

Adaxia



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

DOCUMENT SUMMARY SHEET

Document Type:	How To
Document Title	Financial Reports and Report Cubes
Document Summary:	This is the Adaxa HowTo Template which is used for the creation of HowTo documents. Proposals, white papers, reports, etc. will use the Adaxa Report Template
File Name:	
Created on:	
Created by:	Steven Sackett
Last Modified on:	Wednesday, 11 April 2012
Last Modified by:	

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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.

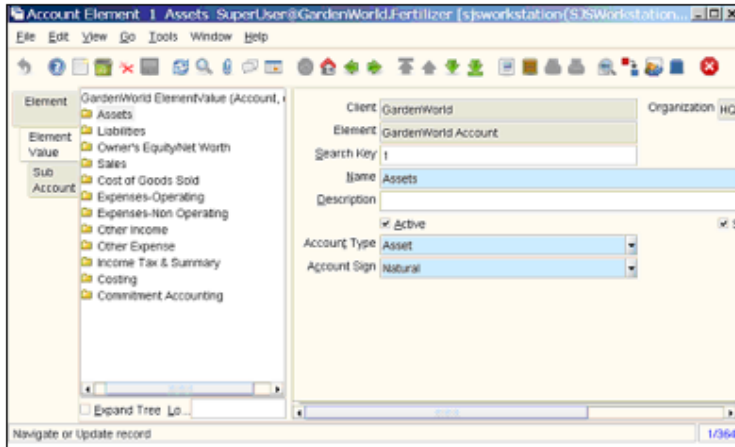
We have also added a new section exploring "Report Cubes" which are available in version 3.60. Report Cubes allow the creation of highly summarised data using user-selected dimensions. The Report Cube can be used as a source of data for the Financial Report Writer or the data can be exported using the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

2.1 Example Trading Statement

ADempires		Trading Statement - Actuals, Month and YTD		Page 1 of 1
Parameter:				
Period	=	Dec-08		
Details/Source 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 Operating		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	
Tax				
Result After Tax		768	7,769	

2.2 Report Set-up Steps.

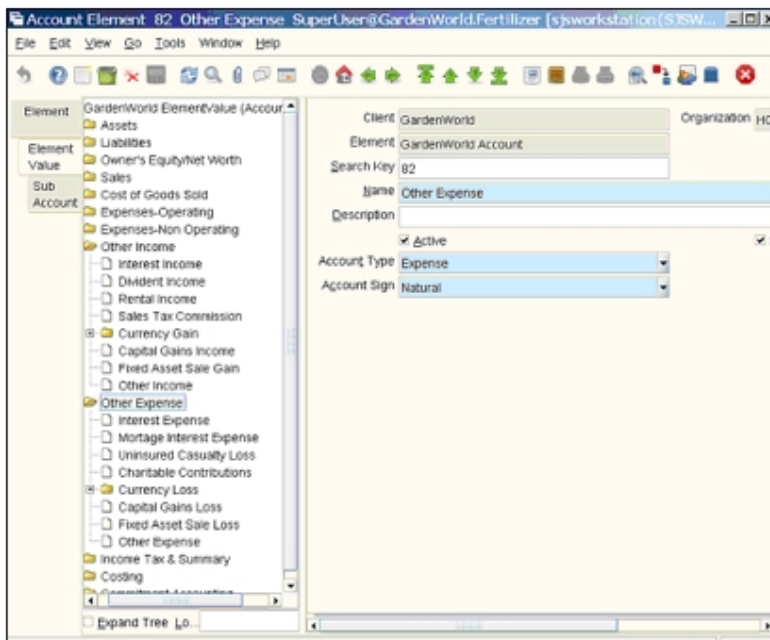
2.2.1 Report Trees



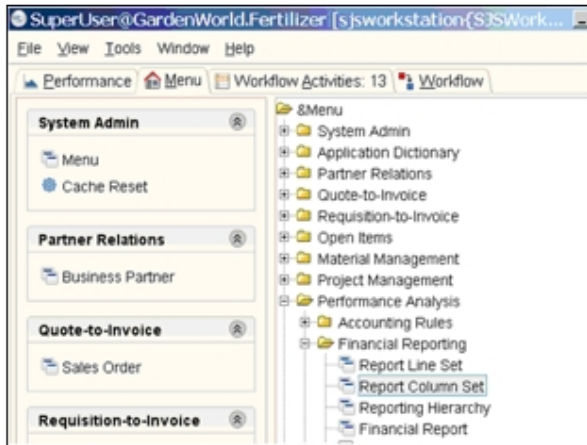
The Report Writer will utilise the reporting hierarchy defined in the Trees maintained in Adempiere. Note that we are creating a report based on the Account Element tree but could have alternatively created a report using other dimensions like Product and Business Partner.

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

2.2.2 A more exploded view of the Tree

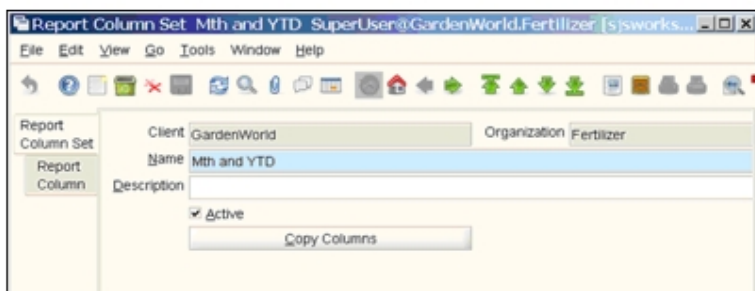


2.3 The Financial Reporting Menu

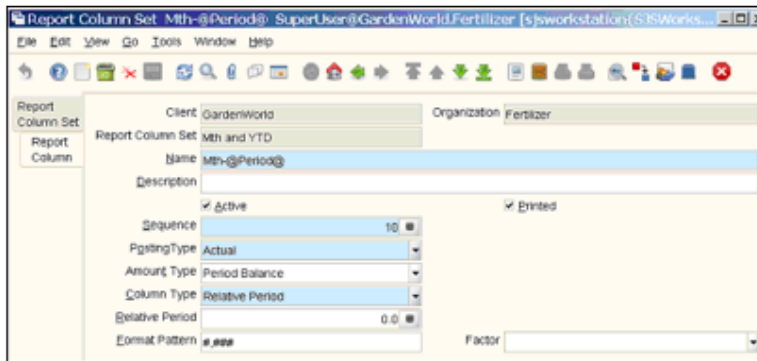


2.4 Create a Financial Report Column Set

Select Report Column Set.



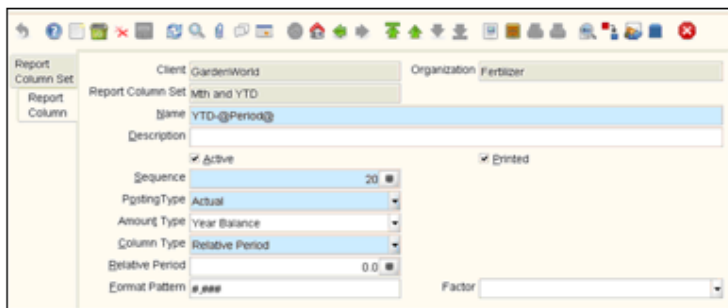
2.4.1 Create the Report Columns



- 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.

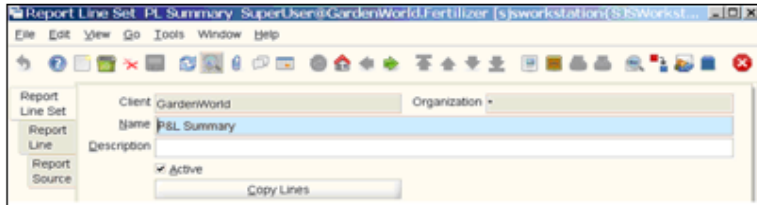
2.4.2 The "Year to Date" column definition



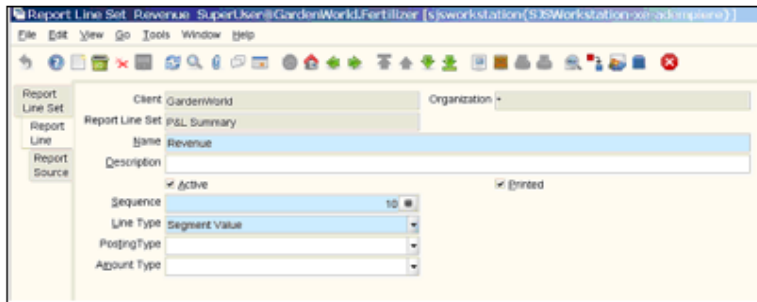
2.5 The Report Lines

2.5.1 The Report Line Set

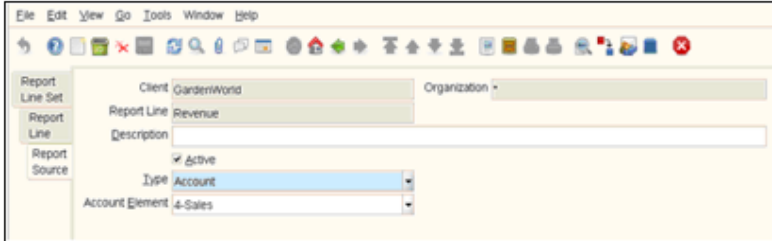
Select Report Line Set from the menu and create a record.



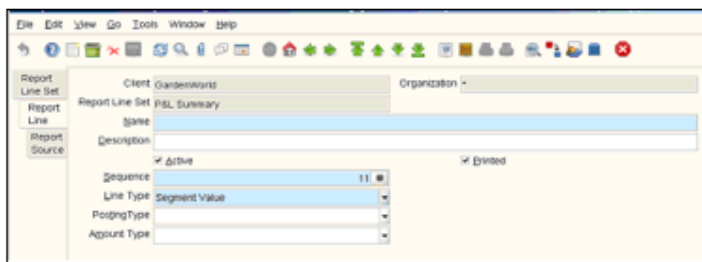
2.5.2 The Report Line



2.5.3 Report Source for the Line



2.5.4 A Line Record that Prints a Blank Line



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

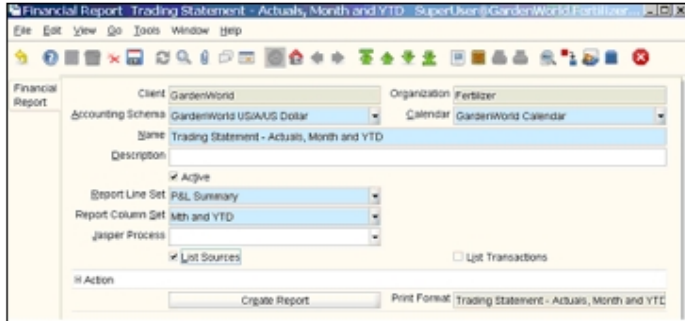
The screenshot shows the configuration for a report line named 'Gross Margin'. The 'Line Type' is 'Calculation' and the calculation is 'Subtract (Op1-Op2)'. The operands are 'Revenue' and 'COGS'. The 'Sequence' is 30. The 'Report Line Set' is 'P&L Summary' and the 'Client' is 'GardenWorld'.

2.5.6 The “working parts” of the Report Lines Set

Name	D...	Sequence	Line 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	Tax

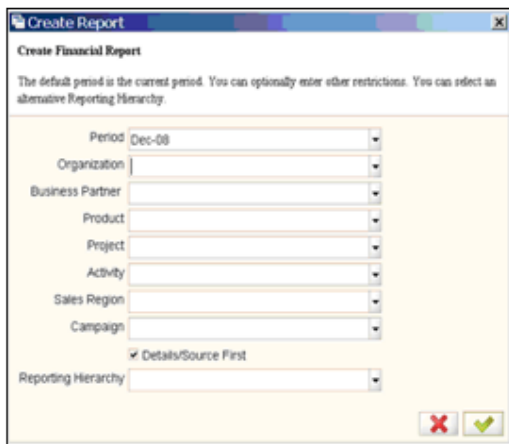
Note: any words in the 'Calculation' column where Segment Value is shown in the Line Type column are not required and not shown when you view in Form view.

2.6 Create the Report



2.6.1 Run the Report

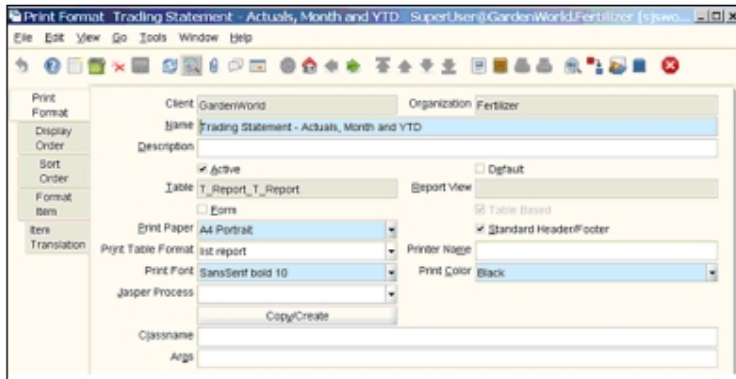
Select the desired parameters.



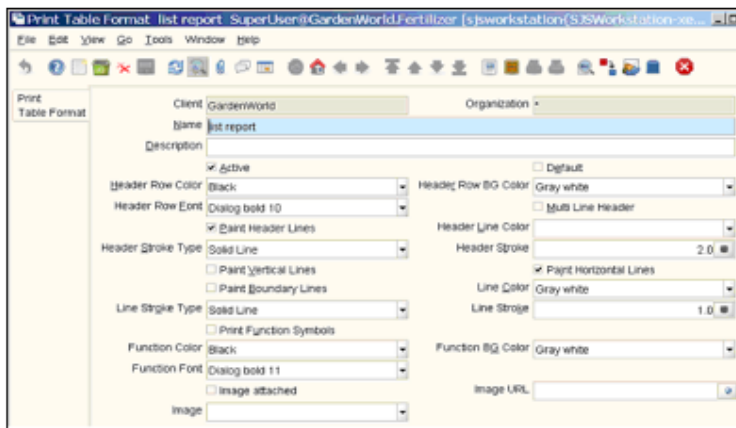
The report output will come to the screen as a print preview.

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.



2.6.3 Create a Print Table Format



Then select the Print Table Format into the Print Format.

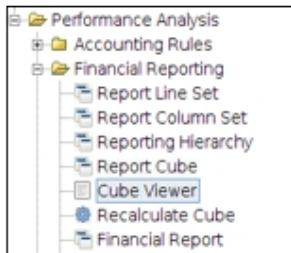
3 The Report Output

ADempire		Trading Statement - Actuals, Month and YTD		Page 1 of 1
Parameter:				
	Period	=	Dec-08	
	Details/Source First	=	Yes	
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3.1 The Summary Report

RDemplere		Trading Statement - Actuals, Month and YTD		Page 1 of 1
Parameter:				
<i>Period</i>		= Dec-08		
<i>Details/Source First</i>		= 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 Operating		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	

The Report Cube appears in the Menu as below

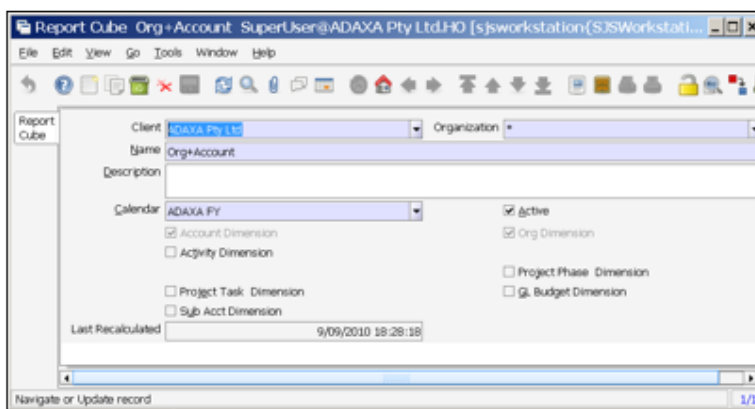


4.1 Financial Report Data Sources

A Financial Report can be run directly from the underlying accounting transactions or it can be run from a user defined follow-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.

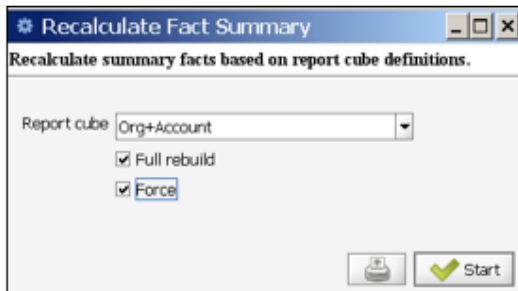
Adempire provides a means to reduce the amount of data considered by the report writer and thus speed up the creation of financial reports. This functionality is referred to as the Report Cube.

4.2 The Report Cube Window



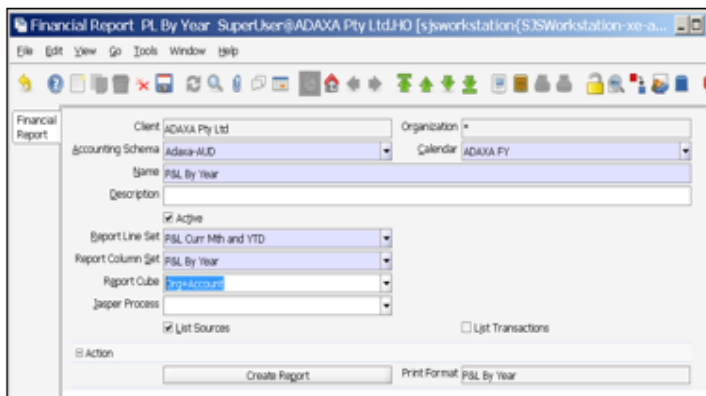
In the Report Cube window you define the level of detail that is relevant to your report by ticking the required data element items and selecting a Calendar. The Calendar will have defined periods and the report cube will be constructed with a single value per report period (rather than a value per day) 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

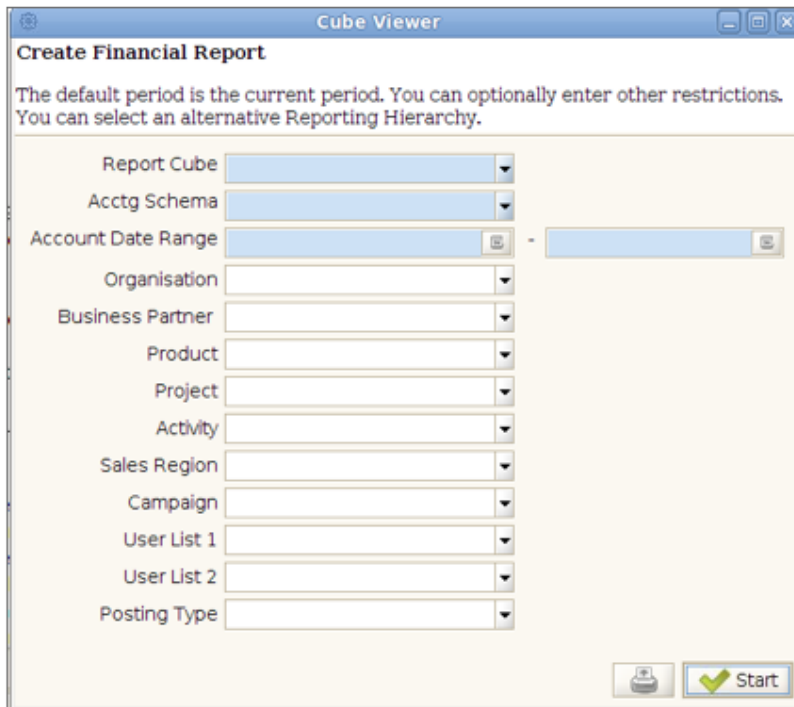


Select the desired Report Cube from the drop-down list and click the Start button. We suggest that you tick the the Full Rebuild and Force buttons. The Full Rebuild rebuilds the complete cube rather than trying to identify only periods that have changed. The Force button says "Ignore the fact that another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

4.4 Using the Report Cube in a Financial Report



4.5 Exporting Data from the Report Cube



The screenshot shows a window titled "Cube Viewer" with a sub-header "Create Financial Report". Below the sub-header is a text box: "The default period is the current period. You can optionally enter other restrictions. You can select an alternative Reporting Hierarchy." The main area contains several dropdown menus and one date range field:

- Report Cube
- Acctg Schema
- Account Date Range (with a date range field)
- Organisation
- Business Partner
- Product
- Project
- Activity
- Sales Region
- Campaign
- User List 1
- User List 2
- Posting Type

At the bottom right, there is a printer icon and a "Start" button with a green checkmark.

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".

5 Adaxa's Offices and Contacts

Information of a general nature about Adaxa and its services can be found at www.adaxa.com or obtained by sending an email to info@adaxa.com with a description of the information that you would like to receive. If you are an existing client and wish to initiate a request for software support please send an email to helpdesk@adaxa.com with as much detail as possible about the nature of your support request.

For all other information please contact the Adaxa office nearest to you.

5.1 Australia

Address: 10 Kylie Place, Melbourne, Victoria, 3192, Australia

Contacts: Office

- 1300 990 120 (Within Australia)
- +613 9510 4788 (Outside of Australia)

5.2 New Zealand

Address: 73 Boston Road, Mt Eden, Auckland, 1023, New Zealand

Contacts: Office

- 0800 232 922 (Within New Zealand)
- +649 9744 600 (Outside of New Zealand)

5.3 United States of America

Address: 4400 NE 77th Ave, Suite 275, Vancouver, WA 98662, USA

Contacts: Office

- +1 760 576 5115