

# BIRT Guide for Transposing **data** **from rows to columns**

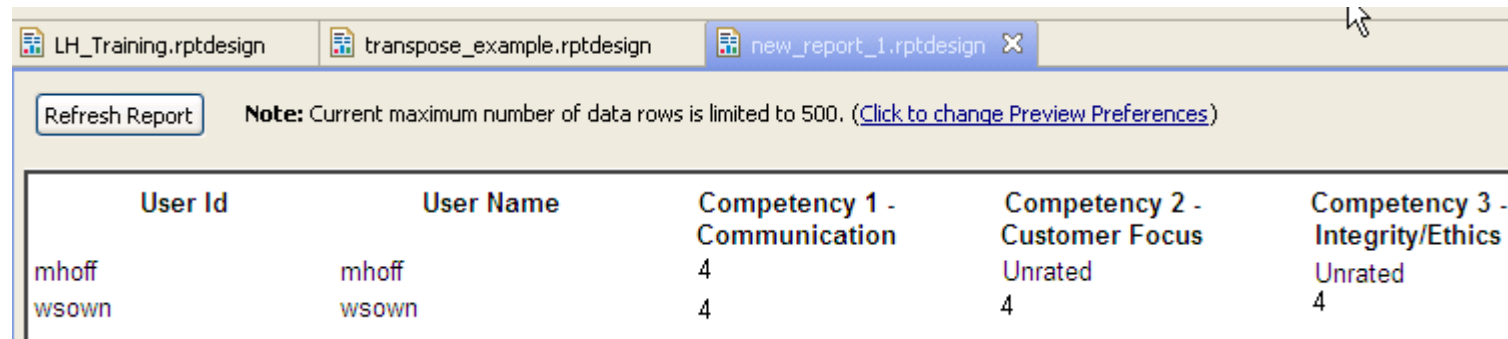
PUBLIC

# Desired Output

Ad Hoc / Report - Table output is one row per competency as this is how the data is stored in the underlying tables:

Subject Username	Competency Id	Competency Name	Competency Official Rating
mhoff	4	Communication	4
mhoff	7	Customer Focus	Unrated
mhoff	14	Integrity/Ethics	Unrated
mhoff	28	People Development	Unrated
wsown	28	People Development	3
wsown	4	Communication	4
wsown	14	Integrity/Ethics	4
wsown	7	Customer Focus	4

However the desired output is one row per employee/subject & one column per competency:



The screenshot shows the SAP Ad Hoc Reporting interface. At the top, there are three tabs: 'LH\_Training.rptdesign', 'transpose\_example.rptdesign', and 'new\_report\_1.rptdesign'. Below the tabs is a 'Refresh Report' button and a note: 'Note: Current maximum number of data rows is limited to 500. (Click to change Preview Preferences)'. The main table displays data for two users, mhoff and wsown, across three competencies: Communication, Customer Focus, and Integrity/Ethics.

User Id	User Name	Competency 1 - Communication	Competency 2 - Customer Focus	Competency 3 - Integrity/Ethics
mhoff	mhoff	4	Unrated	Unrated
wsown	wsown	4	4	4

# Define your Ad Hoc / Table Report

- In this example we will be using Competency data from the Performance module

## Editing Performance Management report : Transpose Data Example

[Back to Ad Hoc Reports List](#)

General InfoPeopleData Sets**Columns**Filters

Select Columns

Sort

Group By

Rearrange Columns

Save

Cancel

Data Sets ▾

Generate

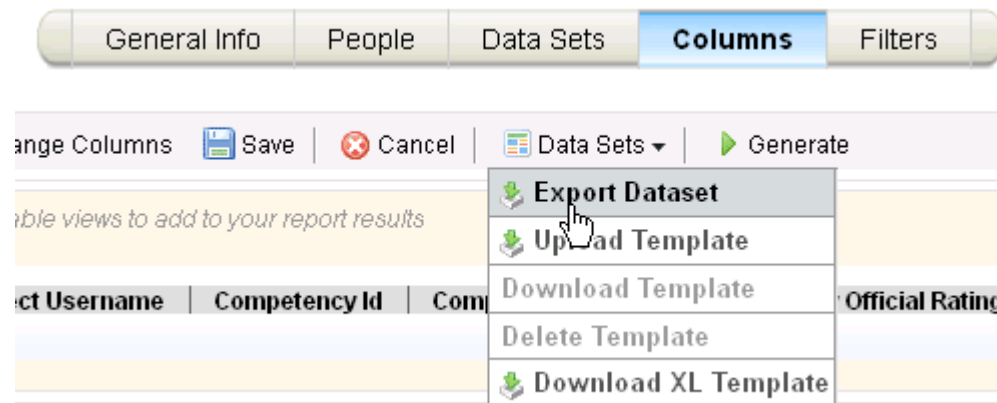
**Edit Columns** *Select the columns from available table views to add to your report results*

Columns (5)

Subject User Id	Subject Username	Competency Id	Competency Name	Competency Official Rating
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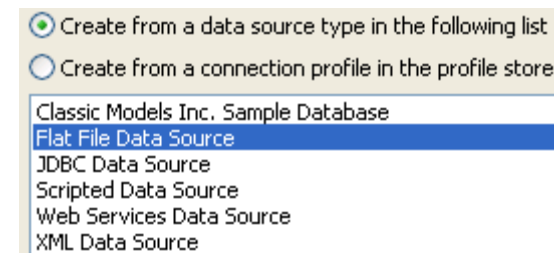
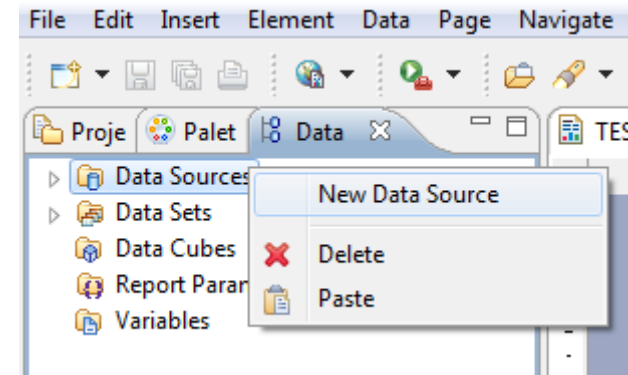
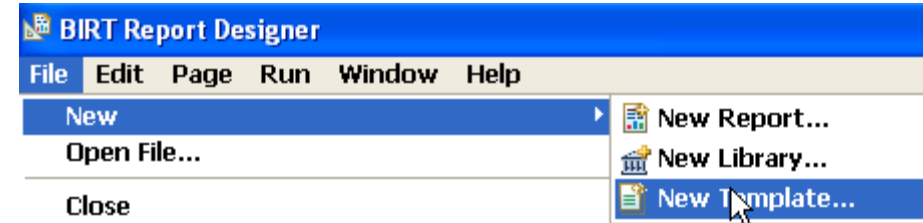
# Export data from Ad Hoc / Table

Once you have selected all of the desired columns/filters etc, use the “Export Dataset” feature to save this report to your desktop:



# In BIRT

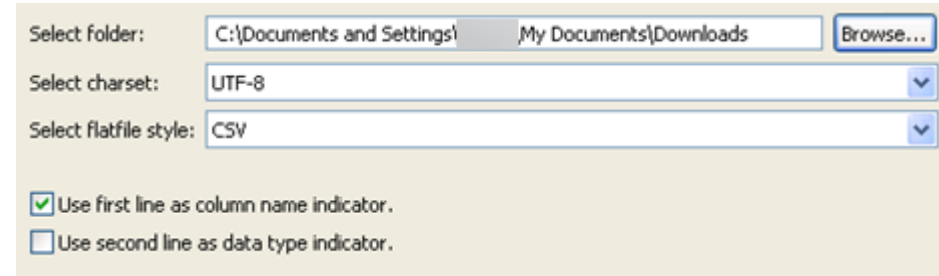
1. Open BIRT and start a new Template.
2. On the “Data Explorer” tab > Right click on “Data Sources” > New Data Source
3. Select “Flat File Data Source”  
Click Next



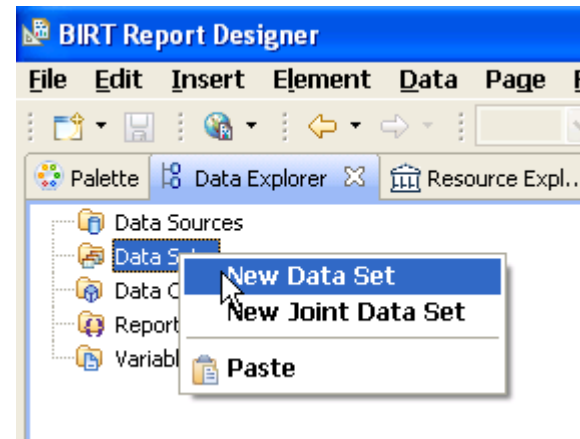
# In BIRT

4. Select the folder you saved your ARB data to during the “Export Dataset” step

Click Finish



5. On the “Data Explorer” tab > Right click on “Data Sets” > New Data Set



# In BIRT

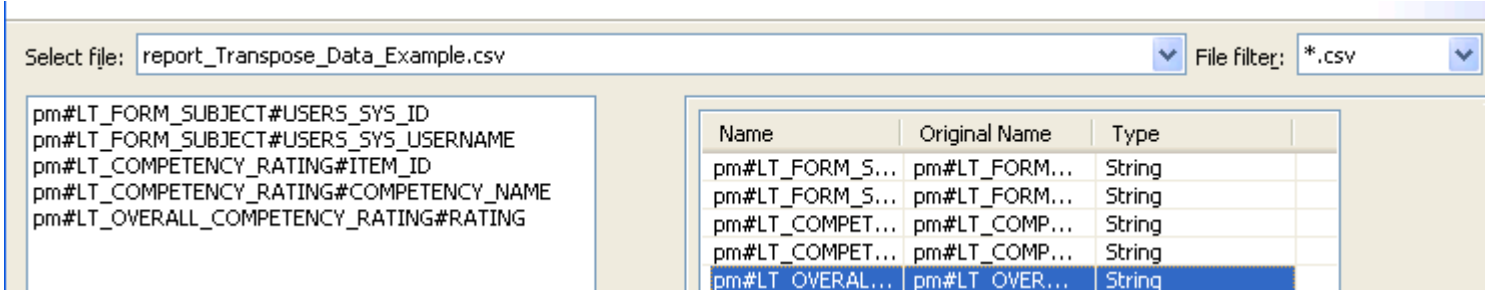
6. Select “Data Source” in the “Flat File Data Source” folder and give your Data Set a name (in the bottom field)

Click Next

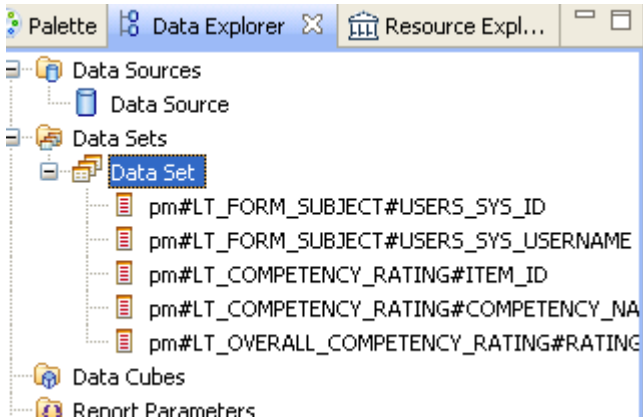
The screenshot shows the 'Data Source Selection' dialog box. At the top, there is a search bar labeled 'type filter text'. Below it, a tree view shows 'Flat File Data Source' expanded, with 'Data Source' selected. Below the tree, there are two fields: 'Data Set Type' with a dropdown menu set to 'Flat File Data Set', and 'Data Set Name' with a text box containing 'Data Set'. At the bottom, there are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

# In BIRT

- 7. 6. Select the .csv file that you exported at the “Export Dataset” step in ARB
- 8. Add all of the fields to the right hand data selection panel



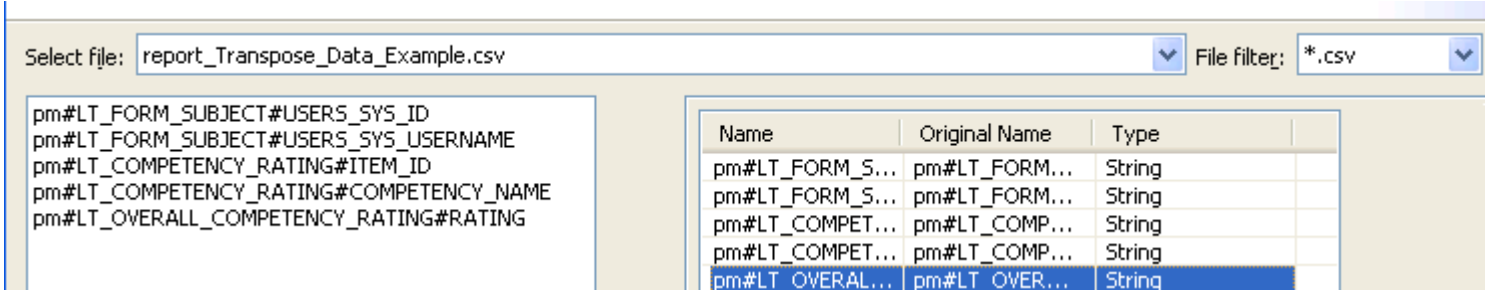
- 9. You should now see the fields in the “Data Sets” area of BIRT



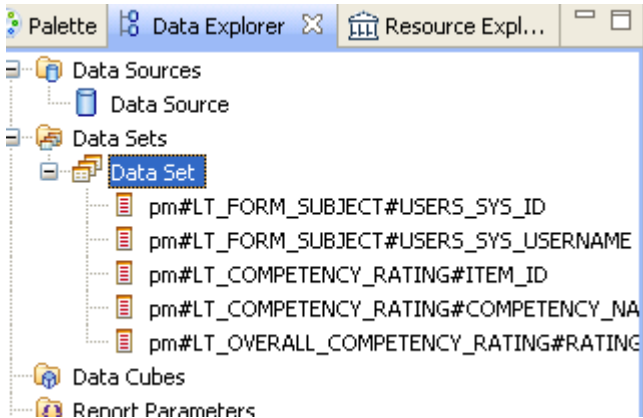


# In BIRT

- 7. 6. Select the .csv file that you exported at the “Export Dataset” step in ARB
- 8. Add all of the fields to the right hand data selection panel

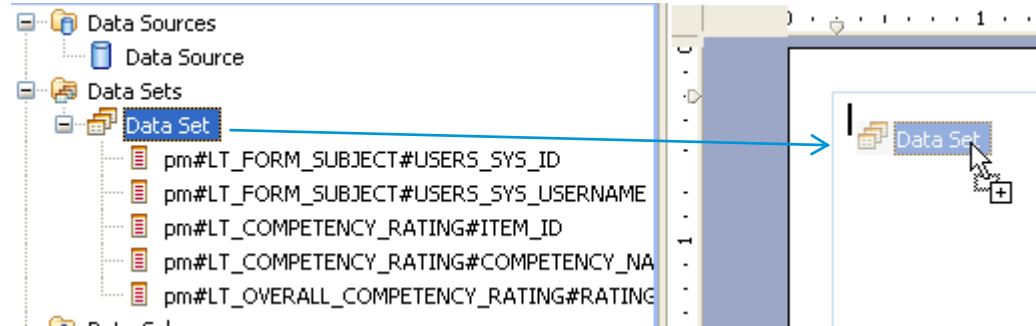


- 9. You should now see the fields in the “Data Sets” area of BIRT



# In BIRT

10. Drag the Data Set onto your page



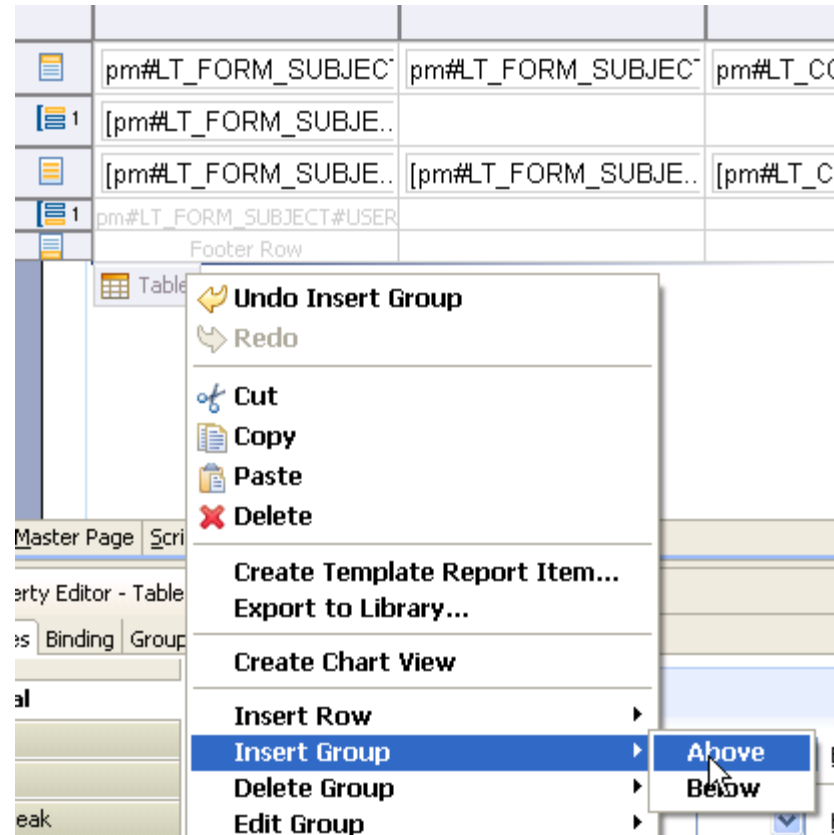
11. You will now see a table in your report

The screenshot shows a BIRT report page with a table. The table has five columns and three rows. The first row contains the field names. The second row contains the corresponding data values. The third row is a footer row. A 'Table' icon is visible in the bottom left corner of the report area.

pm#LT_FORM_SUBJECT#USERS_SYS_ID	pm#LT_FORM_SUBJECT#USERS_SYS_USERNAME	pm#LT_COMPETENCY_RATING#ITEM_ID	pm#LT_COMPETENCY_RATING#COMPETENCY_NAME	pm#LT_OVERALL_COMPETENCY_RATING#RATING
[pm#LT_FORM_SUBJECT#USERS_SYS_ID]	[pm#LT_FORM_SUBJECT#USERS_SYS_USERNAME]	[pm#LT_COMPETENCY_RATING#ITEM_ID]	[pm#LT_COMPETENCY_RATING#COMPETENCY_NAME]	[pm#LT_OVERALL_COMPETENCY_RATING#RATING]
Footer Row				

# In BIRT

12.Right Click on the “Table” button > Insert Group > Above



# In BIRT

13. Select the User Name field from the “Group On:” menu

14. Clear out the “Item Expression” field

The screenshot shows the 'Table of Contents' panel in the BIRT report designer. The configuration is as follows:

- Name:** User Name Group
- Group On:** pm#LT\_FORM\_SUBJECT#USERS\_SYS\_USERN (with a function icon  $f_x$ )
- Interval:** No Interval (dropdown menu)
- Range:** (empty text field)
- ☐ Use fixed base value for interval:
- ☐ Hide Detail
- Bookmark:** (empty text field with a function icon  $f_x$ )
- Table of Contents** (section header)
- Item Expression:** (empty text field with a function icon  $f_x$ )
- Style:** (empty dropdown menu)

On the right side of the panel, there are additional settings:





- Sort dir:** ☒ Ascending, ☐ Descending
- Page b...** (partially visible)
- Before:** (empty text field)
- After:** (empty text field)
- Inside:** ☒ Rep...

# In BIRT

15. Insert any extra columns required and rename the Column Headings to something more understandable by right clicking on the field > Edit > Type

User Id	User Name	Competency 1 - Communication	Competency 2 - Customer Focus	Competency 3 - Integrity/Ethics
[pm#LT_FORM_SUBJE..				
[pm#LT_FORM_SUBJE..	[pm#LT_FORM_SUBJE..	[pm#LT_COMPETENCY.	[pm#LT_COMPETENCY.	[pm#LT_OVERALL_CO..
pm#LT_FORM_SUBJECT#USER				

16. Copy the cells from the Detail row into the Header row:

Header		User Id	User Name	Competency 1 - Communication	Competency 2 - Customer Focus	Competency 3 - Integrity/Ethics
	 1	[pm#LT_FORM_SUBJE..	[pm#LT_FORM_SUBJE..	[pm#LT_COMPETENCY.	[pm#LT_COMPETENCY.	[pm#LT_OVERALL_CO.
		[pm#LT_FORM_SUBJE..	[pm#LT_FORM_SUBJE..	[pm#LT_COMPETENCY.	[pm#LT_COMPETENCY.	[pm#LT_OVERALL_CO.
	 1	pm#LT_FORM_SUBJECT#USER				
		Footer Row				

# In BIRT

17. Delete the Detail row & Footer group row:

Detail

Footer Group

	User Id	User Name	Competency 1 - Communication	Competency 2 - Customer Focus	Competency 3 - Integrity/Ethics
1	[pm#LT_FORM_SUBJE..	[pm#LT_FORM_SUBJE..	[pm#LT_COMPETENCY..	[pm#LT_COMPETENCY..	[pm#LT_OVERALL_CO..
	[pm#LT_FORM_SUBJE..	[pm#LT_FORM_SUBJE..	[pm#LT_COMPETENCY..	[pm#LT_COMPETENCY..	[pm#LT_OVERALL_CO..
1					

Undo Copy Elements

Redo Delete Rows

Cut

Copy

Paste

Delete

18. You should now see this:

	User Id	User Name	Competency 1 - Communication	Competency 2 - Customer Focus	Competency 3 - Integrity/Ethics
1	[pm#LT_FORM_SUBJE..	[pm#LT_FORM_SUBJE..	[pm#LT_COMPETENCY..	[pm#LT_COMPETENCY..	[pm#LT_OVERALL_CO..
	Footer Row				

# In BIRT

17. Delete the Detail row & Footer group row:

The screenshot shows a BIRT report table with the following structure:

	User Id	User Name	Competency 1 - Communication	Competency 2 - Customer Focus	Competency 3 - Integrity/Ethics
1	[pm#LT_FORM_SUBJE..	[pm#LT_FORM_SUBJE..	[pm#LT_COMPETENCY.	[pm#LT_COMPETENCY.	[pm#LT_OVERALL_CO..
	[pm#LT_FORM_SUBJE..	[pm#LT_FORM_SUBJE..	[pm#LT_COMPETENCY.	[pm#LT_COMPETENCY.	[pm#LT_OVERALL_CO..
1					

A context menu is open over the second data row. The menu includes the following options:

- Undo Copy Elements
- Redo Delete Rows
- Cut
- Copy
- Paste
- Delete** (highlighted with a mouse cursor)

Labels on the left side of the image point to the 'Detail' group (the data rows) and the 'Footer Group' (the empty rows at the bottom).

18. You should now see this:

	User Id	User Name	Competency 1 - Communication	Competency 2 - Customer Focus	Competency 3 - Integrity/Ethics
1	[pm#LT_FORM_SUBJE..	[pm#LT_FORM_SUBJE..	[pm#LT_COMPETENCY.	[pm#LT_COMPETENCY.	[pm#LT_OVERALL_CO..
	Footer Row				

# In BIRT

20. Enter a “Column Binding Name” of your choice and define the Data Type & set the Function to “FIRST”

User Id	User Name	Competency 1 - Communication	Cor Cus
[pm#LT_FORM_SUBJE..	[pm#LT_FORM_SUBJE..	[pm#LT_COMPETENCY..	[pmr

**Aggregation Builder**

Column Binding Name:

Display Name ID:  ...

Display Name:

Data Type:

Function:

Expression:

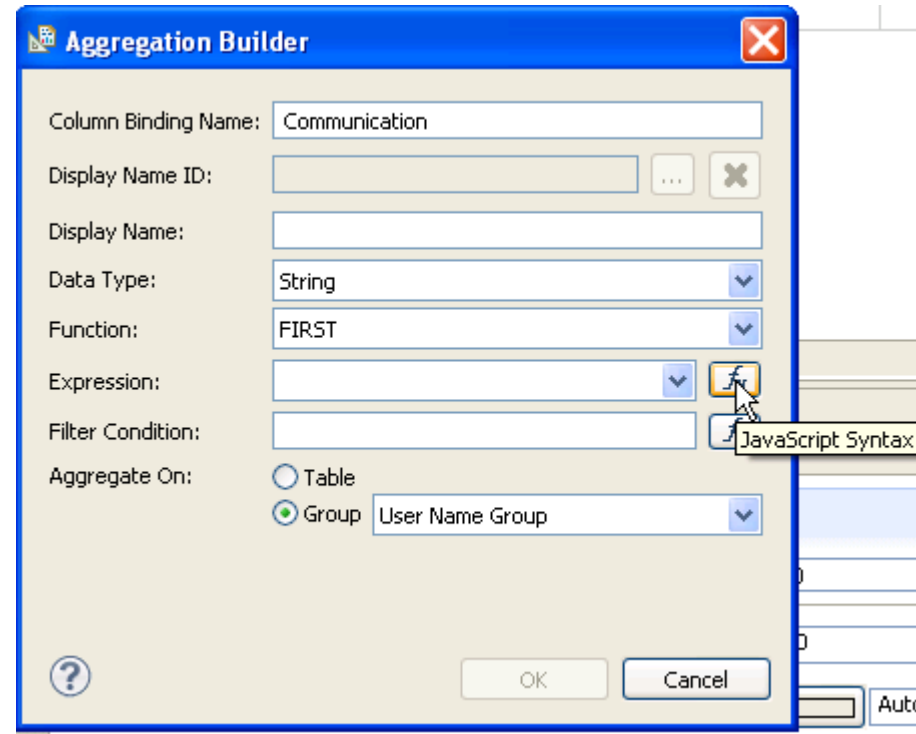
Filter Condition:

Aggregate On: ☐ Table ☒ Group



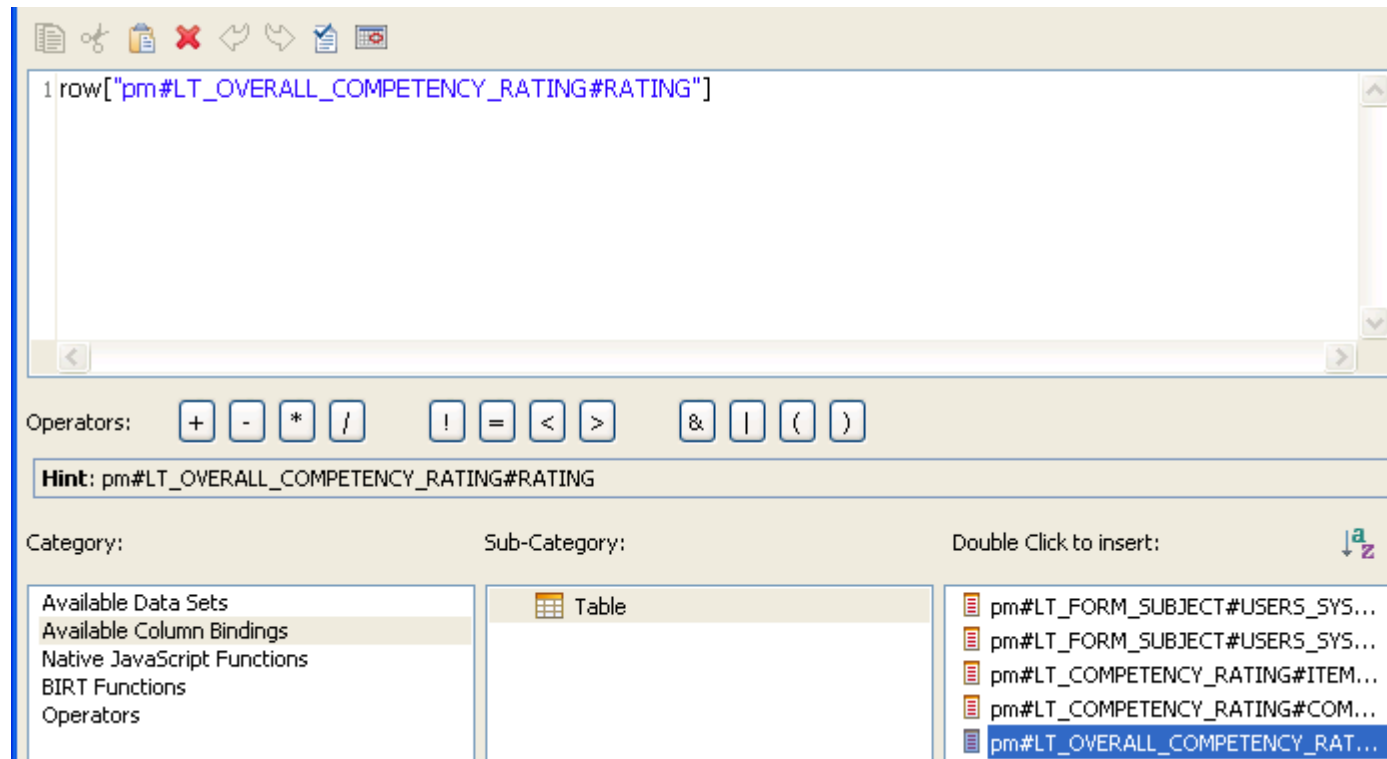
# In BIRT

21. Select the “JavaScript Syntax” button next to the Expression field:



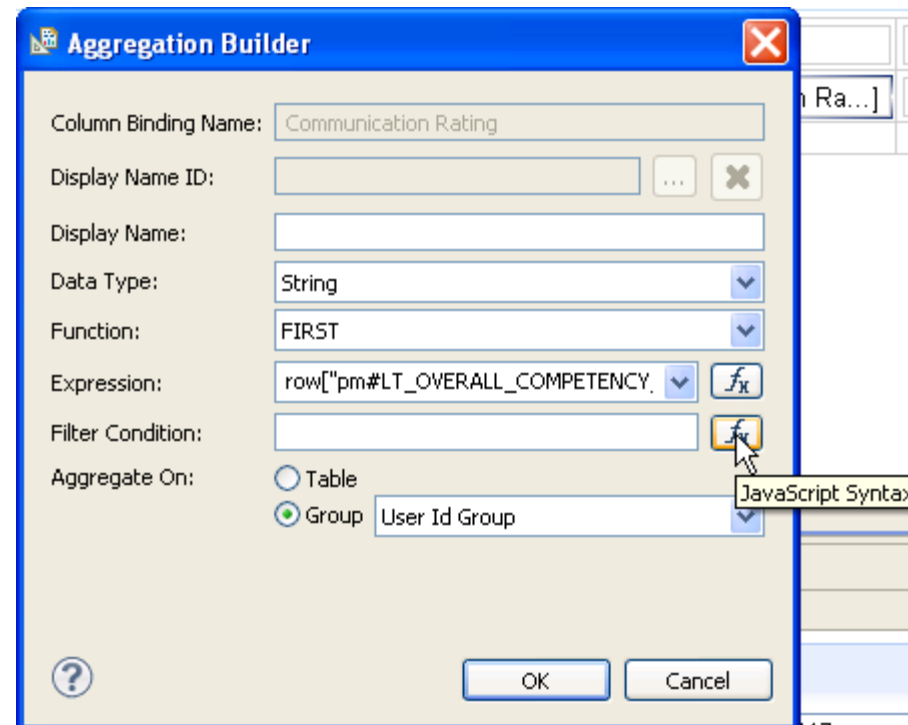
# In BIRT

22. In the Expression Builder, select the field that you want to transpose, in this example, “Competency Rating”.



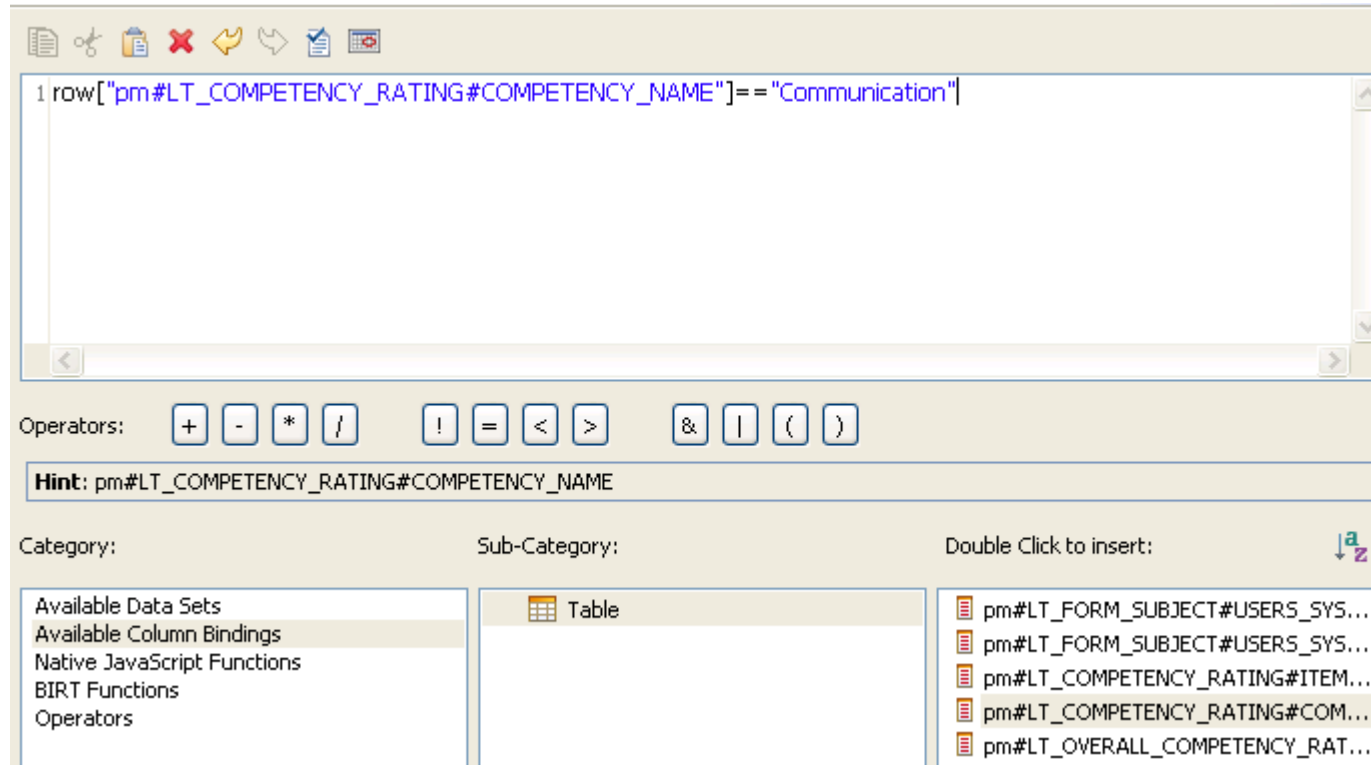
# In BIRT

23. Select the “JavaScript Syntax” button next to the Filter Condition field:



# In BIRT

24. In the Expression Builder, select the Competency Name field and add the competency name for the first column, in this case “==“Communication””



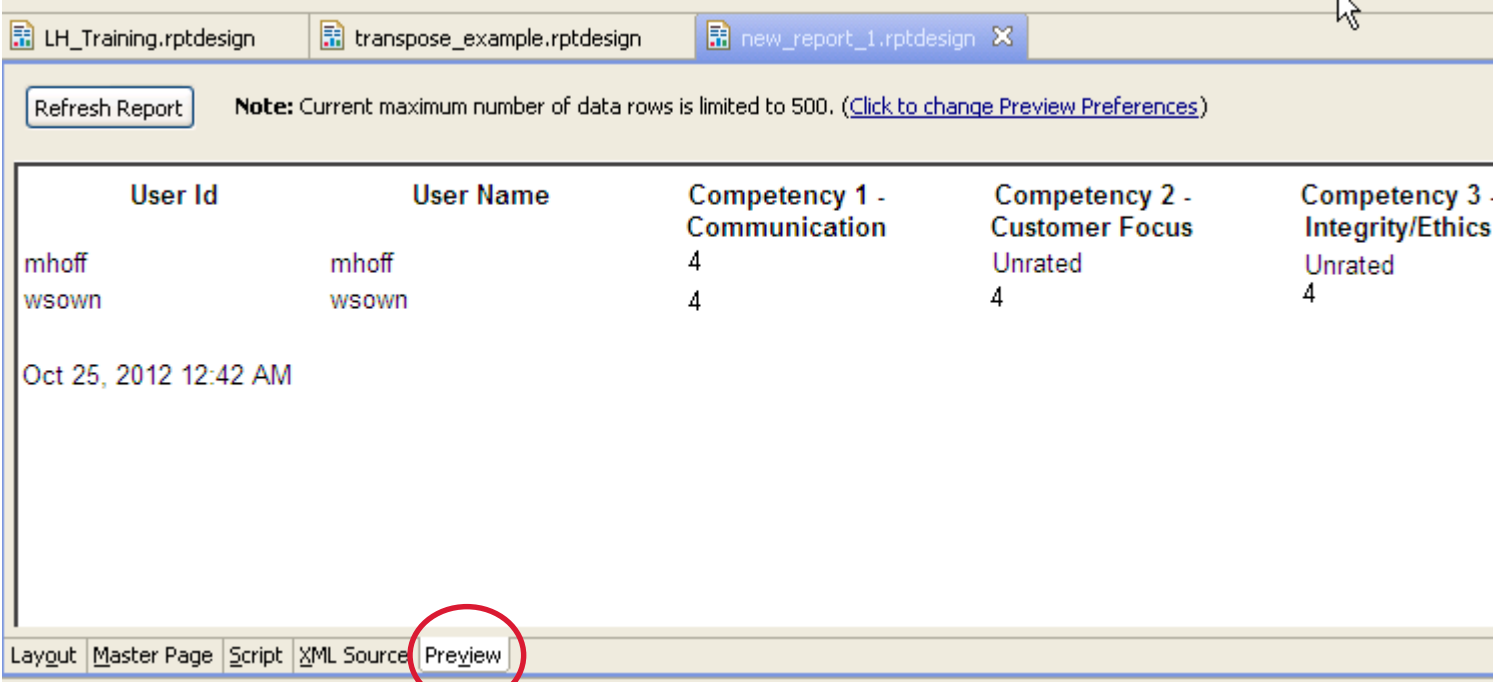
# In BIRT

25. Repeat steps 18-24 for each Competency (or copy & paste the first aggregation item into the second cell), until you have an Aggregation item in each:

User Sys Id	User Name	Competency 1 - Communication	Competency 2 - Customer Focus	Competency 3 - People Development
[pm#LT_FORM_SUBJE...]	[pm#LT_FORM]	Σ[Communication Ra...]	Σ[Customer Focus R...]	Σ[People Development]
Footer Row				

# In BIRT

26. Preview the report to confirm the results:



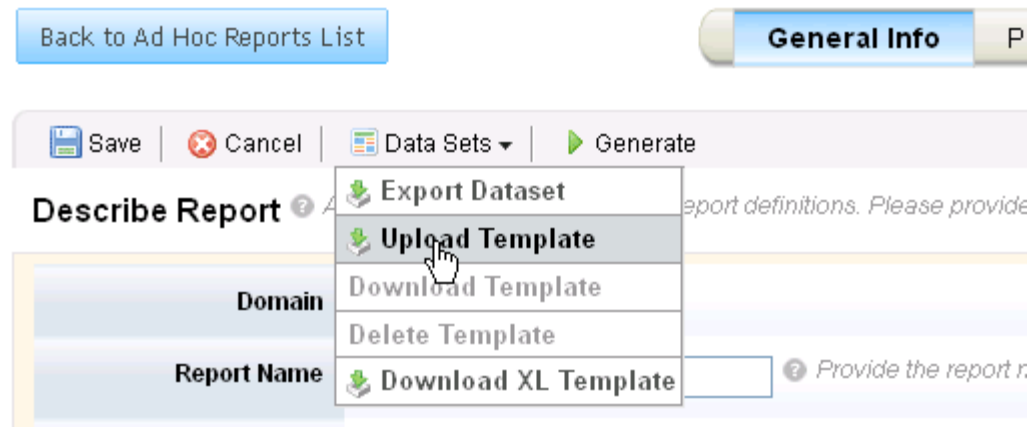
The screenshot shows the BIRT report preview window. At the top, there are three tabs: 'LH\_Training.rptdesign', 'transpose\_example.rptdesign', and 'new\_report\_1.rptdesign'. Below the tabs is a 'Refresh Report' button and a note: 'Note: Current maximum number of data rows is limited to 500. (Click to change Preview Preferences)'. The main area displays a table with the following data:

User Id	User Name	Competency 1 - Communication	Competency 2 - Customer Focus	Competency 3 - Integrity/Ethics
mhoff	mhoff	4	Unrated	Unrated
wsown	wsown	4	4	4

Below the table, the date and time 'Oct 25, 2012 12:42 AM' are displayed. At the bottom, there is a navigation bar with tabs: 'Layout', 'Master Page', 'Script', 'XML Source', and 'Preview'. The 'Preview' tab is highlighted with a red circle.

# Upload BIRT template to Ad Hoc/ Report - Table

27. When you are ready to upload the template to SuccessFactors, save the template and upload the template to your ARB query:



28. Save & Run the report as per normal. The BIRT template will now be applied each time you run the report within SuccessFactors Adhoc Report Builder tool.