Changes to Report Writing Capability in ADempiere

Adaxa has extended ADempiere reporting in two areas:

- Financial Report Writer, and
- List Report Writer

Financial Report Writer Changes

Report 1 - "List Sources" selected

Adaxa

logo in the Header print format

Adaxa P&L Test
1HQ
GardenWorld
Period:2015-08
Currency:US Dollar

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Header Print Format using the Report Parameters as context variables and picked up in the header

Name	Description	2015-08 Mth	2015-08 Year to date (label wrap example)	
				column headings will wrap based on defined column width
41000 automatic indent of detail lines when List Sources selected	Trade Revenue	101,241	102,145	
43000	Sideline Revenue	5,100	5,100	
49700	Charge revenue	120	8,800	overlines inserted when List Sources selected
SALES		106,461	116,045	
. new option for insert blank line (ignore " . " now fixed)				
51100	Product CoGs	126	115,554	
51400	Inventory Clearing	0	7,794	
56300	Inventory Adjustment	-2,678	-2,678	
58100	Invoice price variance		1,827	
58200	Purchase price variance	150	150	
58300	Purchase price variance Offset	-150	-150	
58600	Rate Variance	-72	-72	
COGS		-2,625	122,425	
.				overline and underline insered when selected ReportLine
MARGIN		109,086	-6,379	
.				
60910	Staff Gifts & Perks	1,200	1,200	
61300	Other Occupancy Costs		-45	
66100	Data Processing Supplies		-1	
OPERATING EXPENSES		1,200	1,154	
83100	Labor (Absorbed)		-1,665	
EXPENSES ABSORBED			-1,665	
75100	Education Course Fees	500	50	
78100	Bad Debts Write-off	10	10	
79600	Charge expense	2,000	22,148	
7-EXPENSES		2,510	22,208	
TOTAL NON FINANCE EXPENSES		3,710	21,697	
.				
OTHER INCOME				
OTHER EXPENSE				
NET OTHER INCOME/EXPENSE		0	0	Field display logic can be used to(say) suppress zeroes
EXPENSES TOTAL		3,710	21,697	
.				
RESULT BEFORE TAX		105,376	-28,076	

note that when List Sources is selected each account or element adding up to the total is displayed (indented), the total is then displayed with a 'line above' in the number columns to highlight that it is a total.

Report 2 - “List Sources” de-selected

Adaxa

Adaxa P&L Test
1HQ
GardenWorld
Period:2015-08
Currency:US Dollar

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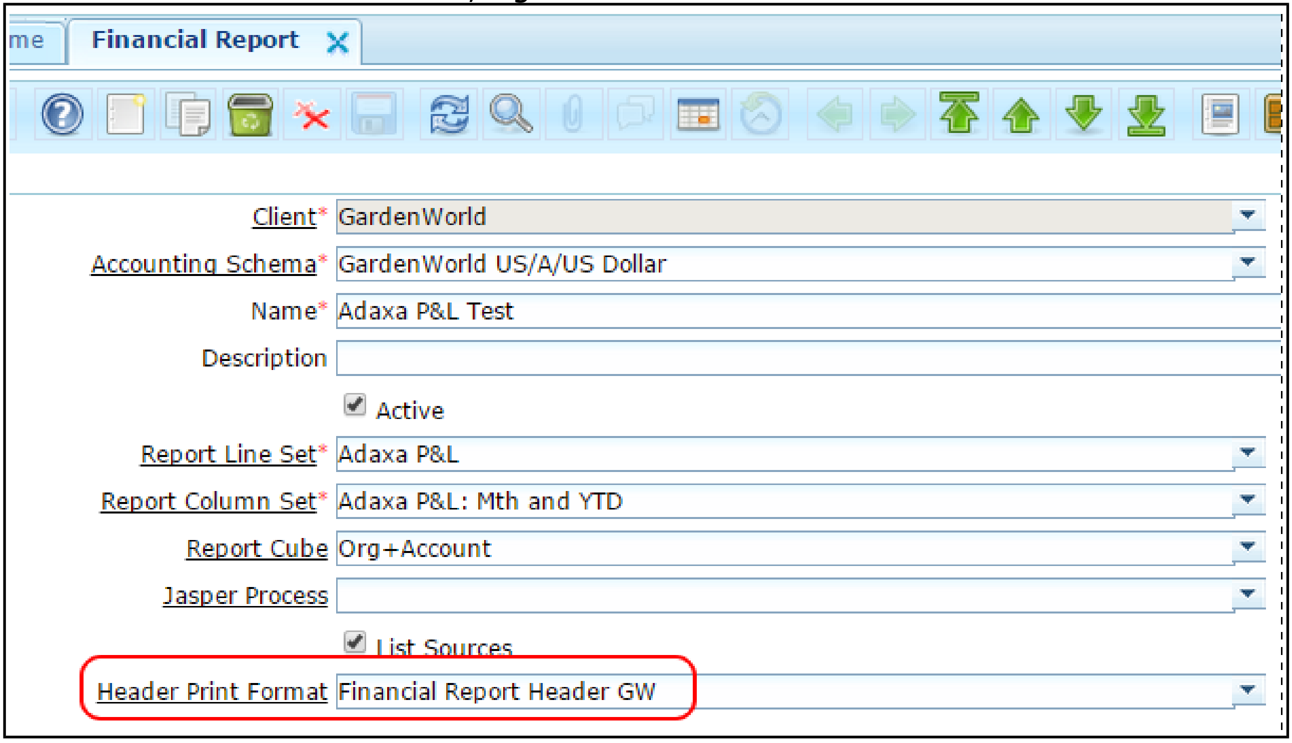
Name	Description	2015-08 Mth	2015-08 Year to date (label wrap example)
SALES		106,461	116,045
.			
COGS		-2,625	122,425
.			
MARGIN		109,086	-6,379
.			
OPERATING EXPENSES		1,200	1,154
EXPENSES ABSORBED			-1,665
7-EXPENSES		2,510	22,208
TOTAL NON FINANCE EXPENSES		3,710	21,697
.			
OTHER INCOME			
OTHER EXPENSE			
NET OTHER INCOME/EXPENSE		0	0
EXPENSES TOTAL		3,710	21,697
.			
RESULT BEFORE TAX		105,376	-28,076
.			
TAX			
.			
RESULT AFTER TAX		105,376	-28,076

Note that when List Sources is de-selected only the total for the accounts/elements is displayed and the 'line above' is not printed. 'Line Above' and 'Line Below' are printed where these options are ticked in the Report Line definition.

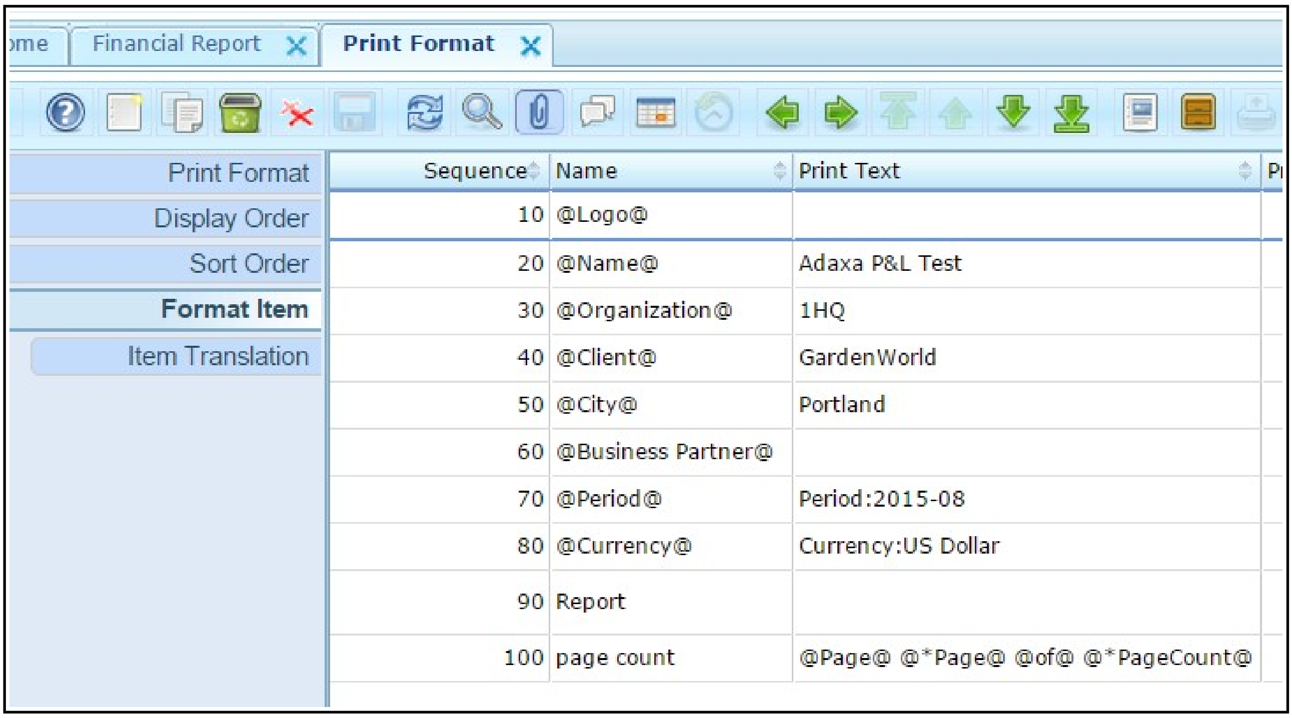
please ignore the " . " printed on the blank rows, the screen shots came from a beta version of the code

Details of Improvements Added to the Financial Report Writer....

Control of what gets printed in the Header and Footer of the Report.....
A Header Print Format is added which picks up report parameters as context variables and allows addition of other text field, logos etc.



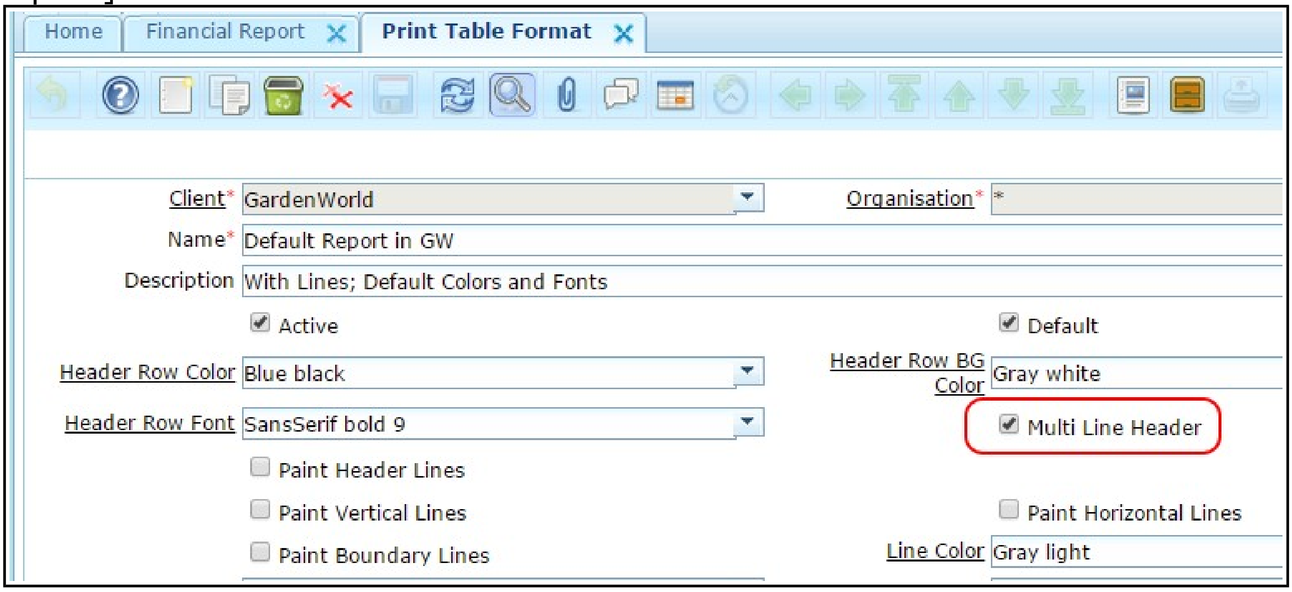
Printable context variable items in Header Print Format are:



line 90 prints the standard Report Writer print format.

Column Headings that wrap to column width….

Column Heading labels can be forced to wrap by setting a tick-box on the 'Print Table Format' used in the included Print Format which contains the actual Financial Report … set the “Multi Line Header” to Y in the 'Print Table Format'. [this also works in normal list reports]

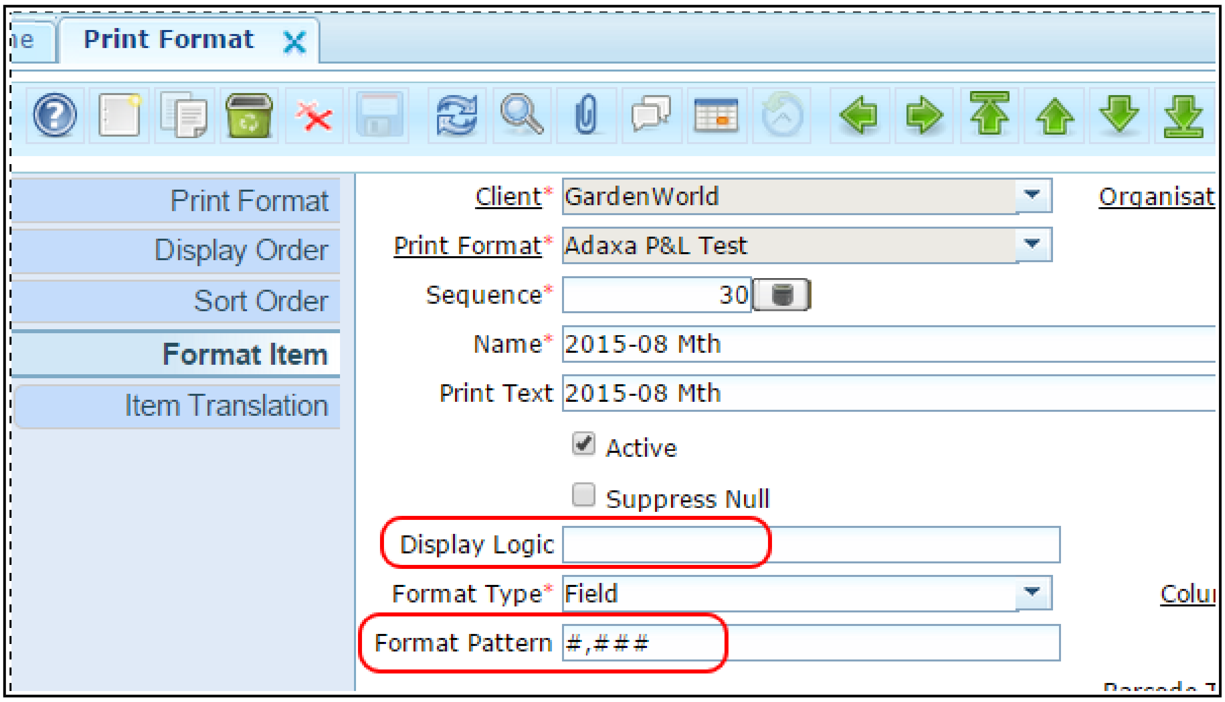


Extra control of what gets printed and how it looks ….

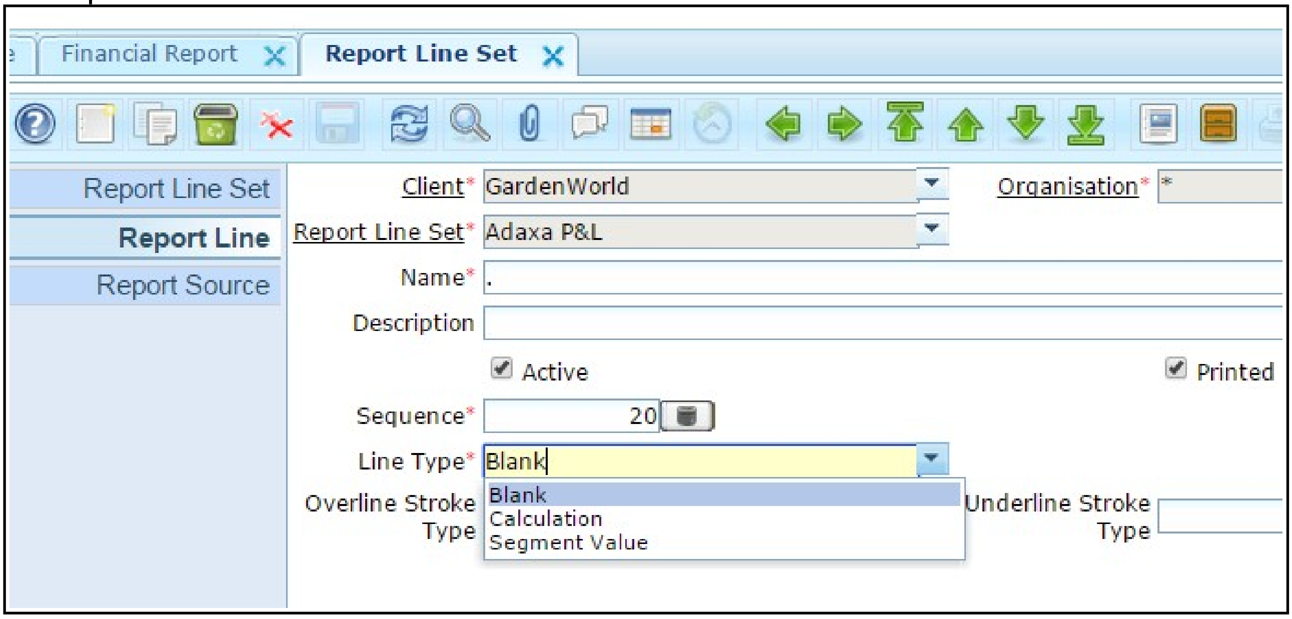
in the included print format for the lines you can set

…. display logic eg #,<fieldname># ! 0 to suppress zeroes

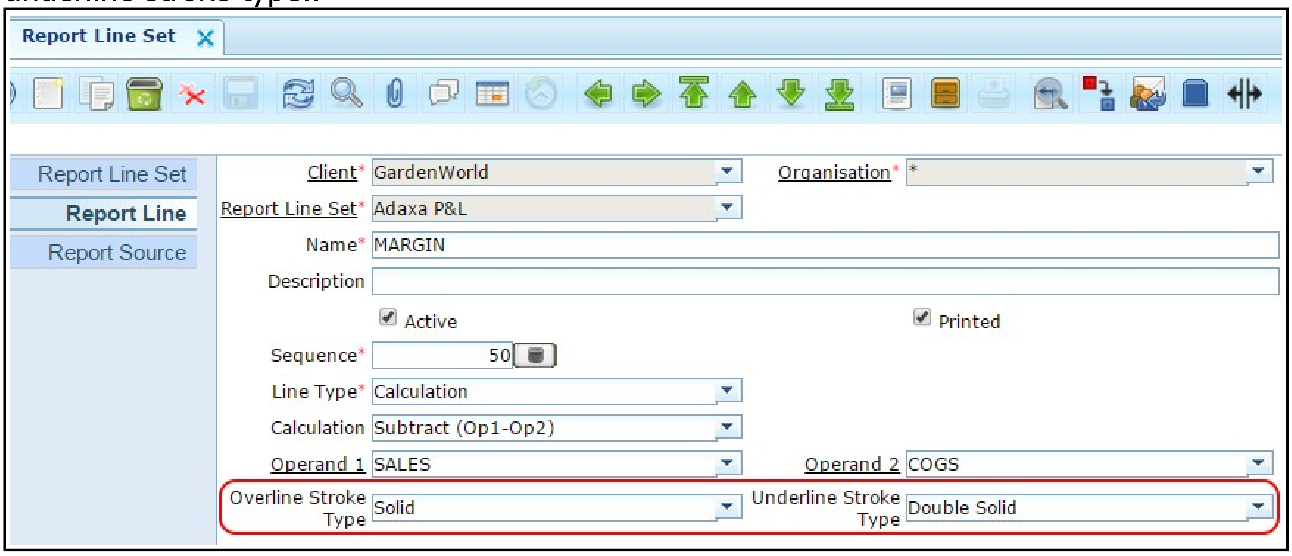
….. Format Pattern



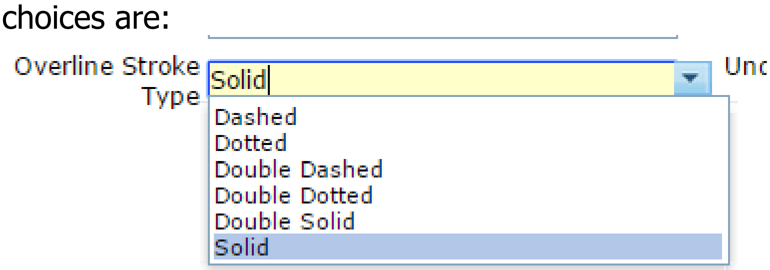
Displaying Blank Rows to Improve the Layout of the Report ...
in the Report Line Set you can specify that you want a blank line to separate sections of the report



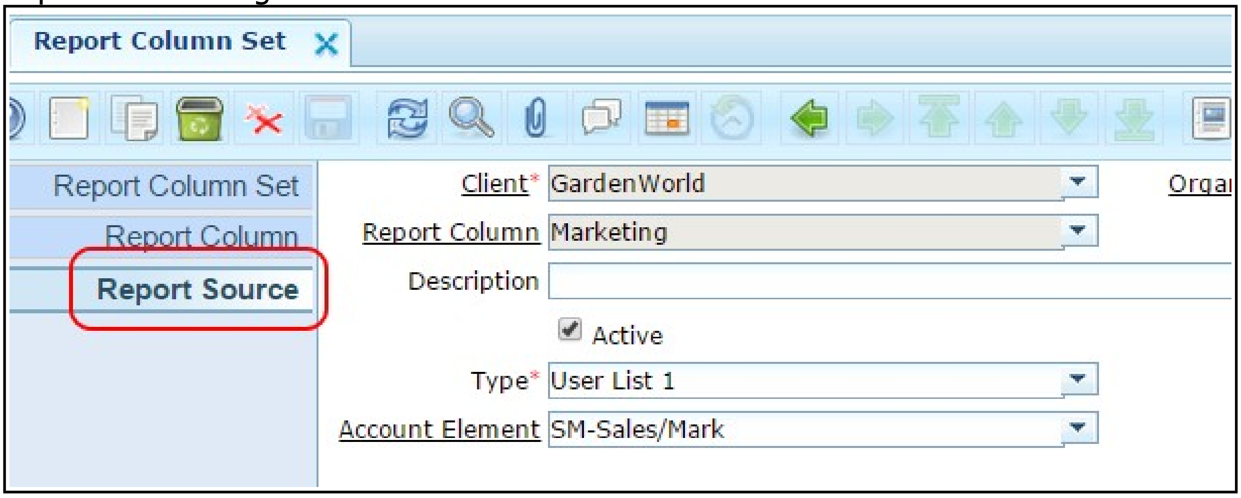
Printing Lines Above and Below Totals .....
in the Report Line Set you can select that a report line will have an overline and/or an underline stroke type..



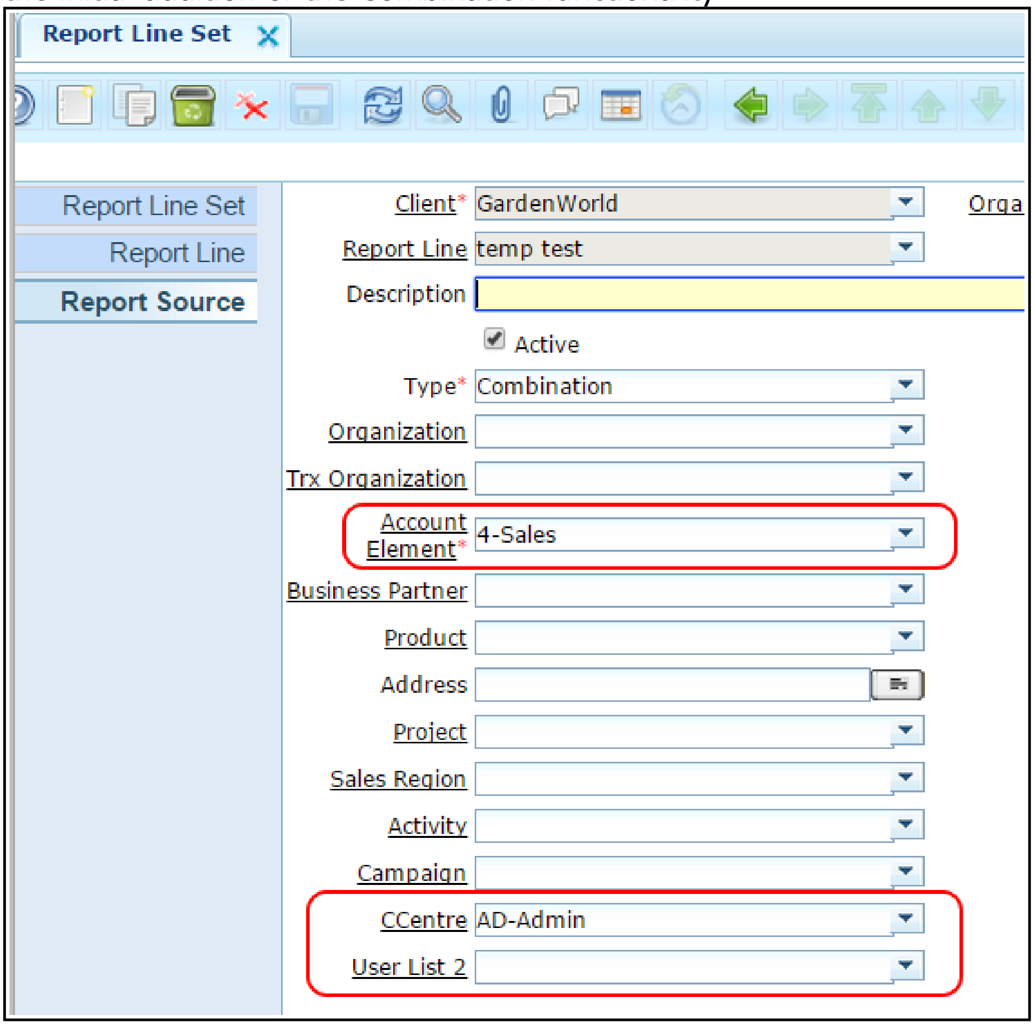
choices are:



Filtering Report Columns to create Cross Tab type reports……
The same filtering that works in Report Lines is now added to Report Columns. This example shows printing only the values for the Cost Centre of Marketing. Costs Centre is implemented using 'User List1' element



Combination extended to use UserList1 and UserList2
In the Report Source, if you select a Combination you can now use User List1 (CCentre below) and UserList2 in the Combination .. for some reason they were not made usable in the initial addition of the Combination functionality.



The report below shows column filtering in a report. Below, column 1 picks up all the Marketing Cost Centre costs, column 2 the Admin Cost Centre etc

ADempiere **Income Statement with Cost Centre** **Page 1 of 2**

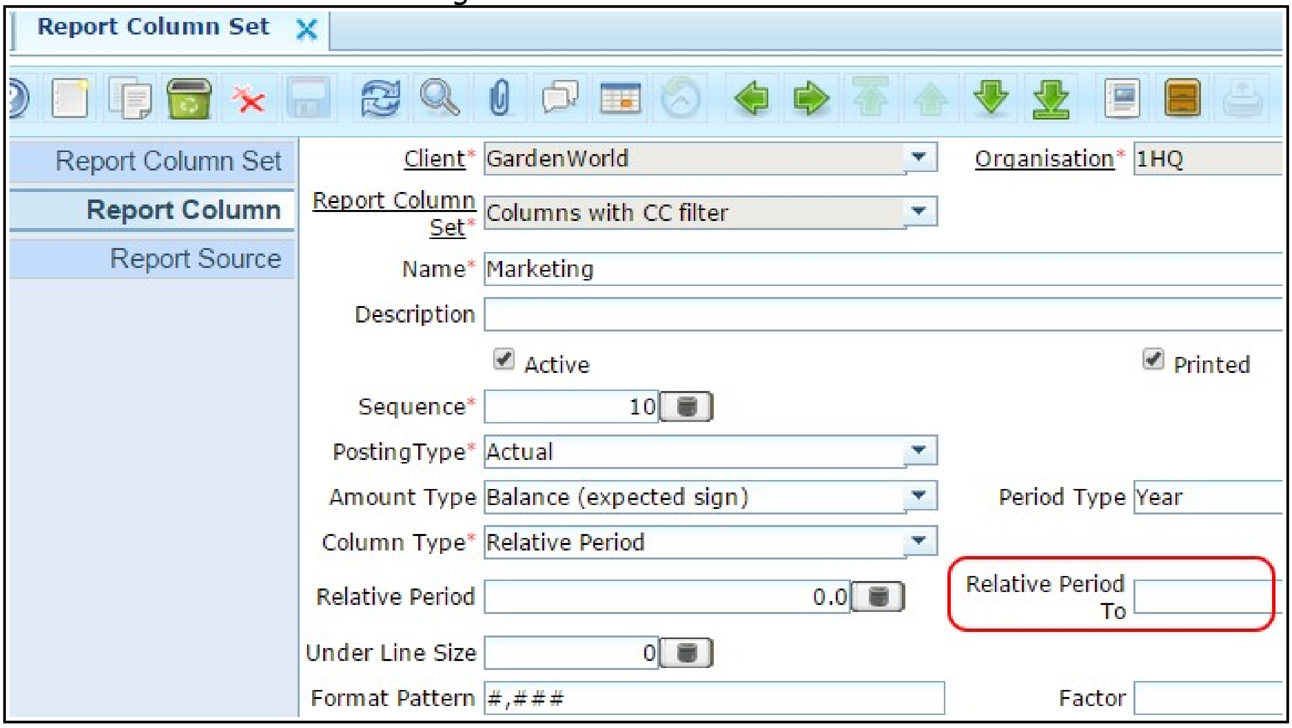
Parameter:

Period = 2015-08
Details/Source First = Yes
Report Cube = Org+Account+CC

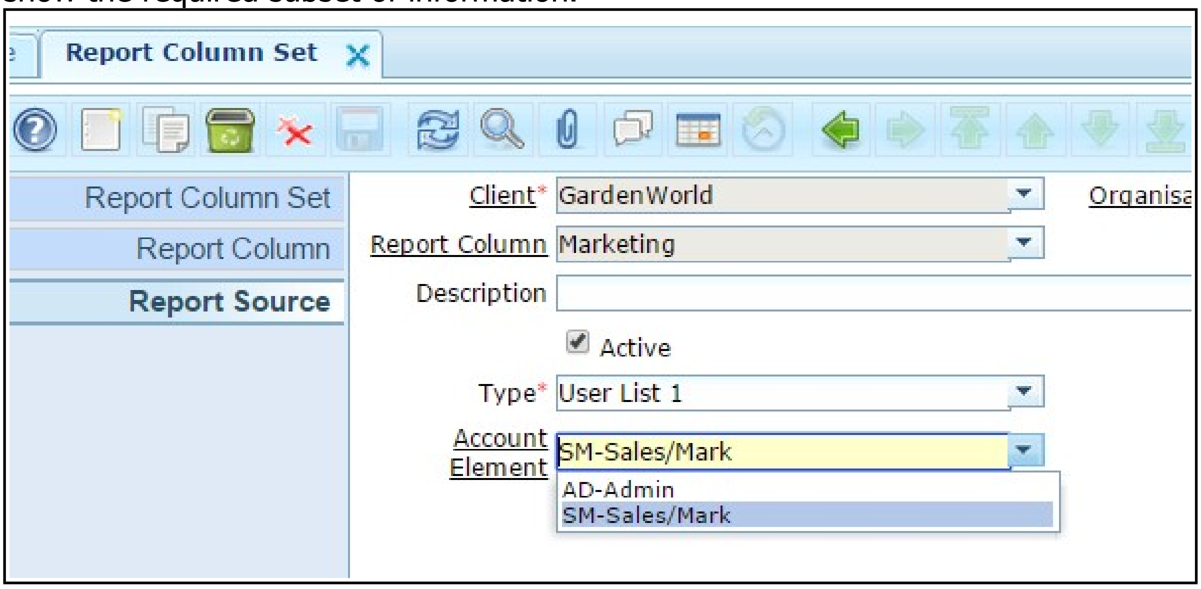
Name	Description	Marketing	Admin	Balance	Total
41000	Trade Revenue			102,145.49	102,145.49
43000	Sideline Revenue	5,000		100.00	5,100.00
49700	Charge revenue			8,800.00	8,800.00
SALES		5,000		111,045.49	116,045.49
.				0.00	
51100	Product CoGs			115,554.31	115,554.31
51400	Inventory Clearing			7,793.76	7,793.76
56300	Inventory Adjustment			-2,678.50	-2,678.50
58100	Invoice price variance			1,827.35	1,827.35
58200	Purchase price variance			149.93	149.93
58300	Purchase price variance Offset			-149.93	-149.93
58600	Rate Variance			-72.00	-72.00
COGS				122,424.92	122,424.92
.				0.00	
MARGIN		5,000	0	-11,379.43	-6,379.43
.				0.00	
60910	Staff Gifts & Perks			1,200.00	1,200.00
61300	Other Occupancy Costs			-45.00	-45.00
66100	Data Processing Supplies			-1.00	-1.00
OPERATING EXPENSES				1,154.00	1,154.00
83100	Labor (Absorbed)			-1,665.13	-1,665.13
EXPENSES ABSORBED				-1,665.13	-1,665.13
75100	Education Course Fees			50.00	50.00
78100	Bad Debts Write-off			10.00	10.00
79600	Charge expense	9,998	9,999	2,151.00	22,148.00
7-EXPENSES		9,998	9,999	2,211.00	22,208.00

This filtering was done by adding the same filtering to Report Columns as was already available in Report Lines. Note the "Report Source" tab now added to Report Column Set window.

Relative Period columns extended....
Report Column tab is extended by the addition of a "Relative Period To" which allows you to specify a column to display (say) the last 3 months by setting.
Note that the format for entering the months is "From -3 ... To -1"   NOT from -1 to -3.

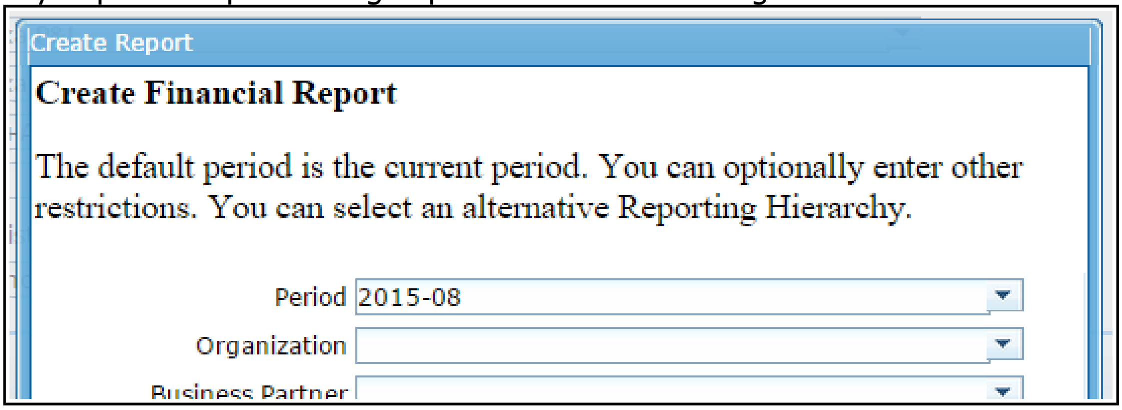


The new Report Source tab ....
works the same way as in the the Report Line Set and allows a column to be filtered to show the required subset of information.

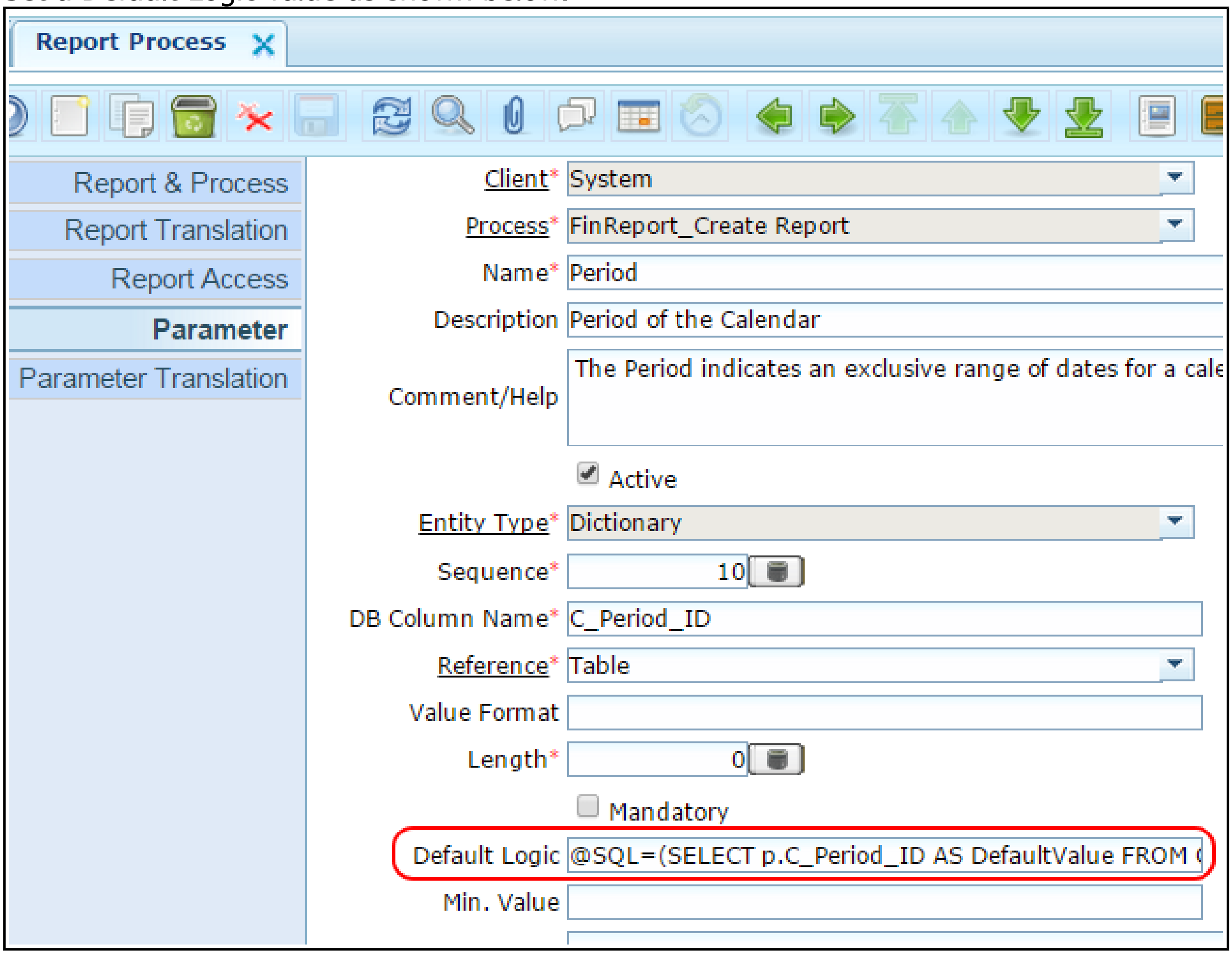


Automatic selection of Report Period ….
SQL used to “find the month we are in today and subtract 1 month” since we are probably reporting on the just-finished month 90% of time.

If you print a report during September 2015 then 'August 2015' is defaulted into 'Period'.



Set a Default Logic value as shown below.



@SQL=(SELECT p.C_Period_ID AS DefaultValue FROM C_Period p JOIN C_Year y ON y.C_Year_ID=p.C_Year_ID WHERE p.StartDate <= now() - interval '1 month' AND p.EndDate >= now() - interval '1 month' AND y.C_Calendar_ID=@C_Calendar_ID@)

Trial Balance Report for GardenWorld

The following shows a way to create a Trial Balance Report in ADempiere Financial Report Writer.

Report line set ... note the Period Types set as "Natural" .. this is critical.

Name	Descri	Active	Printed	Seque	Line Type	Calculation	Operand 1	Operand 2	Pc	Bu	Amount Type	Period Type
Balance Sheet Accounts		✓	✓	10	Segment Value						Balance (accounted sign)	Natural
Prior Year not tfrd to Ret Earnings		✓	✓	20	Calculation	Subtract (Op1-Op2)	Total P&L all years	P&L Items Current Year				
Total Balance Sheet Accounts		✓	✓	20	Calculation	Add (Op1+Op2)	Balance Sheet Accounts	Prior Year not tfrd to Ret Earnings				
.		✓	✓	30	Blank	Add (Op1+Op2)						
P&L Items Current Year		✓	✓	100	Segment Value						Balance (accounted sign)	Natural
Total P&L all years		✓		110	Segment Value						Balance (accounted sign)	Total

Report Source for Balance Sheet Accounts

	Active	Type	Orgar	Includ	Trx	Inclu	Account Element	Include N	B
	✓	Account					1-Assets		
	✓	Account					2-Liabilities		
	✓	Account					3-Owner's Equity/Net Worth		

Report Source for P&L Items Current Year

	Active	Type	Orgar	Includ	Trx	Inclu	Account Element	Include
	✓	Account					4-Sales	
	✓	Account					5-Cost of Goods Sold	
	✓	Account					6-Expenses	
	✓	Account					7-7-Expenses	
	✓	Account					80-Other Income	
	✓	Account					82-Other Expense	
	✓	Account					83-Expense (Absorbed)	
	✓	Account					89-Income Tax & Summary	

Report Source for P&L All Years

	Active	Type	Orgar	Includ	Trx (	Inclu	Account Element	Include
	☑	Account		☐		☐	5-Cost of Goods Sold	☐
	☑	Account		☐		☐	4-Sales	☐
	☑	Account		☐		☐	6-Expenses	☐
	☑	Account		☐		☐	7-7-Expenses	☐
	☑	Account		☐		☐	80-Other Income	☐
	☑	Account		☐		☐	82-Other Expense	☐
	☑	Account		☐		☐	83-Expense (Absorbed)	☐
	☑	Account		☐		☐	89-Income Tax & Summary	☐

Report Column - note that the "Period Type" of "Total" is overwritten by the equiv in the lines. Note the use of "Amount Type" must be "Balance (accounted sign)"

Report Column Set
Report Column
Report Source

Client*	GardenWorld	Organisation*	*
Report Column Set*	Trial Balance		
Name*	Total		
Description			
☑ Active		☑ Printed	
Sequence*	50		
PostingType*	Actual		
Amount Type	Balance (accounted sign)	Period Type	Total
Column Type*	Relative Period		
Relative Period	0.0	Relative Period To	
Under Line Size	0		
Format Pattern		Factor	

How it works

'Balance Sheet accounts' gets all the account starting with 1, 2 and 3.
As the Amount Type is 'Balance (accounted sign)' the credits are negative so these accounts can just be totalled.
As the Period Type is Natural for balance sheet accounts it will grab the 'Total' cumulative value for all periods.
The P&L Items 'Current year' does the same for P&L accounts and as the Period Type is Natural it grabs the 'Year' values not the 'Total'.
An unprinted column then does the same calc but using the 'Total' for all years. If there is a difference between 'P&L items for all years' and 'P&L items for the current year' then the difference appears in the row "Prior Year Not Transferred"

so ......
+ Balance Sheet accounts
+ (P&L for all periods - P&L for this fin year)
= Shareholders funds

= P&L Accounts for this fin year

report looks like...

Adaxa **Trial Balance** Page 1 of 2

Parameter:

Report Cube = Org+Account
Period = 2015-12
Details/Source First = Yes

Name	Description	Total
11100	Checking Account	6,211.60
11110	Checking In-Transfer	3,234.00
11130	Checking Unallocated Receipts	-3,290.00
11200	Checking Account 2	1.00
11900	Petty Cash	0.35
11910	Petty Cash In-Transfer	0.00
12110	Accounts Receivable - Trade	143,624.15
12420	Loans Receivable Owners/Shareholders	1,000.00
12800	Intercompany Due From	144.00
14120	Product asset	-16,662.80
17690	Asset Additions	600.00
21100	Accounts Payable Trade	-65,874.65
21101	Tree Farm Payable	-4,217.50
21190	Not invoiced receipts	-57,297.84
21300	Payment selection	0.00
21505	Unearned revenue	-24,066.67
21510	Customer Prepayments	-4,533.60
21610	Tax due	-104.41
21622	Tax suspense for Consolidation	70.00
21800	Intercompany Due To	-144.00
22900	Accrued Expenses Others	-100.00
31000	Capital/Common Stock	-1,000.00
32900	Retained Earnings	-499.93
Balance Sheet Accounts		-22,906.30
Prior Year not tfrd to Ret Earnings		-2,000.00
Total Balance Sheet Accounts		-24,906.30
41000	Trade Revenue	-105,316.49
43000	Sideline Revenue	-5,100.00
49700	Charge revenue	-8,800.00
51100	Product CoGs	115,554.31
51400	Inventory Clearing	7,793.76
56300	Inventory Adjustment	-2,678.50
58100	Invoice price variance	1,827.35
58200	Purchase price variance	149.93
58300	Purchase price variance Offset	-149.93
58600	Rate Variance	-72.00
60910	Staff Gifts & Perks	1,200.00
61300	Other Occupancy Costs	-45.00
66100	Data Processing Supplies	-1.00
75100	Education Course Fees	50.00
78100	Bad Debts Write-off	10.00
79600	Charge expense	22,149.00

ADempiere® SuperUser@GardenWorld.1HQ [0.0.0.0|localhost-adempiere-adempiere}] 16/09/2015 7:00:04 PM

Adaxa **Trial Balance** Page 2 of 2

Name	Description	Total
83100	Labor (Absorbed)	-1,665.13
P&L Items Current Year		24,906.30

You could add a Report Line for 'Total Balance Sheet Accounts - P&L Items in Current Year' to print a zero balance at the end of the report.

Changes to the List Report Writer

List Report Writer Modifications

The List Report Writer has been modified to support Header/Content/Footer more generally. This allows better looking reports to be created more easily.

Example:
Inventory Valuation Report with Header and Footer

Inventory Valuation

Warehouse: HQ Warehouse Price List Version: Purchase 2013
Currency: USD Valuation Date: 30/09/2015

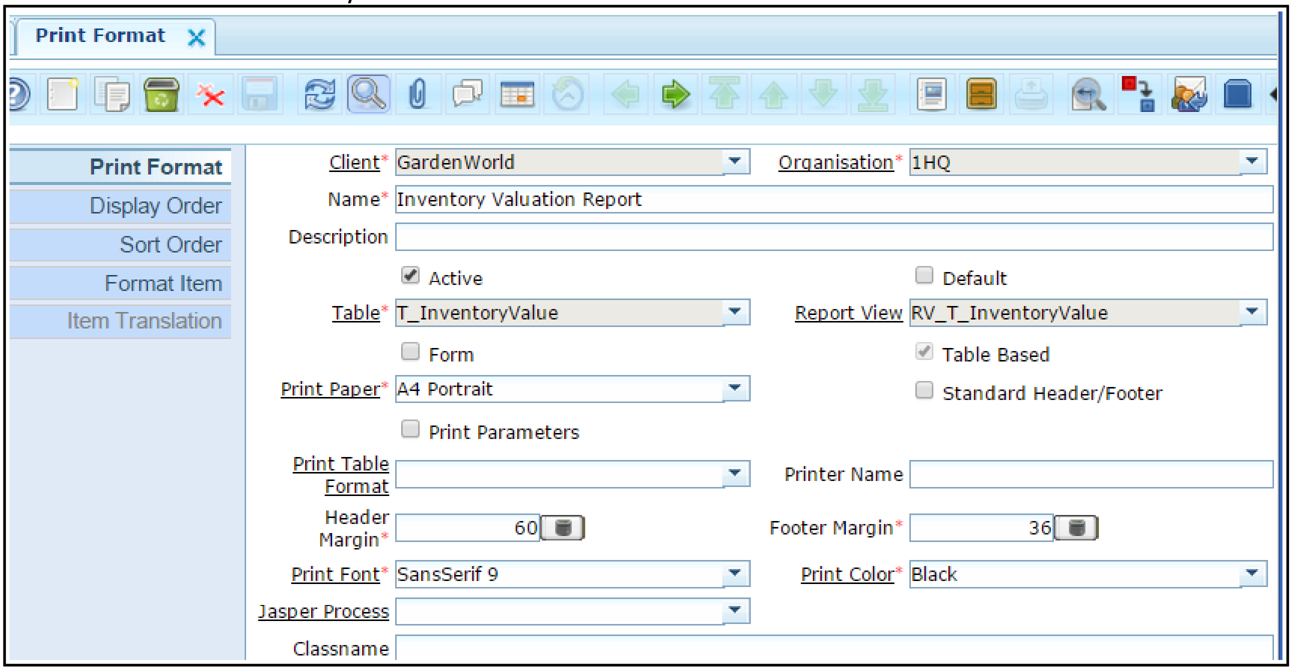
Product	On Hand Qty	Standard Cost	StdCostValue
Azalea Bush - Azalea Bush	100	15.00	1,500.00
Elm - Elm Tree	100	7.00	700.00
Fertilizer#50 - Fertilizer #50	-96	0.001	-.10
Fertilizer#50 - Fertilizer #50	4	18.00	72.00
Fertilizer#50v2 - Fertilizer #50 v2	113	25.00	2,825.00
Fertilizer#70 - Fertilizer #70	100	30.00	3,000.00
Grass - Grass Seed Container	100	48.00	4,800.00
Hoe - Hoe 4 ft	100	12.75	1,275.00
Holly Bush - Holly Bush	100	24.00	2,400.00
Mulch - Mulch 10#	78	2.70	210.60
Nitrogen - Nitrogen	50	0.001	.05

<snip>

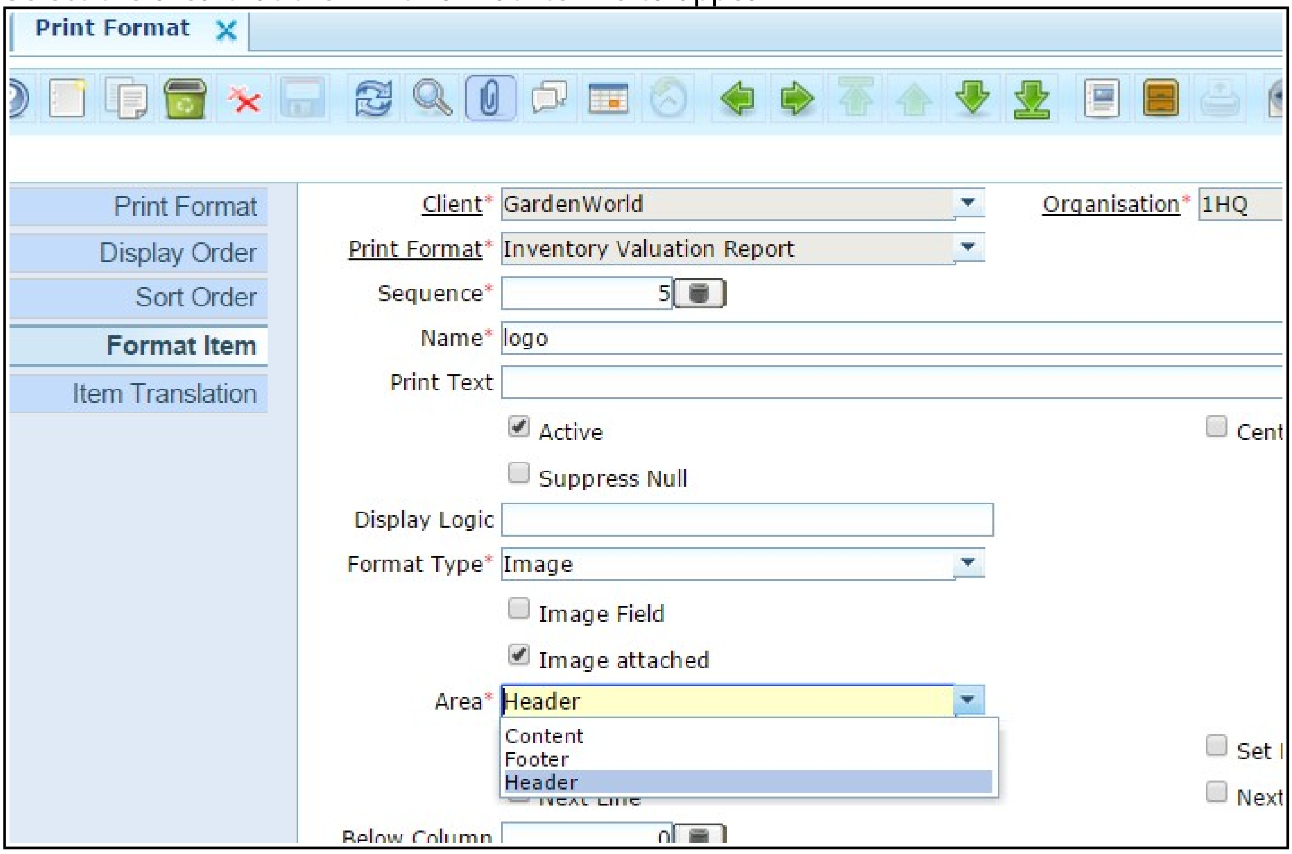
TShirt-GL - TShirt - Green Large	100	1.10	110.00
TShirt-RL - TShirt - Red Large	100	1.10	110.00
Weeder - Weeder	100	2.55	255.00
zzzzzz12mth - xxxxxxx12 mth revenue recognition	-1	0.001	-.00
			40,519.42

1/1

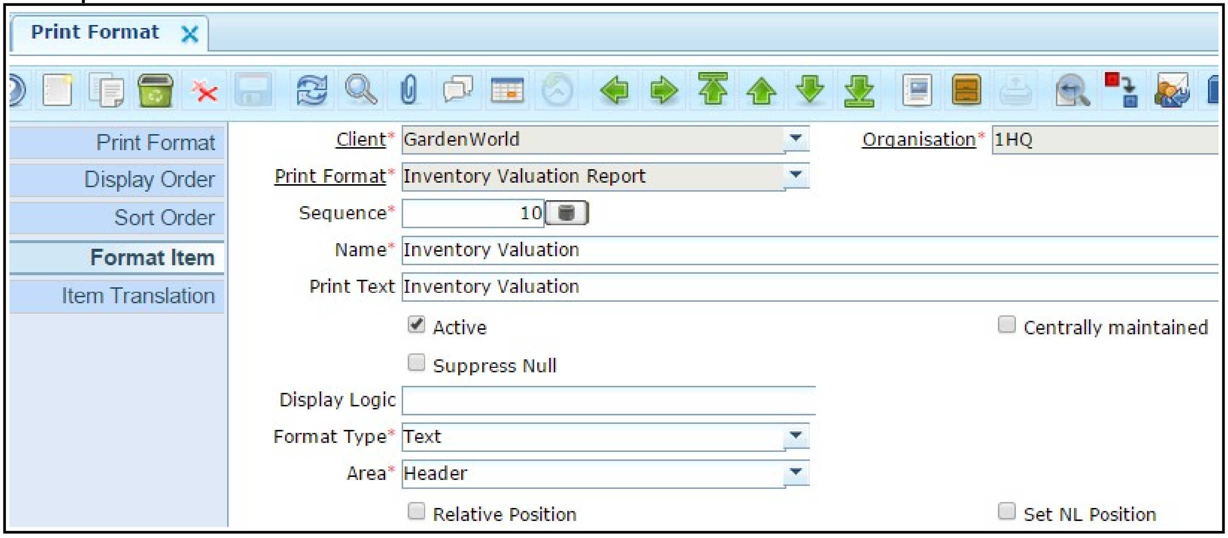
Using Header and Footer in standard reports....
untick “Standard Header/Footer” and “Print Parameters”



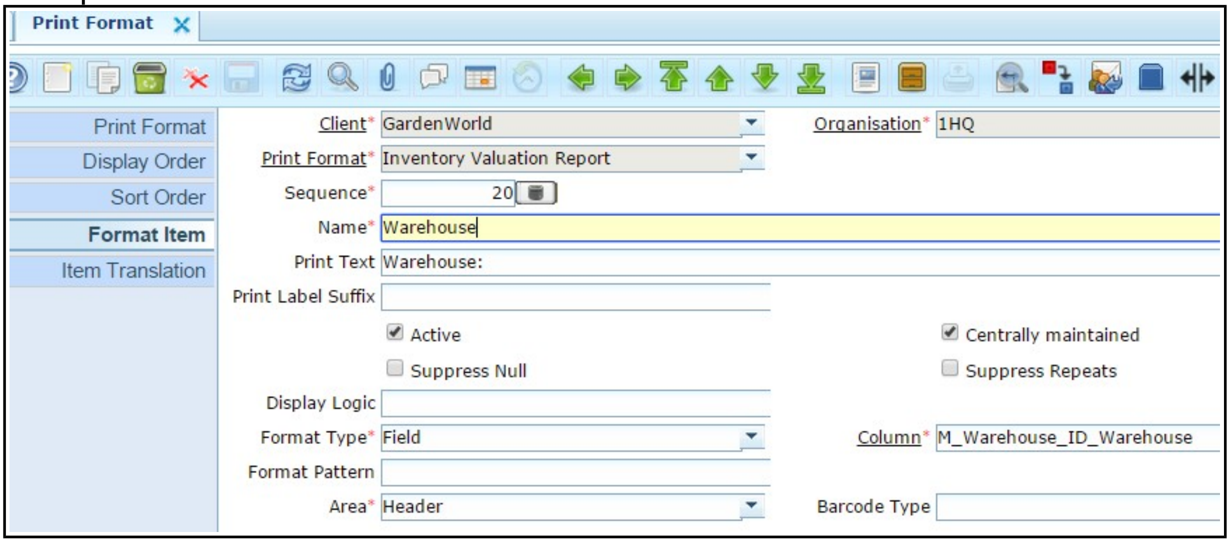
Select the area that the Print Format Item is to appear in.



example of header field #1



example of header field #2



example of content field #1