

Advanced Form Data Binder

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Introduction

Advanced Form Row Data Binder is an extended version of the default [Form Data Binder](#). It allows you to add in **Filter Conditions** in a guided and friendly manner.

Advanced Form Data Binder Properties

Configure Advanced Form Data Binder

Configure Advanced Form Row Data Binder

Select Binder > **Configure Advanced Form Row Data Binder** > **Advanced**

Form *

Expense Claim Entry

Joins Form Data Table

FORM DATA TABLE NAME *	FIELD	JOIN FIELD ID *
j_expense_claim	j_expense_claim.id	claim

Figure 1: Configure Advanced Form Data Binder

Name	Description								
Form	Source form to retrieve data from.								
Joins Form Data Table	<table><tr><th>Name</th><th>Description</th></tr><tr><td>Form Data Table Name</td><td>Target table to join with</td></tr><tr><td>Field</td><td>Target table field to join with</td></tr><tr><td>Join Field Id</td><td>Parent field Id to join with</td></tr></table>	Name	Description	Form Data Table Name	Target table to join with	Field	Target table field to join with	Join Field Id	Parent field Id to join with
Name	Description								
Form Data Table Name	Target table to join with								
Field	Target table field to join with								
Join Field Id	Parent field Id to join with								

Sample

In the screenshot example in Figure 1, such configurations can be presented with the following SQL.

Sample SQL

SELECT * FROM "Claim Entry" entry JOIN hr_expense_claim claim ON claim.id = entry.claim

Advanced

Filter

Filter

Filter Conditions

JOIN TYPE *	FIELD *	OPERATOR *	VALUE
And	category	Equal	Meal
Or	category	Equal	Allw

Extra Conditions ?

Figure 2: Advanced > Filter

Name	Description						
Filter	Filter Conditions						
Conditio							
ns	<table><thead><tr><th>Name</th><th>Description</th></tr></thead><tbody><tr><td>Join Type</td><td><ul style="list-style-type: none">AndOr</td></tr><tr><td>Field</td><td>Field ID. (e.g. username)<div><div><div><div>Joget</div><div>DATALIST BUILDER</div><div>Marketplace App2 v1: List - Create Buyer (Published)</div></div><div><div>SOURCE</div><div>DESIGN</div><div>PROPERTIES</div><div>PREVIEW</div><div>SAVE</div></div><div><div>Columns / Filters</div><div><div>Created By</div><div>Created By Name</div><div>Date Created</div><div>Date Modified</div><div>DateSubmit</div><div>Email</div><div>First name</div><div>group_id</div><div>ID</div><div>Last name</div><div>Modified By</div><div>Modified By Name</div><div>password</div><div>passwordConfirm</div><div>SignupNo</div><div>Status</div><div>Time zone</div><div>Username</div></div></div><div><div>Username</div><div>username</div><div>Unsortable</div><div>Visible</div><div>Exportable</div><div>Default</div></div></div><div><div>General</div><div>General > Action Mapping > Formatter</div><div>Name</div><div>Label *</div><div>Sortable *</div><div>Render value as HTML</div><div>Hidden *</div><div>Exclude in export?</div><div>Width</div><div>Inline Style</div><div>Alignment</div><div>Header Alignment</div></div><div><div>username</div><div>Username</div><div>No</div><div>Default Value</div><div>No</div><div></div><div></div><div>Default Value</div><div>Default Value</div></div></div></td></tr></tbody></table>	Name	Description	Join Type	<ul style="list-style-type: none">AndOr	Field	Field ID. (e.g. username) <div><div><div><div>Joget</div><div>DATALIST BUILDER</div><div>Marketplace App2 v1: List - Create Buyer (Published)</div></div><div><div>SOURCE</div><div>DESIGN</div><div>PROPERTIES</div><div>PREVIEW</div><div>SAVE</div></div><div><div>Columns / Filters</div><div><div>Created By</div><div>Created By Name</div><div>Date Created</div><div>Date Modified</div><div>DateSubmit</div><div>Email</div><div>First name</div><div>group_id</div><div>ID</div><div>Last name</div><div>Modified By</div><div>Modified By Name</div><div>password</div><div>passwordConfirm</div><div>SignupNo</div><div>Status</div><div>Time zone</div><div>Username</div></div></div><div><div>Username</div><div>username</div><div>Unsortable</div><div>Visible</div><div>Exportable</div><div>Default</div></div></div><div><div>General</div><div>General > Action Mapping > Formatter</div><div>Name</div><div>Label *</div><div>Sortable *</div><div>Render value as HTML</div><div>Hidden *</div><div>Exclude in export?</div><div>Width</div><div>Inline Style</div><div>Alignment</div><div>Header Alignment</div></div><div><div>username</div><div>Username</div><div>No</div><div>Default Value</div><div>No</div><div></div><div></div><div>Default Value</div><div>Default Value</div></div></div>
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Extra
Conditio
ns

Additional condition(s) for filtering the data set. HQL is expected here.

Syntax Query

Start your filter name with **e.customProperties.** followed by the field id (i.e. username)

Columns / Filters

- Created By
- Created By Name
- Date Created
- Date Modified
- Date Submit
- Email
- First name
- group_id
- ID
- Last name
- Modified By
- Modified By Name
- password
- passwordConfirm
- SignupNo
- Status
- Time zone
- Username

Username

- username
- Unsortable
- Visible
- Exportable
- Default
-
-

General

General > Action Mapping > Formatter

Name: username

Label: Username

Sortable: No

Render value as HTML: Default Value

Hidden: No

Exclude in export? ☐

Width:

Inline Style:

Alignment: Default Value

Header Alignment: Default Value

HQL is accepted

You may even use an operator such as "LIKE" to narrow down your data set.

Select Form

Select Binder > Select Form

Form: HR Expense Claim Form

Extra Filter Condition: e.customProperties.title LIKE '%Building%'

localhost:8080/jw/web/console/app/hr_expense/2/datalist/builderPreview/hr_expense_list

	Title	Ref	Submitted By	Total	Date Created
<input type="checkbox"/>	Team Building 8	REF-000022	Admin Admin	\$ 0.00	19-08-2015 04:29 PM
<input type="checkbox"/>	Team Building	REF-000003	Admin Admin	\$ 0.00	24-08-2015 10:44 AM
<input type="checkbox"/>	Team Building 2	REF-000004	Admin Admin	\$ 0.00	24-08-2015 10:47 AM
<input type="checkbox"/>	Team Building 9	REF-000005	Admin Admin	\$ 0.00	24-08-2015 03:37 PM
<input type="checkbox"/>	Team Building 2	REF-000006	Admin Admin	\$ 0.00	24-08-2015 06:17 PM
<input type="checkbox"/>	Team Building 3	REF-000023	Admin Admin	\$ 0.00	14-09-2015 02:34 PM
<input type="checkbox"/>	Team Building 4	REF-000024	Admin Admin	\$ 0.00	14-09-2015 02:34 PM
<input type="checkbox"/>	Team Building 5	REF-000025	Admin Admin		14-09-2015 02:43 PM
<input type="checkbox"/>	Team Building 6	REF-000026	Admin Admin	\$ 0.00	14-09-2015 02:43 PM
<input type="checkbox"/>	Team Building 7	REF-000027	Admin Admin	\$ 0.00	14-09-2015 06:10 PM

Sample

```
e.customProperties.title = 'Trip'
```

A hash variable is accepted here.

Sample

```
e.customProperties.submitted_by = '#currentUser.id#'
```

UserView Key can be used as part of the condition.

Sample

```
e.customProperties.category_id = '#userviewKey#'
```

Aggregate Query

Aggregate Query

Group By ?

j_expense_claim.CreatedDate

j_expense_claim.FinanceApprovedBy

j_expense_claim.FinanceApprovedDate

j_expense_claim.SelectApprover

j_expense_claim.approval_comments

j_expense_claim.createdBy

j_expense_claim.createdByName

j_expense_claim.dateCreated

j_expense_claim.claimant

Aggregate Fields

FIELD *	FUNCTION *
amount	Sum
j_expense_claim.title	Count

Having Conditions

JOIN TYPE *	FIELD *	FUNCTION *	OPERATOR *	VALUE
And	j_expense_claim.total	Sum	Greater Than	1000

Figure 3: Advanced > Aggregate Query

joget

DATALIST BUILDER

Expenses Claim v3: Expense Claim Entry (Published)

SOURCE

DESIGN

PROPERTIES

PREVIEW

SAVE

Columns / Filters

Amount (SUM)

j_expense_claim.claimant

j_expense_claim.title (COUNT)

Actions

Bean Shell

Hyperlink

Delete

JDBC

Drag Filters Here

Drag Columns Here

Drag Rows Here

j_expense_claim.title (COUNT)	Amount (SUM)	j_expense_claim.claimant
AFD_COUNT_j_expense_claim.title	AFD_SUM_amount	j_expense_claim.claimant
Unsortable	Unsortable	Unsortable
Visible	Visible	Visible
Exportable	Exportable	Exportable
Default	Default	Default
-	-	-
-	-	-

	j_expense_claim.title (COUNT)	Amount (SUM)	j_expense_claim.claimant
<input type="checkbox"/>	2	1600	Admin Admin
<input type="checkbox"/>	1	8000	Cat Grant

2 items found, displaying all items.

1

CSV | Excel | XML | PDF

Figure 4: The configurations shown in **Figure 3** will produce the following sample result.

Name	Description
Group By	<p>Add grouping clause/function to the eventual data set. This can be used together with Aggregate Fields above.</p> <p>In figure 3, the "amount" field will be summed up by "claimant", shown in per record row.</p>
Aggregate Fields	<p>This field will be displayed once any number of columns has been added into the Group By field.</p> <p>The select field is to aggregate.</p> <ul style="list-style-type: none">CountCount DistinctSumMinMaxAvg <p>In the sample screenshot above, the "amount" field will be put into the "Sum" function, and "Count" will be applied to "title".</p>
Having Conditions	<p>This field will be displayed once any number of columns has been added into the Group By field.</p> <p>The HAVING clause enables you to specify conditions that filter which group results appear in the final results. The WHERE clause places conditions on the selected columns, whereas the HAVING clause places conditions on groups created by the GROUP BY clause. Read more at http://www.dofactory.com/sql/having</p>

Expression Columns

Expression Columns

Expression Columns ?

ALIAS *

price

+

EXPRESSION *

CAST(price AS long)

⬆

⬇

✖

Custom Checkbox/Radio Button Value ?

Figure 5: Advanced > Expression Columns

Name	Description
------	-------------

Expression Columns

An additional column can be added in this expression columns using Hibernate Query Language (HQL). This is especially useful when you need to perform additional computation on multiple columns.

Example 1 - Cast column to data type "long".

Expression

`CAST(price AS long)`

`SUBSTRING(CAST(dateCreated as string),1,10) // To extract the date from the datetime database column`

Expression

`CAST(e.customProperties.sales_price AS long) - CAST(e.customProperties.price AS long)`

Example 2 - Concatenate multiple columns into one.

Expression

`CONCAT(first_name, ' ', last_name)`

Expression

`first_name || ' ' || last_name`

Custom Checkbox/Radio Button Value

Define custom record ID to be used to pass over to column action. Defaulted to ID.

All Expenses History

Delete

<input type="checkbox"/>	#	TITLE	\$	STATUS	SUBMIT BY
<input checked="" type="checkbox"/>	0001	Claim A	111.00	Approved	Admin Admin