



How to – Financial Reports and **Reports Cube**



DOCUMENT SUMMARY SHEET

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1 Introduction

1.1 The Financial Report Writer, a Worked Example

The following is a worked example of using the Adempiere Financial Report Writer to achieve a simple report with a reasonably pleasing appearance.

It was prepared primarily using version 352a alpha release and uses some features introduced in that version.

We have also added a new section exploring "Report Cubes" which are available in version 3.60. Report Cubes allow the creation of highly summarised data using user-selected dimensions. The Report Cube can be used as a source of data for the Financial Report Writer or the data can be exported using the Cube Viewer.



2 Report Set Up and Usage

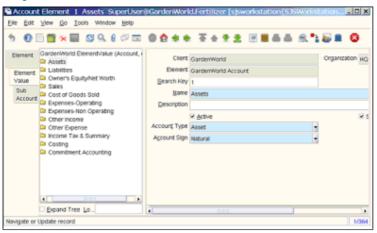
2.1 Example Trading Statement

Dempiere Parameter: Period	Trading Statement - Actuals, M	lonth and YTD	Page 1 of 1
Details/Sou	rce First = Yes		
Name	Description	Mth-Dec-08	YTD-Dec-08
41000	Trade Revenue	306	8,406
49700	Charge revenue	3,000	3,000
Revenue		3,306	11,406
51100	Product CoGs	360	360
51200	Product Expense	125	125
51400	Inventory Clearing	255	255
51800	Commissions Paid	1,833	2,932
58100	Invoice price variance	-730	-730
COGS		1,843	2,942
Gross Margin		1,463	8,464
60130	Salaries	500	500
64200	Accounting Fees	15	15
Expenses-Operating		515	515
70200	Bank Service Charges	-100	-100
79600	Charge expense	200	200
Expenses-Non Operati	ng	100	100
Total Expenses		615	615
80100	Interest income	52	52
Other Income		52	52
82700	Capital Gains Loss	28	28
Other Expense		28	28
Total - Other		80	80
Total Expense		695	695
Result Before Tax		768	7,769
Тах			
Result After Tax		768	7,769



2.2 Report Set-up Steps.

2.2.1 Report Trees



The Report Writer will utilise the reporting hierarchy defined in the Trees maintained in Adempiere. Note that we are creating a report based on the Account Element tree but could have alternatively created a report using other dimensions like Product and Business Partner.

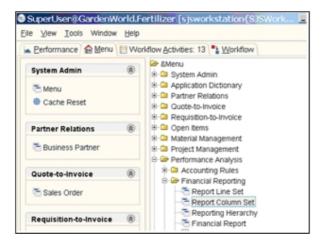
For the Report Writer to work effectively the relevant tree must be logically defined.

2.2.2 A more exploded view of the Tree

• • • • • • • • • • • • • • • • • • •	96** <u>***</u> * ====) 🔣 📑 🔯 🔳 🥹
Element Garder/World ElementValue (Accour Assets Element Garder/World ElementValue (Accour Garder/World Use) Garder/S Equily/Net Worth Sub	Client GardenWorld Element GardenWorld Account Search Key (g2 Bane Other Expense Description	Organization HC
	Active Expense Account Type Natural	



2.3 The Financial Reporting Menu



2.4 Create a Financial Report Column Set

Select Report Column Set.

9 0	i 📷 🛪 📰	😂 9. l 🕫 📼 🔯 🚖 🔶	**** *****
Report Column Set	Client	GardenWorld	Organization Fertilizer
Report Column	Name Description	Mth and YTD	
		✓ Active	
		Active Copy Columns	



2.4.1 Create the Report Columns

Elle Edit 3	olumn Set Mith- Vew <u>G</u> o Icols V	gilveriodigi Suj Vindow Belp	perUser@	sandianWi	orid.Fertiliz	er (sjsworksta	tion(steworks	
5.0) 🗃 🗙 📰 😒	9. 8. 🕫 📼	0 🗙 🕯	* *	* ± ±	8 8 6 8	۵. 🔁 😹 🖿	8
Report Column Set		GardenWorld			Organization	Ferblizer		
Report	Report Column Set							
Column	Name	Mth-@Period@						
	Description							
		✓ Active				Printed		
	Sequence			10 .				
	PostingType	Actual		-				
	Amount Type	Period Balance		•				
	Column Type	Relative Period		-				
	Belative Period			0.0				
	Eormat Pattern	* ***			Factor			

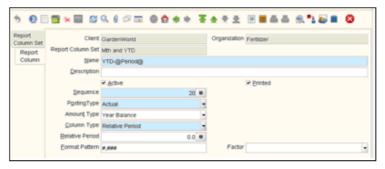
• The Name field is using the @Period@ to pick up the Period Name

•The Format Pattern is set to #,###. This says "print in whole dollars and use commas to separate the thousands.

•If the numbers were large enough you could also select "Factor" and choose rounded thousands or millions.

The standard Java number and date formats are supported in the Format Pattern field.

2.4.2 The "Year to Date" column definition





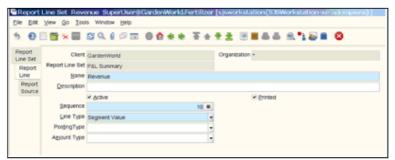
2.5 The Report Lines

2.5.1 The Report Line Set

Select Report Line Set from the menu and create a record.

		L Summary Loois Window		angeGar	Genwo	no.rerti	nzer (s)	SWURKSL	0.000148	0.51900	KSLin Ja	1013
9.00	i 🖬 🛪 🛛	1 1 I I I I I I I I I I I I I I I I I I	0 📼	0 🟚	**	Ŧ +	* ±		6 6	<u>s</u> .•	i 🔊 🖿	8
Report Line Set	Client	Garder/World				Organiz	ation •					
Report	Name	P&L Summary										
Line	Description											
Report		Active										
Source			Copy Line	5								

2.5.2 The Report Line





2.5.3 Report Source for the Line

0) 📷 🛪 📰 🕯	39.10= 00++ 7++ 8=55 8.10= 0
Report Line Set	Client	CandentWorld Organization +
Report	Report Line	Revenue
Line	Description	
Report		✓ 8ctive
Source	Lype	Account -
	Account Element	4-Sales •

2.5.4 A Line Record that Prints a Blank Line

0	i 📷 🛪 🔤	39. L = = 0 0 + + ¥ + * ± 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Report Ine Set	Cient	GardenWorks Organization -
Report	Report Line Set	P&L Summary
Line	Name	
Report	Description	
Source		K Athre K Brited
	Sequence	11 .
	Line Type	Segment Value -
	PostingType	
	Amount Type	

The Line Name is a space character – it prints about a half line space. If you use a " . " instead it will leave a whole line space.



2.5.5 A Line with a Calculation

0	i 🖬 🛪 📰	39. (2 11 0 0 * * 7 * 7 ± 11 11 11 11 11 11 11 11 11 11 11 11 1
Report Line Set		GardenWorld Organization -
Report	Report Line Set	P&L Summary
Line	Same	Gross Margin
Report Source	Description	
		¥ Active ¥ Brinted
	Sequence	30 .
	Line Type	Calculation
	Calculation	Subtract (Op1-Op2)
	Operand 1	Revenue

2.5.6 The "working parts" of the Report Lines Set

2 🖸 📵 🔂 🌲 🔶	至 (1 🕈 🗶 🗏 🖩 🖷 d	5 🔍 📲 🛃 🔳	8	
Name	D	SequenceLine Type	Calculation	Operand 1	Operand 2
Revenue		10 Segment Value	Add (Op1+Op2)		
		11 Segment Value	Add (Op1+Op2)		
COGS		20 Segment Value	Add (Op1+Op2)		
		21 Segment Value	Add (Op1+Op2)		
Gross Margin		30 Calculation	Subtract (Op1-Op2)	Revenue	COGS
		40 Segment Value	Add (Op1+Op2)		
Expenses-Operating		50 Segment Value	Add (Op1+Op2)		
		60 Segment Value	Add (Op1+Op2)		
Expenses-Non Operating		70 Segment Value	Add (Op1+Op2)		
		80 Segment Value	Add (Op1+Op2)		
Total Expenses		90 Calculation	Add (Op1+Op2)	Expenses-Operating	Expenses-Non Operating
		100 Segment Value	Add (Op1+Op2)		
Other Income		110 Segment Value	Add (Op1+Op2)		
Other Expense		120 Segment Value	Add (Op1+Op2)		
		121 Segment Value	Add (Op1+Op2)		
Total - Other		130 Calculation	Add (Op1+Op2)	Other income	Other Expense
Total Expense		140 Calculation	Add (Op1+Op2)	Total Expenses	Total - Other
		141 Segment Value	Add (Op1+Op2)		
Result Before Tax		150 Calculation	Subtract (Op1-Op2)	Gross Margin	Total Expense
Tax		160 Segment Value	Add (Op1+Op2)		
		161 Segment Value	Add (Op1+Op2)		
Result After Tax		170 Calculation	Subtract (Op1-Op2)	Result Before Tax	Так

Note: any words in the 'Calculation' column where Segment Value is shown in the Line Type column are not required and not shown when you view in Form view.



2.6 Create the Report

~ ~	1 1 × 🖬 🗙	9. 8 🕫 📼 📓 🕯 🚸 著	***	8 = 4 4 8 1 2 2 = 8
Financial Report	Client	GardenWiorid	Organization	Ferbizer
Report	Accounting Schema	GarderiWorld US/A/US Dollar	⊆alendar	Garder/World Calendar
	Name	Trading Statement - Actuals, Month and YTI	>	
Descriptio				
		¥ Active		
	Report Line Set	P&L Summary		
	Report Column Set	Mth and YTD		
	Jasper Process			
		✓ List Sources		List Transactions
	H Action			
		Create Report	Print Format	Trading Statement - Arbuais, Month and YTE

2.6.1 Run the Report

Select the desired parameters.

Create Report			X
Create Financial Rep	ort		
The default period is th alternative Reporting H	e current period. You can opti ierarchy.	onally enter other restrictio	ns. You can select an
Period	Dec-08	·	
Organization]	-	
Business Partner		-	
Product		-	
Project		-	
Activity		-	
Sales Region			
Campaign		-	
	Details/Source First		
Reporting Hierarchy		•	
			XV

The report output will come to the screen as a print preview.



2.6.2 Modify the Print Format

Click on the "Customize Report" button when looking at the print preview. Notice the Print Table Format. Zoom to it and it is set up as follows and then select it.

0 🗆 (🖥 🛪 🔲 😂 📓	0 0 = 0 0 * *	Ŧ	4 T I I	9 8 6 6 8 1 5 6 8 0
Print Format		Garden/World		Organization	Fertilzer
Display Order	Description	Frading Statement - Actuals, Month	and	TD	
Sort Order		¥ <u>6</u> ctive		Export View	Dgfaut
Format Bern		T_Report_T_Report			S Table Based
ten Translation	Erint Paper Print Table Format			Printer Name	Standard Header/Footer
		SansSent bold 10		Print Color	Black
	Jasper Process	Copy/Create	•		
	Cjassname	Capporeae			
	Args				

2.6.3 Create a Print Table Format

ኃ. 🖸 📃	📷 🛪 📖 🕄 🐘	🧯 🕫 📼 🔞 🧙 🚸 🚸	Ŧ	e 🛨 🗄 🗏 🕯	6 de 🔍 🎝 🕹 🛢	8
Print	Client	GardenWorld		Organization		
Table Format		list report				
	Description					
		¥ Active			Default	
	Header Row Color	Diack		Header Row BG Color	Gray white	
	Header Row Eont	Dialog bold 10			Multi Line Header	
		Reader Lines		Header Line Color		
	Header Stroke Type	Solid Line		Header Stroke		2.0
		Paint Vertical Lines			Paint Hortzontal Lines	
		Paint Boundary Lines		Line <u>C</u> olor	Gray white	
	Line Strgke Type	Solid Line		Line Stroge		1.0
		Print Function Symbols				
	Function Color	Black	•	Function BQ Color	Gray white	
	Function Font	Dialog bold 11	-			
		image attached		image URL		
	image					

Then select the Print Table Format into the Print Format.



3 The Report Output

ADempiere Parameter:	Trading Statement - Actuals, N	Nonth and YTD	Page 1 of
Period	= Dec-08		
Details/Sou	irce First = Yes		
Name	Description	Mth-Dec-08	YTD-Dec-08
41000	Trade Revenue	306	8,406
49700	Charge revenue	3,000	3,000
Revenue		3,306	11,406
51100	Product CoGs	360	360
51200	Product Expense	125	125
51400	Inventory Clearing	255	255
51800	Commissions Paid	1,833	2,932
58100	Invoice price variance	-730	-730
COGS		1,843	2,942
Gross Margin		1,463	8,464
60130	Salaries	500	500
64200	Accounting Fees	15	11
Expenses-Operating		515	515
70200	Bank Service Charges	-100	-100
79600	Charge expense	200	20
Expenses-Non Operat	ing	100	10
Total Expenses		615	611
80100	Interest Income	52	5
Other Income		52	52
82700	Capital Gains Loss	28	20
Other Expense		28	28
Total - Other		80	80
Total Expense		695	691
Result Before Tax		768	7,769
Тах			
Result After Tax		768	7,769



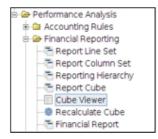
3.1 The Summary Report

Dempiere	Trading Statement - Actua	als, Month and YTD	Page 1 of
Parameter:			
Period	= Dec-08		
Details/Sou	rce First = Yes		
Name	Description	Mth-Dec-08	YTD-Dec-08
Revenue		3,306	11,406
COGS		1,843	2,942
Gross Margin		1,463	8,464
Expenses-Operating		515	515
Expenses-Non Operati	ing	100	100
Total Expenses		615	615
Other Income		52	52
Other Expense		28	28
Total - Other		80	80
Total Expense		695	695
Result Before Tax		768	7,769
Tax			
Result After Tax		768	7,769



4 The Report Cube

The Report Cube appears in the Menu as below

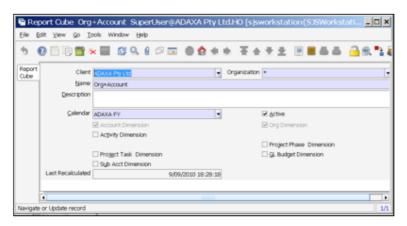


4.1 Financial Report Data Sources

A Financial Report can be run directly from the underlying accounting transactions or it can be run from a user defined foll-up of the accounting transaction values. The standard report writer process pre-processes all the accounting transactions and summarises them in a database view that creates one row of data per day, per account, per organisation, per product, per business partner. In fact it groups over about ten dimensions. As a result an initial dataset of say 1 million rows will summarise down to possibly 700,000 rows in the view. If you are creating say a balance sheet then the groupings by all elements except account code are redundant.

Adempiere provides a means to reduce the amount of data considered by the report writer and thus speed up the creation of financial reports. This functionality is referred to as the Report Cube.

4.2 The Report Cube Window





In the Report Cube window you define the level of detail that is relevant to your report by ticking the required data element items and selecting a Calendar. The Calendar will have defined periods and the report cube will be constructed with a single value per report period (rather than a value per day) for each of the required data dimensions. Note that only dimensions that are activated in the Account Schema will be displayed for selection.

4.3 Refreshing the Report Cube

# Recalc	ulate Fact Sumr	nary	_ 🗆 ×
Recalculate s	ummary facts based	on report cube de	finitions.
Report cube	Org+Account Full rebuild Force	•	•
		-	💛 Start

Select the desired Report Cube from the drop-down list and click the Start button. We suggest that you tick the the Full Rebuild and Force buttons. The Full Rebuild rebuilds the complete cube rather than trying to identify only periods that have changed. The Force button says "Ignore the fact that another user or process may have already initiated a recalculation of the cube".

4.4 Using the Report Cube in a Financial Report

Pinar 🖥	xial Report PL	By Year SuperUsen@ADAXA P	ty LtdJ	HO [sjswor	kstation{SJSWork	station-xe-a	-0>
Ele Edi	Yew Go Icols	Window Help					
5.0) 🗄 🗑 🗶 🕻	a 29. l 🕫 🔤 🖻 🕯	8.8	Ŧ±Ŧ	2 8866	<u>a</u> 🔊 🕈 🖉	
Financial Report		ADAXA Phy Ltd		Organization			
	Accounting Schema	Adana-MJD		Çəlendər	ADAXA FY		•
	Name	PGL By Year					
	Description						
		🗹 Active					
	Beport Line Set	P&L Curr Mth and YTD					
	Report Column Set	PSL By Year					
	Report Cube	Transcourt					
	Jasper Process						
		List Sources			List Transactions		
	E Action						
		Create Regort		Print Format	P&L By Year		



4.5 **Exporting Data from the Report Cube**

۲	Cube Viewer	
Create Financial Re	port	
	ne current period. You can optional native Reporting Hierarchy.	ly enter other restrictions.
Report Cube	•	
Acctg Schema	•	
Account Date Range	Ε -	Ξ
Organisation	-	
Business Partner	•	
Product	-	
Project	-	
Activity	•	
Sales Region	•	
Campaign	•	
User List 1	•	
User List 2	-	
Posting Type	•	
		🗳 😽 Start

Particular ranges of data from within a Report Cube can be selected for export to CSV files, Excel spreadsheets etc. In this case components of the Adempiere accounts codes that may not be in use in a particular Adempiere implementation will be displayed. If they are left blank then they have no impact and are interpreted as "select all".



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