

Create Aggregate Final Row in Grid

How can we create a final row that displays aggregated values of the rest of the rows? This is especially important when it comes to reporting. One can design the form such that it serves as a report rather than a means of data entry.

The final row is not a mere record row but serves as a summary of the record rows.

Purchase Requisition

Fri, 21 Dec 2018

Logout

New Category

Welcome

Home

Inbox

Run Process

Purchase - Submit Request

Request Details ok

Name

Admin Admin

Required Date

MM/DD/YYYY

Category

Stationery

Items

Name	Quantity	Price	
pen	1	10	X
pencil	2	20	X
SUM OF COLUMN		SUM OF COLUMN	

Add Row

Remark

Save As Draft

Complete

Cancel

Print

For this to happen, there are many ways to do it but we will focus on the dataset data loaded from its binder. First, we can inspect how data is constructed.

FORM BUILDER Purchase Requisition v3: 1-Submit Request (Published)

DESIGN FORM

PROPERTIES

PREVIEW

SAVE

GENERATE APP

Basic

Currency Field

Hidden Field

Text Field

Password Field

Text Area

Select Box

Check Box

Radio

Date Picker

File Upload

Subform

Custom

Duplicate Data

Grid

Undo

Redo

Advanced Tools

Request Details

Drag This Column

Name

#currentUser.firstName#

Required Date

MM/DD/YYYY

Category

Stationery

Items

Name	Quantity	Price
Click to edit	Click to edit	Click to edit
Add Row		

Remark

type

Process

HIDDEN FIELD

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The element in question here is a basic grid, let's click into it.

FORM BUILDER

Purchase Requisition v3: 1-Submit Request (Published)

DESIGN FORM

PROPERTIES

PREVIEW

SAVE

GENERATE

Property Editor

Basic

Currency

Hidden Field

Text Field

Password

Text Area

Select Box

Check Box

Radio

Date Picker

File Upload

Subform

Custom

Duplicate

Grid

Subform

Custom

ID Generator

Enterprise

Multi Page

Multi Select

Popup Screen

Calculator

Captcha

Signature

Edit Grid > UI & Validation > **Data Binder** > Load Binder (Multirow Form Binder) > Store Binder (Multirow Form Binder)

Data Binder

Load Binder

Multirow Form Binder

Store Binder

Multirow Form Binder

Load Binder (Multirow Form Binder)

Configure Multirow Form Binder

Form *

Item

Foreign Key *

parent_id

Store Binder (Multirow Form Binder)

Configure Multirow Form Binder

Form *

Item

Foreign Key *

parent_id

< Prev

Next >

OK

Cancel

The grid is using a pair of identical load and store binder (which makes sense most of the time so that data is stored and loaded from the same source). We can opt to use JDBC Binder as the load binder so that we can gain full control on how dataset is returned and constructed.

With the ability to define our own SQL query, we can then compose a query that will always return the last row as an aggregated values row.

```
select c_name, c_quantity, c_price, c_parent_id from app_fd_purchase_items where c_parent_id = ?
union
select "SUM", sum(c_quantity), sum(c_price), c_parent_id from app_fd_purchase_items where c_parent_id = ?
```

And this is a sample result by running them on a command line interface.

c_name	c_quantity	c_price	c_parent_id
pen	1	10	1177_purchaseRequisition_purchase
pencil	2	20	1177_purchaseRequisition_purchase
SUM	3	30	1177_purchaseRequisition_purchase

Data Binder

Load Binder

JDBC Binder

Store Binder

Multirow Form Binder

Load Binder (JDBC Binder)

Configure JDBC Binder ?

Datasource

Default Datasource

SQL SELECT Query *

Use question mark (?) in your query to represent primary key or foreign key

1

select c_name, c_quantity, c_price, c_parent_id from app_fd_purchase_

2

union

3

select "SUM", sum(c_quantity), sum(c_price), c_parent_id from app_fd_

4

However, it does not actually play out well with the JDBC Binder as it is only expecting one parameter in the query. Our union query has 2 parameters.

In order to overcome this, we can create a stored procedure in the database instead.

```

DELIMITER //
CREATE PROCEDURE purchase_items_dataset
(IN recordId CHAR(255))
BEGIN
  select c_name, c_quantity, c_price, c_parent_id from app_fd_purchase_items where c_parent_id = recordId
  union
  select "SUM", sum(c_quantity), sum(c_price), c_parent_id from app_fd_purchase_items where c_parent_id =
  recordId;
END //
DELIMITER ;

```

With the stored procedure to return the appropriate dataset that we need, we will just need to call it from the JDBC Binder.

Load Binder (JDBC Binder)

Configure JDBC Binder ?

Datasource

Default Datasource

SQL SELECT Query *

1

CALL purchase_items_dataset(?);

This is the outcome.

Purchase - Submit Request

Request Details

Name

Admin Admin

Required Date

MM/DD/YYYY

Category

Stationery

Items

Name	Quantity	Price	
pen	1	10	X
pencil	2	20	X
SUM	3	30	X

Add Row

Remark

Save As Draft

Complete

Cancel

Print