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Creating Solver Reports Using Groups & Trees

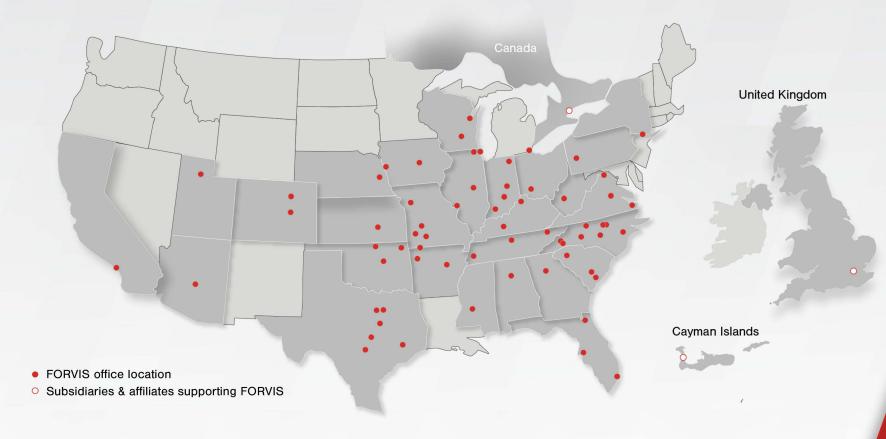
November 28, 2023

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Presenters



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Creating Solver Reports Using Groups & Trees

November 28, 2023

Objectives

- Explain how row filters are used in Solver
- Describe how to use account attributes to create reports
- Discuss how to use account trees to create reports



Filters & Groups



Groups

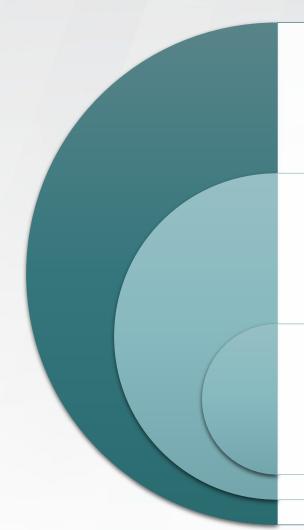
- Groups determine the amount of data to display
- The more information added, the more rows
- Dimension attributes can be added
- Use outlines to hide details



Groups – Customer Sales



Groups - Revenue



Revenue for all accounts – \$1M

Revenue by Account Category

- Commercial \$750K
- Government \$250K

Revenue by Account Category & State

- Commercial TX \$500K
- Commercial LA \$250K

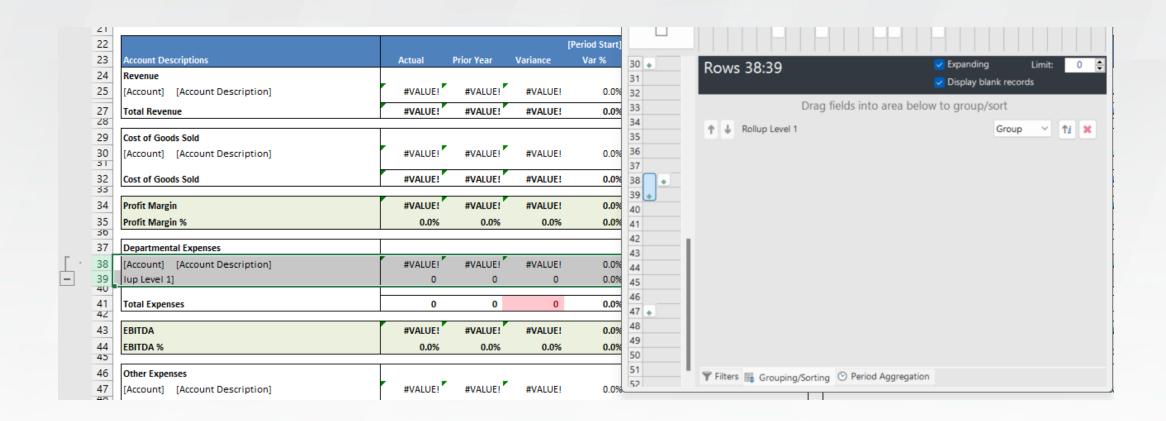


The Benefits of Groups

- Control how much data is displayed
- Control how data is displayed
- Groups can be copied for other sections
- Manage blank rows



Report Design With Groups





Report Output With Groups

1 2	_ A	В С Е	E	F	G	Н	1	J	K
	22	September, 2021							
	23	Account Descriptions	Actual	Prior Year	Variance	Var %	Budget	Variance	Variance
	24	Revenue							
	25	40010 Product Revenue	730,880	727,797	3,083	0.4%	725,000	5,880	0.8%
	26	40020 Services Revenue	540,925	422,346	118,578	28.1%	421,463	119,462	28.3%
	27	40030 Maintenance Revenue	59,664	81,610	(21,946)	-26.9%	0	59,664	0.0%
	28	40040 Other Revenue	31,677	39,605	(7,928)	-20.0%	0	31,677	0.0%
	29	40050 Comprehensive Income	0	0	0	0.0%	0	0	0.0%
	31 32	Total Revenue	1,363,145	1,271,357	91,788	7.2%	1,146,463	216,682	18.9%
	33	Cost of Goods Sold							
	34	50010 COGS - Product Sales	254,515	262,877	8,362	3.2%	246,880	(7,635)	-3.1%
	36	Cost of Goods Sold	254,515	262,877	8,362	3.2%	246,880	(7,635)	-3.1%
	3/								
	38	Profit Margin	1,108,630	1,008,480	100,150	9.9%	899,583	209,047	23.2%
	39 40	Profit Margin %	81.3%	79.3%	2.0%	2.5%	78.5%	2.9%	3.6%
	41	Departmental Expenses							
Γ.	42	60010 Full Time - Salary	201,202	251,748	50,546	20.1%	155,967	(45,234)	-29.0%
	43	60020 Full Time - Commission	16,959	17,349	389	2.2%	16,489	(470)	-2.9%
	44	60030 Full Time - Bonus	60,712	57,947	(2,765)	-4.8%	60,088	(624)	-1.0%
	45	61010 Part Time - Salary	23,796	23,693	(103)	-0.4%	24,438	642	2.6%
	46	61040 Part Time - Overtime	5,874	6,011	136	2.3%	5,738	(136)	-2.4%
	47	61050 Part Time - Bonus	8,754	9,236	482	5.2%	8,214	(540)	-6.6%
	48	61500 Payroll Taxes - FICA	41,115	40,348	(767)	-1.9%	40,595	(520)	-1.3%
	49	61510 Payroll Taxes - FUTA	5,841	5,978	137	2.3%	5,862	21	0.4%
	50	61520 Payroll Taxes - SUTA	6,022	5,963	(59)	-1.0%	5,920	(102)	-1.7%
	51	61530 Payroll Taxes - Workers Compensation	5,819	5,584	(235)	-4.2%	5,572	(247)	-4.4%
	52	61540 Benefits	1,175	1,209	34	2.8%	1,148	(27)	-2.3%





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Dimensions & Attributes



Dimensions

- Grouping, Summarizing, Sorting, Analyzing
- Minimize data storage
- Indexed for speed



Dimensions – Examples

Accounts

Departments

Customers

Vendors

Employees

Items

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Attributes

- Additional columns in Dimension
- Describe the dimension
- Examples: Customer State, Account Category, Item Type



Dimension

Code	Y Description Y Alias	Y Active Y Source	▼ sub Category ▼	category	▼ account Type	▼ direct Posting ▼
10100	Checking account		Cash	Assets	Posting	
10300	Petty Cash		Cash	Assets	Posting	
10400	Accounts Receivable		Accounts Receivable	Assets	Posting	
10500	Prepaid Rent		Prepaid Expenses	Assets	Posting	
105555	Saving account		Cash	Assets	Posting	
10600	Prepaid Insurance	✓	Prepaid Expenses	Assets	Posting	
10700	Inventory	✓	Inventory	Assets	Posting	✓
10800	Equipment	✓	Equipment	Assets	Posting	
10900	Accumulated Deprec	✓	Accumulated Deprec	Assets	Posting	
10910	WIP Job Sales	✓	Assets	Assets	Posting	
10920	Invoiced Job Sales	✓	Assets	Assets	Posting	
10940	Accrued Job Costs		Assets	Assets	Posting	
10950	WIP Job Costs	✓	Assets	Assets	Posting	
20100	Accounts Payable	✓	Current Liabilities	Liabilities	Posting	
20200	Purchase Discounts	▽	Current Liabilities	Liabilities	Posting	
20300	Purchase Returns &		Current Liabilities	Liabilities	Posting	
20400	Deferred Payanus	2	Current Liabilities	Lishilities	Docting	





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Trees



Trees

- Provide hierarchy to dimensions
- Used for rows & columns
- Report rows



Classical Tree Usage

TREE: GEOGRAPHY ►

EXPAND ALL

CONSOL - Consolidated Tree Node

GTAS - Asian Region

SAS - Corporate Asia

SEM - Corporate EMEA

GTWH - Western Hemisphere

SPC - Southern Products

SCA - Corporate Canada

SUS - Corporate US

SWC - Southwest Company

TREE: SAMPLE DEPT

EXPAND ALL

SUM - Summary

CST - Cost Centers

000 - Balance Sheet

100 - Administration

200 - Finance & Accounting

400 - Human Resources

PRO - Profit Centers

300 - Sales & Marketing

500 - Professional Services

760 - Internet Sales

TREE: REGIONS ►

EXPAND ALL

SUMMARY - Summary of Customers

US - US Customers

NONUS - Non-US Customers

ASIA - Asian Customers

EUROPE - European Customers

OTHER - Other Customers



Account Tree Usage

TREE: INCOME STATEMENT 🧪

EXPAND ALL

- ▼ TOP Top of Tree
- ▼ REV Revenue
- ▼ REV01 Product, Service, and Maintenance Revenue
 - 40010 Product Revenue
 - 40020 Services Revenue
 - 40030 Maintenance Revenue
 - 40040 Other Revenue
- ▶ REV02 Intercompany Revenue
- ▶ COGS Cost of Goods Sold
- ▶ EXP Expenses
- ▶ OIE Other Income/Expense

TREE: BALANCE SHEET 🥕

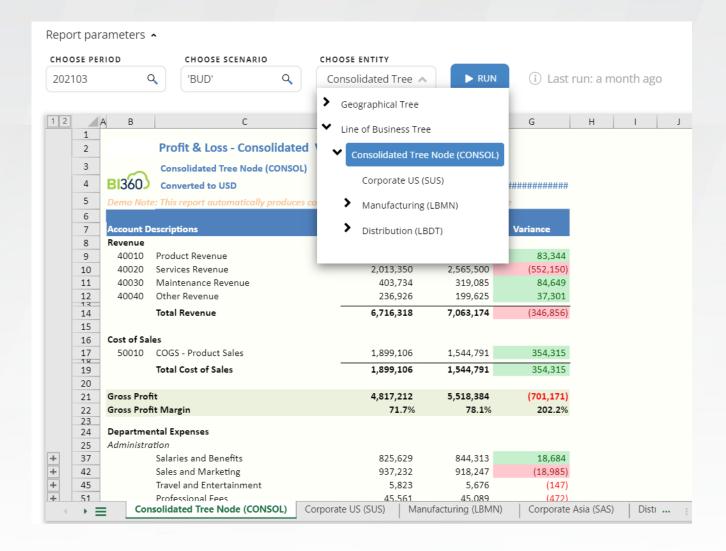
EXPAND ALL

- ▼ TOP Top of Tree
- ▼ ASSET Total Assets
- ▼ CA Current Assets
- ▼ CA01 Cash & Equivalents
 - 10100 CASH IN BANK
- ▶ CA02 Accounts Receivable
- ▶ CA03 Prepaid Expenses
- ▶ CA04 Other Current Assets
- ▶ PPE Plant, Property, and Equipment
- ▶ OA Other Assets
- LIAB Liabilities
- ▶ EQ Equity



Tree in a Report

- Summarizes data
- Creates separate tabs
- Based on dimensions
- Uses security





Tree in a Report

- Can control the amount of detail displayed
- Different levels can be selected during report design

Income Statemer	nt	
_		1/31/2021
Revenue	et Coming and Maintenance Devices	_
Produc	ct, Service, and Maintenance Revenue Product Revenue	
	Troduct Hereinae	843,763
	Services Revenue	450,808
	Maintenance Revenue	75,856
T . ID	Other Revenue	42,274
Total Revenue		1,412,700
Cost of Goods Sol	ld	
COGS -	- Product Sales	281,476
Total Cost of Goo	ds Sold	281,476
Gross Profit		1,131,224
Gross Profit %		80%
Expenses		
Salarie	s and Benefits	
	Full Time - Salary	238,744
	Full Time - Commission	17,574
	Full Time - Bonus	58,003
	Part Time - Salary	23,863
	Part Time - Overtime	5,574
	Part Time - Bonus	8,957





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What's Next

Solver CPM:

A Year in Review



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Questions?



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