priority	Summary	Status	Date	Month	
3	ACD-13	Story	Medium	Accusantium atque impedit a	Open	2017-02-23T09:59:12Z	Eurc February-2017	
4	ACD-12	Story	Medium	Enim aspernatur molestiae et	Open	2017-02-23T09:54:35Z	Eurc February-2017	
5	ACD-11	Story	Medium	Autem magnam recusandae	Open	2017-02-23T09:54:27Z	Eurc February-2017	
6	ACD-10	Epic	Medium	Possimus deserunt non in sit	Open	2017-02-23T09:54:06Z	Eurc February-2017	
7	ACD-9	Epic	Medium	Quidem vel ex consequatur q	Open	2017-02-23T09:53:41Z	Eurc February-2017	
8	ACD-8	Sub Test Execution	Medium	Fuga Mollit debitis id cupidat	Open	2017-01-05T11:05:37Z	Eurc January-2017	
9	ACD-7	Sub Test Execution	Medium	Molestias nesciunt et sunt eai	Open	2017-01-05T11:05:16Z	Eurc January-2017	
10	ACD-6	Story	Medium	Commodi autem saepe bland	Open	2017-01-05T11:04:41Z	Eurc January-2017	
11	ACD-5	Story	Medium	Numquam Nam ratione volup	In Progress	2017-01-03T09:47:29Z	Eurc January-2017	
12	ACD-4	Story	Medium	Blanditiis ea nostrum quae m	In Progress	2016-11-29T15:37:19Z	Eurc November-2016	
13	ACD-3	Bug	Medium	Laborum Rerum non proident	In Progress	2016-11-29T15:37:08Z	Eurc November-2016	
14	ACD-2	Story	Medium	Pariatur Explicabo Consectetu	Closed	2016-11-29T15:36:51Z	Eurc November-2016	
15	ACD-1	Bug	High	Aut quis autem facilis ea num	Resolved	2016-11-29T10:31:19Z	Eurc November-2016	
16								
17								
18								
19								

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3	Row Labels	Count of Key														
4	February-2017	5														
5	January-2017	4														
6	November-2016	4														
7	Grand Total	13														
8																
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Thank you in advance.

Enjoy our product. 

Here's the **Exercise 7** related files:

File	Description
Exercise7Template	Exercise 7 Sample Template file
Exercise7Generated	Exercise 7 Sample generated file