Infor F9

Welcome to F9!

This document outlines how to get started and learn some of the core functionality of F9 Report Writer, Version 6. For more in-depth information on additional features, you may also want to refer to product help.



User Guide For F9 Professional Version 6

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1 F9 Overview

Infor F9 (F9) Report Writer is an easy-to-use reporting solution that links financial data to Microsoft Excel. Everything you know about your spreadsheet can be applied to the reports you create using F9. If you know Excel, you know F9!

F9 Report Writer offers a powerful feature package including:

- Reports and analysis
- Flexible cell-based formulas
- Consolidations
- Drill down
- Budgeting
- Multi-Currency
- Pivot and Table reports
- Drag and drop parameters
- Slicers and filtering
- And More...

Every financial report starts as a spreadsheet and uses the features of Microsoft Excel. F9 Version 6 is designed to leverage the latest features of Excel versions 2013-2016.

This User Guide is designed for new users to learn the core features of F9 in a short period of time as well as act as a quick reference to functionality when it's needed. Exercises are based on connecting to the installed F9 **Demo** company database.

2 Getting Started

To begin, we need to check F9 Report Writer is correctly attached in your Excel and that the data connection is working.

- 1. Open Excel
- 2. Check for F9 in the **Ribbon**:



Note:

- If you do not see F9, refer to the installed file: F9 Readme (for your product).PDF.
- > Check that your version of Excel is 2013 or 2016
- 3. To open a blank workbook, choose **Tab** + **New** + **Blank workbook**.

Info	New
New	
Open	Search for online templates
Save	Suggested searches: Business Personal Industry Financial Management
Save As	
History	A B C
Print	
Share	Take a
Export	
Publish	
Close	Blank workbook Welcome to Excel T

4. Ensure **Calculation** is set to Manual.

This allows the most control in Excel as minor changes to your spreadsheets will not cause a full recalculation.

• Select Tab File + Options + Formulas and click Manual as shown:

Excel Options	
General	\square Change options related to formula calculation. p
Formulas	
Proofing	Calculation options
Save	Workbook Calculation 🛈
Language	O <u>A</u> utomatic
Advanced	Automatic except for <u>d</u> ata tables Manual
Customize Ribbon	Becalculate workbook before saving

Notes:

- **F9** key calculates the workbook (or all open workbooks).
- > **Shift+F9** calculates the active visible worksheet.
- > F2+Enter calculates just the active cell.
- To save you time, all F9 reports should be saved with Manual Calculation so that the entire workbook does not recalculate every time you edit a cell.
- 5. The last step is for **data connection** to access the **Demo** database for this User Guide.
 - From the F9 Ribbon, select Setup
 - If you are on the **30-day trial** of F9, **click Ok** in the trial screen. The F9 Setup will window will next display:

F9 [Professional]	?	×
🖫 Company Access 🔛 Default Company 🖆 Options		
Company: demo Actual Type: ACTUAL ACT	Browse	
Company: demo Name: F9 Demonstration Company File Path: C:\F9Reporter\pro50_p\demo.btr demo.cmp, (2017/03/14 08:55:42) demo.btr, (2018/03/08 09:37:51), 2431 rows demo.trx, (2017/03/14 08:55:34), 660 rows demo.sad, (2017/04/10 13:39:34), 176 rows Current Period: 3 Periods Per Year: 12 Year: 2018 Account Code Structure: a-nnnnn-nnn Main Segment Number: 2		
<	>	
OK Cancel Apply	Help	5

• If you do not see Demo in the dropdown, select tab: Company Access

Company Access B Default Company Security Path: C:\F9REPORTER\PRO50_P\ Browse Current User: Use Shared Folder (Recommended) Login Company Name Mappings demo,C:\F9Reporter\pro50_p\demo.BTR F9 GL File: Browse Use Shared Folder (Recommended) File ID: Output: Delete Add	F0 (D()		2	
Company Access Image: Default Company Security Path: C:\F9REPORTER\PRO50_P\ Browse Current User: Use Shared Folder (Recommended) Login Company Name Mappings demo,C:\F9Reporter\pro50_p\demo.BTR F9 GL File: Browse Use Shared Folder (Recommended) File ID: Output: Delete Add	F9 [Professional]		ſ	×
Security Path: C:\F9REPORTER\PRO50_P\ Browse Current User: Use Shared Folder (Recommended) Login Company Name Mappings demo,C:\F9Reporter\pro50_p\demo.BTR F9 GL File: Browse Use Shared Folder (Recommended) File ID: Delete Add	🖁 Company Access 🛛 👫 D	Default Company 🏻 🚰 Options 🖢		
Path: C:\F9REPORTER\PRO50_P\ Browse Current User: Use Shared Folder (Recommended) Login Company Name Mappings demo,C:\F9Reporter\pro50_p\demo.BTR Browse F9 GL File: Browse Browse F9 GL File: Browse Browse F1 GL File: Browse Browse F2 GL File: Browse Browse F3 GL File: Browse Browse Current Use Shared Folder (Recommended) Browse File ID: Delete Add	- Security			
Current User: Use Shared Folder (Recommended) Company Name Mappings demo,C:\F9Reporter\pro50_p\demo.BTR f9 GL File: F9 GL File: Use Shared Folder (Recommended) File ID: Delete Add	Path: C:\F9RE	PORTER\PRO50 P\	Browse	
Current User: Use Shared Folder (Recommended) Login Company Name Mappings demo,C:\F9Reporter\pro50_p\demo.BTR F9 GL File: F9 GL File: Use Shared Folder (Recommended) File ID: Delete Add			browse	
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Import Import	Company Name Map	pings		
F9 GL File: Browse Browse Browse Browse Delete Add	demo C:\E9Reporter	r\pro50 p\demo BTR		
F9 GL File: Browse Use Shared Folder (Recommended) File ID: Delete Add	demo, en a streporter	(probo_p/acmoibrid		
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F9 GL File: Browse Use Shared Folder (Recommended) File ID: Delete Add				
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Image: Section of the section of t	FO GL File:		Browco	
Image: Use Shared Folder (Recommended) File ID: Delete	rs de me.		Browse	
File ID: Delete Add		Use Shared Felder (Recommended)		
File ID: Delete Add		 Ose shared Folder (Recommended) 		
File ID: Delete Add				
	File ID:	Delete	Add	
	1			_
OK Cancel Apply Help			1	

- If the top path is empty, click **Browse** to locate the folder where F9 is installed. This will have a file called: **Security.F9**
- To add "Demo" as the default company, click the **lower Browse** button and go to where F9 is installed to locate file: **Demo.btr**

F9 [Professional]	? ×	(
🔝 Company Access 🔛 Default Company 😁 Options		
Security Path: C:\F9REPORTER\PRO50_P\	Browse	
Current User: Use Shared Folder (Recommended)	Login	i
Company Name Mappings		
F9 GL File: C:\F9Reporter\pro50_p\demo.BTR	Browse	Ī
L Use Shared Folder (Recommended	l)	
File 0: Demo Delete	Add	Ŋ
OK Cancel Apply	Help	

- For File ID, enter: Demo
- Click Add + Apply
- Select tab: Default Company again. The settings for the data connection should now display.

Note:

> Check F9's product help:

¢	Updates
?	Help -
?	Content
F9	About

If you are not able to setup access, please <u>contact F9</u> Technical Support for help.

3 Navigation

This section includes tips on how to navigate through F9's product screens and menu items. Given that F9 runs within Excel as an Add-in, if you are familiar with Excel you will find using F9 to be similar in many ways.

3.1 Ribbon

File	Home	Insert Pag	e Layout	Formulas	Data	Review	View	Develope	er Help	F9 Report	er 🔎 Tell me wh	at you want to do
Calculate	<i>f_x</i> Wizard	Table PivotTable	fx Functions	Dropdowns	↓: Drill Down	Q Analyze	ress *	Scheduling	 ₩ Publish ▼ ₩ Utilities ▼ Migrate ▼ 	Setup	 Options Reset Task Panes 	C Updates ⑦ Help ▼ C License
		Reports		G.		Analysis	G.	Hub	Tools	5	Settings	Help

Each time you start Excel, the F9 Ribbon will be included in Excel's Ribbon. When you click on the tab name, F9's Ribbon becomes the current focus in Excel.

Notice that items are divided into functional groups for:

Reports	Analysis	Hub
Tools	Settings	Help

Items that have a **menu** display with a **down arrow** include:

Calculate	Functions	Dropdowns		
Zero Suppress	Publish	Migrate		
Help	License			

For detailed information on any of the Ribbon items, click on **Help + Content**:



3.2 Task Panes

From the **F9 Ribbon**, there are seven different **Task Panes** that display as an anchored window in order to build out new reports.

F9 GL	- ×
Source	⑦ \$
Company Controls	^
Companies:	
Demo	•
Types:	
Verr	•
2018	•
Currencies:	
Home	•
Account Segments	
Account Segments Periods:	
Account Segments Periods: January	•
Account Segments Periods: January Location: *	•
Account Segments Periods: January Location: * Account:	•
Account Segments Periods: January Location: * Account: *	•
Account Segments Periods: January Location: * Account: * Department:	•
Account Segments Periods: January Location: * Account: * Department: *	•

We will demonstrate navigation by going through this Task Pane in more detail.

Source:

F9 GL	- ×
Source	② 贷
Company Controls	^
Companies:	
Demo	•
_	

• Displays what data parameters to use in this function such as your Company and different accounts.

Help:

•	F9 GL	-	×
	Source	(?	<u>چ</u>
	Company Controls		^
	Companies:		
	Demo		-
	_		

• Open's the F9 help topic for this Task Pane.

Move:

F9 GL		×
Source	<u>M</u> ove <u>S</u> ize	<u>{</u>
Company Controls	<u>C</u> lose	^
- ·		

• All Excel Task Panes can be moved, floating, or re-anchored to a different location.

Close:

F9 GL	-	\otimes
Source	?	<u>{</u>
Company Controls		^
Companies: Demo		•

• Closes the current F9 Task Pane

Options:

F0 C1	- X
F9 GL	
Source	@(\$ <u>\$</u>)
Company Controls	~
Companies:	
Demo	•

displays:

F9 GL	Ŧ	×
Options		\times
Output		
Paste as: GL Formulas	•	
Create GL Function by: Period	-	
Destination:		
New Sheet		
C Selected Cell		

• Includes additional options for this F9 Task Pane.

Close Options:

F9 GL	- ×
Options	\otimes
Output	
Paste as: GL Formulas	•
Create GL Function by: Period	-
Destination:	
• New Sheet	
C Selected Cell	

• Returns back to the **Source** display in the Task Pane.

Get Balance:



• This button outputs an account balance into the Task Pane.

Insert GL:



• This button results in an F9 function and all its parameters to be output to your Excel worksheet.

4 Reports

4.1 Quick Trial Balance

Let's begin by outputting your Chart of Accounts with period amounts to Excel.

Table Report + Static Values

F9 provides a task pane to select criteria and build interactive Excel Tables which can have static values or dynamic F9 formulas for calculation and refresh.

- 1. Select an empty worksheet.
- 2. From the F9 Ribbon, click the Table button



The F9 task pane displays to the right of your active worksheet:

F9 Table	*	×
Source	?	ර
Company Controls		$^{\sim}$
Companies: Demo		•
Types: ACTUAL		•
Years: 2017		•
Currencies: Home		•
Account Segments		
Periods: January Use Whole Account		•
Location: *		•
Account: *		•
Department: *		•

- 3. Ensure the same defaults are set for your F9 as shown.
- 4. Click the **Options** button



F9 Table 🔹 🗙
Options ×
Include
Account Code
Separate Segments
Description
=DESC() Formula
Origin
Output
□ Skip Zeros
Paste as Static Values
Destination:
New Sheet
Formatting
Gridlines
Total
Table Style: None
© 0

- 5. Set options to the above.
- 6. Click Create Table in the lower task pane:



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E10 \checkmark : \times \checkmark $f_{\rm x}$ 280.37						
A	В	с		D	E	F
1						
2 Compani	es: Demo					
3 Years:	2017					
4 Types:	ACTUAL					
5 Currencie	es: Home					
6						
7 Accounts	: (*)(*)(*)					
8						
9	Account 💌 De	escription	-	Origin 🔹	January 💌	
10	A-10005-000 Pe	etty Cash		Balance Sheet	280.37	
11	A-10005-100 Pe	etty Cash		Balance Sheet	280.37	
12	B-10005-000 Pe	etty Cash		Balance Sheet	294.39	
13	B-10005-100 Pe	etty Cash		Balance Sheet	294.39	
14	C-10005-000 Pe	etty Cash		Balance Sheet	311.32	
15	C-10005-100 Pe	etty Cash		Balance Sheet	311.32	
16	A-10010-000 Ca	ash in Bank - Account #1		Balance Sheet	26,077.05	
17	A-10010-100 Ca	ash in Bank - Account #1		Balance Sheet	242,482.58	
18	B-10010-000 Ca	ash in Bank - Account #1		Balance Sheet	27,380.90	
19	B-10010-100 Ca	ash in Bank - Account #1		Balance Sheet	254,606.71	
20	C-10010-000 Ca	ash in Bank - Account #1		Balance Sheet	28,955.96	
21	C-10010-100 Ca	ash in Bank - Account #1		Balance Sheet	269,252.66	
22	A-10015-000 Ca	ash in Bank - Account #2		Balance Sheet	2,663.53	
23	A-10015-100 Ca	ash in Bank - Account #2		Balance Sheet	442.99	
24	B-10015-000 Ca	ash in Bank - Account #2		Balance Sheet	2,796.71	
25	B-10015-100 Ca	ash in Bank - Account #2		Balance Sheet	465.14	
26	C-10015-000 Ca	ash in Bank - Account #2		Balance Sheet	2,957.58	
27	C-10015-100 Ca	ash in Bank - Account #2		Balance Sheet	491.9	
28	A-10020-000 Ca	ash in Bank - Payroll Account		Balance Sheet	1,121.49	
29	A-10020-100 Ca	ash in Bank - Payroll Account		Balance Sheet	-7,107.17	

- 7. With the trial balance created, we can check the total to see that it sums to zero.
 - Click on any balance in column E
 - Click the keyboard End key + down arrow key
 - Excel should set the active cell to the last one in the table

E976	*	: × ✓ fx =SUBTOTAL(109,[J	anuary])	
	А	Account 💌 Description	👻 Origin	▼ January ▼ F
972		B-80500-000 Income Tax Expense	P/L	0
973		B-80500-100 Income Tax Expense	P/L	0
974		C-80500-000 Income Tax Expense	P/L	0
975		C-80500-100 Income Tax Expense	P/L	0
976		Total		0.00 -
977				

8. The current table contains some accounts with a zero period balance. These can be filtered out using Excel.

- Click keys: CTRL+Home to return to the top of the worksheet
- Click on the cell with dropdown: January (cell E10)
- Unselect the amount for zero to filter the table



Notice that Excel has simply hidden the rows in the table.

- 9. Rename this worksheet tab to: TrialBal_1
- 10. Save a copy of your report.

4.2 Dynamic Trial Balance

Table Report + GL Formulas

In the first exercise, the F9 Table output with fixed values with one Excel subtotal formula. Next, we will generate a more dynamic report with dropdown parameters, F9 formulas, and additional filtering.

1. First, we will ensure F9 is setup to create dropdowns. From the **F9 Ribbon**, select **Options**:



- 2. Click Create Report Dropdowns (if necessary) and OK
- 3. Select a new worksheet
- 4. If the F9 Table task pane is closed, click on **Table** from the **F9 Ribbon**.



We will use the same Source settings as in the previous exercise:

> All accounts; 2017, January

5. Click **Options**

<u>کې</u>

6. Change settings to the following:



First, by splitting the account segments into separate table columns, we can add Slicer filtering to the report. The other main difference is that instead of static balances, there will be F9 formulas for recalculation.

	А	В	С	D		E		F	G	н	1
1				Location	≋ 📡	Account	≋ 📡	Departme	ent	₩ ₹]
2	Companie	Demo									
З	Years:	2017		А		10005	<u>^</u>	000			
4	Types:	ACTUAL		В		10010		100			
5	Currencie	Home									
6				С		10015					
7	Accounts:	: (*)(*)(*)				10020					
8]					· · · · · · · · · · · · · · · · · · ·					
9		Periods:					January				
10		1									
11		Location	Account 💌	Department 💌	Description		 Amount J 	anuary 👻			
12		Α	10005	000	Petty Cash			280.37			
13		Α	10005	100	Petty Cash			280.37			
14		В	10005	000	Petty Cash			294.39			
15		В	10005	100	Petty Cash			294.39			
16		С	10005	000	Petty Cash			311.32			
17		С	10005	100	Petty Cash			311.32			
18		Α	10010	000	Cash in Bank -	Account #1		26,077.05			

7. Click **Create Table** to see the new report.

Straight away, you will see the new Table slicers created by the account segments.

8. Click on the Slicer values: "10005" for Account and "000" for Department

A	10	- : >	√ fx									
	А	В	С	D		E		F	:	G	н	
1	_			Location	¥= 🍢	Account	žΞ T	κ	Departm	ent	¥E 🍢]
2	Companie	e Demo						_				
3	Years:	2017		Α		10005			000			
4	Types:	ACTUAL		В		10010			100			
5	Currencie	Home				10015						
6				L		10015						
7	Accounts	: (*)(*)(*)				10020		~				
8												
9		Periods:					Janua	iry				
10												
11		Location	Account 🗐	Department 🗐	Description		 Amou 	unt Ja	anuary 💌			
12		Α	10005	000	Petty Cash				280.37			
14]	В	10005	000	Petty Cash				294.39			
16]	С	10005	000	Petty Cash				311.32			
978		Total							0.00			
979												

The table rows automatically filter by the Slicer selections. You can select more than one row in a given Slicer by holding the Ctrl or Shift key down at the same time.

- 9. One difference with this report is that F9 dropdowns have been created which allows you to change parameters and recalculate.
 - Select Cell B3 which has 2017

• Notice when selected, a dropdown control displays:



- Select year 2018
- From the **F9 Ribbon**, click **Calculate + Worksheet** to see new balances refresh
- 10. The second major difference in this report is that **F9 formulas** were added instead of static values and from the calculate just done, new balances were returned.
 - Select **cell F12** which contains a balance
 - Excel's formula bar shows the F9 formula for the cell
 - If you click on the formula bar, Excel displays the cell references in a color coded format:

SI	JM .	· : ×	🖌 f _x	=GL(BSPEC(\$E	8 <mark>12,\$C12,</mark> \$D12	2),F \$9, \$B\$2, <mark>\$B\$3</mark> ,	\$B\$4,\$B\$5)	
	А	В	С	D		E		F
1	_			Location	¥ 🔨	Account	差 📡	Department
2	Companies	:Demo						
3	Years:	2018	I	А		10005	<u>^</u>	000
4	Types:	ACTUAL	Ī	В		10010		100
5	Currencies:	Home	1					
6				С		10015		
7	Accounts:	(*)(*)(*)				10020	~	
8								
9		Periods:					Januar	y
10								
11		Location 💌	Account	Department 🔻	Description		 Amour 	nt January 💌
12		А	10005	000	Petty Cash		3\$3,\$B	\$4,\$B\$5)
13		A	10005	100	Petty Cash			312.50
14		В	10005	000	Petty Cash			328.13

The F9 formulas and dropdowns are what really make this report dynamic. As new period balances are updated to the F9 reporting database, the latest results are simply recalculated in Excel.

- 11. Over time, accounts will be added or deleted from the chart of accounts. In this scenario, F9 table rows need to be refreshed and this is easy to do.
 - Click on any cell within an F9 table report
 - Right+Click the mouse
 - From the popup menu that displays, select F9 Menu + Refresh Table



• The rows for the tab will next be refreshed.

Note:

- Table Refresh is only available from F9 table reports created with F9 Version 6 and higher. If you have a table from F9 Version 5, you will need to recreate the table.
- If for any reason an F9 V6 table is not able to refresh, you can lookup how it was originally created by selecting F9 Menu + Table Parameters. For example, this might occur if portions of the worksheet were deleted or changed or you are connected to a different database. This information may help for trouble-shooting or if you want to recreate a similar table report.

	System: C:\F9V5\PRO50 P	
Ň)	Topic: pro50p	
J	Controls:	
	Companies: Demo Types: ACTUAI	
	Years: 2017	
	Currencies: Home	
	Accounts: (*)(*)(*)	
	Periods: January	
		OK

With F9 table reports, you can change the formatting at any time. Add or remove slicers, subtotals, and formatting just like you would with any table by using all the functionality available from Excel.

12. Rename this worksheet tab to: TrialBal_2

13. Save your report.

4.3 Sales Table Report

F9 Table reports can consist of a subset of accounts as well as multiple period balance columns. The steps that follow will demonstrate this in just a few clicks.

- 1. Select a new worksheet
- 2. If the F9 Table task pane is closed, click on **Table** from the **F9 Ribbon**.
- 3. You can output multiple balance columns by listing them within **Periods**. Click on the **dropdown** to some of the many values available:

January		-
November		~
December		- 6
This Month		- 5
Last Month		
1,2,3,4,5,6,7,8,9,10,11,12	~	
Month 1	- 0	
Month 2		
Month 3		~

4. Enter the following for Periods:

Periods:	
1,2,3,4,5,6	•

- 5. For the table rows, this will represent just the sales accounts. In the demo database this falls within a range in the Account segment. When you click on the **Account dropdown**, F9 displays all the available segments.
- 6. Within **Account**, enter the following:

Account: 30100..30120

7. Click Options



8. Change settings to the following:

F9 Table 👻 🗙
Options ×
Include
 Account Code Separate Segments Prepend With a ' Description =DESC() Formula Origin
Output ✓ Skip Zeros Classic F9 Chart Paste as NGL Formulas Destination: ⓒ New Sheet ⓒ Selected Cell
Formatting Gridlines Slicers Total Table Style: White Light 1 C C C C C C C C C C C C C C C C C C

Note:

NGL Formulas are identical to the F9 GL formula but returns the sign negated.

F1	12	• : ×	$\sqrt{-f_x}$	=NGL(BSPE	C(\$B12,	\$C12,\$D:	12),F\$9,\$	\$B\$2,\$B\$3,\$B\$	\$4,\$B\$5)	>				
	А	В	С	D		E		F	G		н	I.	J	К
1				Location	ž	- T <u>x</u>	Accou	nt	注 📡	De	partment	₩ 📡		
2	Companie	Demo						•						
3	Years:	2017		А			30100	0		0	00			
4	Types:	ACTUAL		в			30110	D		1	00			
5	Currencie	Home		C			30120	n						
6	-						0012							
7	Accounts:	(*)(301003	0120)(*)											
8	-								_			-		
9	-	Periods:						1	2		3	4	5	6
10	-	1		Deserves	Derect			A			A	A	A	A
12		Location •	20100	Department *	Descri	Droduct		140 452 67	Amount	1 Z 🝸	142 015 26	Amount 4 *	Amount 5 *	146 047 24
12		A 	20100	100	Salos	Broduct	Line A	140,432.07	141,7	20.22	145,013.50	144,514.15	143,024.81	140,347.34
14		B	30100	000	Sales -	Product		144,055.47	1/18 8	1/ 63	150 166 13	151 529 90	140,400.01	154 294 71
15		B	30100	100	Sales -	Product	t Line A	151 304 44	152.6	78 55	154 065 14	155 464 31	156 876 21	158 300 91
16		c	30100	000	Sales -	Product	t Line A	155,958,64	157.3	75.02	158,804,26	160,246,48	161,701,79	163,170,33
17		c	30100	100	Sales -	Product	t Line A	160.008.05	161.4	61.20	162,927,55	164,407,21	165,900.32	167,406,98
18		A	30110	000	Sales -	Product	t Line B	94,443,21	95.3	00.92	96.166.42	97.039.77	97.921.06	98.810.36
19		В	30110	000	Sales -	Product	t Line B	99,165.37	100,0	65.97	100,974.74	, 101,891.76	102,817.11	103,750.88
20		С	30110	000	Sales -	Product	t Line B	104,869.74	105,8	22.14	106,783.19	107,752.96	108,731.55	109,719.02
21	1	A	30120	000	Sales -	Product	t Line C	41,451.03	41,8	27.48	42,207.34	42,590.66	42,977.46	43,367.77
22	1	A	30120	100	Sales -	Product	t Line C	28,825.67	29,0	87.46	29,351.62	29,618.19	29,887.17	30,158.60
23]	В	30120	000	Sales -	Product	t Line C	43,523.58	43,9	18.85	44,317.71	44,720.19	45,126.33	45,536.16
24]	В	30120	100	Sales -	Product	t Line C	30,266.95	30,54	41.83	30,819.20	31,099.10	31,381.53	31,666.53
25		С	30120	000	Sales -	Product	t Line C	46,027.22	46,44	45.23	46,867.03	47,292.67	47,722.17	48,155.57
26		С	30120	100	Sales -	Product	t Line C	32,008.02	32,2	98.72	32,592.04	32,888.04	33,186.71	33,488.11
27		Total						1,419,879.36	1,432,7	74.36	1,445,786.43	1,458,916.68	1,472,166.18	1,485,536.04
28														

9. Click Create Table to output the new table:

Notes:

- This table is dynamic with the use of NGL formulas, slicers, and report dropdowns for recalculation.
- We chose to have F9 skip zero balance rows instead of filtering in Excel as there are multiple period balances output.
- Account segments can be filtered in the Table to display a subset of rows; a specific department, for example
- The period balance columns can also be changed by clicking on their dropdowns in row 9:

Periods:				<	1	-
					1	^
Location	Account	 Departme 	ent 💌 Description	•	3	
Α	30100	000	Sales - Product Line	≥ A	4	
Α	30100	100	Sales - Product Line	A s	6	
В	30100	000	Sales - Product Line	≥ A	7	~

10. Rename the worksheet as SalesTable

See video: Sales Table

差 🍢

4.4 Pivot Analysis

There will be scenarios where you may want to analyze results using the more dynamic Excel Pivot table. Parameters can be dragged and dropped into rows, columns, and filters or set as slicers; pivot drilldown outputs the aggregated balances at any time.

F9's Pivot creates financial pivot reports easily and provides all your relevant parameters.



1. Click **PivotTable** from the **F9 Ribbon**



The **Source** settings display next.

- 2. Select multiple years: 2017 and 2018
- 3. Edit the Account field and enter a wildcard value: 3*
- 4. Change periods to be: 1,2,3,4,5,6

F9 Pivot	-	×
Source	?	<u>نې</u>
Company Controls		^
Companies: Demo Types:		
V ACTUAL		
V 2017 2018 Currencies: V Home		
Account Segments		
Periods: 1,2,3,4,5,6 Use Whole Account		•
Location: *		•
Account:		•
*		•

5. Click Options



For this report, we want the sales amounts to be driven by F9 NGL formulas as opposed to static values.

- 6. For Output, click Skip Zeros and select NGL formulas for Amounts
- **7.** Under Formatting, click **Slicers**. Your Options should now be the same as the following:

F9 Pivot	Ŧ	×
Options		\times
Include		
Account Code:		
Separate Segments		
Prepend with a '		
✓ Description		
Crigin		
Output		
NGL Formulas		
Destination:		
New Sheet		
C Selected Cell		
Formatting		
Slicers		
AutoFit Columns		
Refresh		

8. Click Create PivotTable in the lower task pane



The new report is created to a new worksheet.

	A	В	с	D	E	F	G	н	I.	J	К	L M	N	0
1	_			Years	ž	x								
2	_			2017										
3	-			2017										
4	-			2018										
5														
7	-													
8														
9	Department	(AII) 🔽												
10	Location	(AII) 🔽												
11														
12	Sum of Amount	Years 💌	Period 💌											
13								2017 Total	= 2018					2018 Total
		= 2017						2017 10(a)	-2010					
14	Account 💌	⊟ 2017 1	2	3	4	5	6	2017 10181	1	2	3	4 9	56	
14 15	Account 30100	2017 1 899,298.57	2 907,465.76	3 915,707.14	4 924,023.34	5 932,415.09	6 940,883.04	5,519,792.94	1,002,351.56	2 1,011,372.76	3 1,020,475.12	4 9	56 0.00	3,034,199.44
14 15 16	Account 30100 30110	2017 1 899,298.57 298,478.32	2 907,465.76 301,189.03	3 915,707.14 303,924.35	4 924,023.34 306,684.49	5 932,415.09 309,469.72	6 940,883.04 312,280.26	5,519,792.94 1,832,026.17	1,002,351.56 332,681.72	2 1,011,372.76 335,675.85	3 1,020,475.12 338,696.94	4 9 0.00 0.00 0.00 0.00	5 6 0.00 0.00	3,034,199.44 1,007,054.51
14 15 16 17	Account 30100 30110 30120	2017 1 899,298.57 298,478.32 222,102.47	2 907,465.76 301,189.03 224,119.57	3 915,707.14 303,924.35 226,154.94	4 924,023.34 306,684.49 228,208.85	5 932,415.09 309,469.72 230,281.37	6 940,883.04 312,280.26 232,372.74	5,519,792.94 1,832,026.17 1,363,239.94	1,002,351.56 332,681.72 247,553.78	2 1,011,372.76 335,675.85 249,781.74	3 1,020,475.12 338,696.94 252,029.80	4 9 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5 6 0.00 0.00 0.00	3,034,199.44 1,007,054.51 749,365.32
14 15 16 17 18	Account 30100 30110 30120 30150 	2017 1 899,298.57 298,478.32 222,102.47 -95,328.70	2 907,465.76 301,189.03 224,119.57 -96,194.46	3 915,707.14 303,924.35 226,154.94 -97,068.05	4 924,023.34 306,684.49 228,208.85 -97,949.62	5 932,415.09 309,469.72 230,281.37 -98,839.17	6 940,883.04 312,280.26 232,372.74 -99,736.77	5,519,792.94 1,832,026.17 1,363,239.94 -585,116.77	1,002,351.56 332,681.72 247,553.78 -106,252.65	2 1,011,372.76 335,675.85 249,781.74 -107,208.92	3 1,020,475.12 (338,696.94 (252,029.80 (-108,173.80 (4 9 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5 6 0.00 0.00 0.00 0.00	3,034,199.44 1,007,054.51 749,365.32 -321,635.37
14 15 16 17 18 19	Account 30100 30110 30120 30150 30160 	2017 1 899,298.57 298,478.32 222,102.47 -95,328.70 -9,952.51	2 907,465.76 301,189.03 224,119.57 -96,194.46 -10,042.90	3 915,707.14 303,924.35 226,154.94 -97,068.05 -10,134.11	4 924,023.34 306,684.49 228,208.85 -97,949.62 -10,226.13	5 932,415.09 309,469.72 230,281.37 -98,839.17 -10,319.02	6 940,883.04 312,280.26 232,372.74 -99,736.77 -10,412.73	5,519,792.94 1,832,026.17 1,363,239.94 -585,116.77 -61,087.40	1,002,351.56 332,681.72 247,553.78 -106,252.65 -11,093.00	2 1,011,372.76 335,675.85 249,781.74 -107,208.92 -11,192.87	3 1,020,475.12 (338,696.94 (252,029.80 (-108,173.80 (-11,293.56 (4 9 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5 6 0.00 0.00 0.00 0.00 0.00 0.00	3,034,199.44 1,007,054.51 749,365.32 -321,635.37 -33,579.43
14 15 16 17 18 19 20	Account 30100 30110 30120 30150 30160 30310 30310 30400 	 □ 2017 1 899,298.57 298,478.32 222,102.47 -95,328.70 -9,952.51 2,250.64 10.047 ≤ 0 	2 907,465.76 301,189.03 224,119.57 -96,194.46 -10,042.90 2,271.13	3 915,707.14 303,924.35 226,154.94 -97,068.05 -10,134.11 2,291.73	4 924,023.34 306,684.49 228,208.85 -97,949.62 -10,226.13 2,312.57 20,455 02	5 932,415.09 309,469.72 230,281.37 -98,839.17 -10,319.02 2,333.51	6 940,883.04 312,280.26 232,372.74 -99,736.77 -10,412.73 2,354.72	5,519,792.94 1,832,026.17 1,363,239.94 -585,116.77 -61,087.40 13,814.30	1,002,351.56 332,681.72 247,553.78 -106,252.65 -11,093.00 2,508.57	2 1,011,372.76 335,675.85 249,781.74 -107,208.92 -11,192.87 2,531.13	3 1,020,475.12 338,696.94 (252,029.80 -108,173.80 -11,293.56 2,553.91 22,553.91	4 9 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5 6 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	3,034,199.44 1,007,054.51 749,365.32 -321,635.37 -33,579.43 7,593.61

9. Close the F9 Pivot task pane as it is no longer needed

*	F9 Pivot	- ×
	Options	×

- 10. Within Excel's PivotTable Fields task pane:
 - Uncheck Years in the upper field list

PivotTable Fields	- ×
Choose fields to add to report:	∯. ▼
Search	P
Companies	
Years	
✓ Location	

• Drag Account from Rows up to Filters

Drag fields between a	reas below:
T Filters	III Columns
Department 🔻	Period 🔻
Location 🔻	
Account 🔻	
1	
Rows	Σ Values
\bigcirc	Sum of Amou 🔻

	А	В		С	D	E	F		G
1					Years	žΞ	x		
2									
3					2017				
4					2018				
5									
6									
7									
8	Department	(All)	-						
9	Location	(All)	-						
10	Account	(All)	-						
11									
12	Sum of Amount	Period	-						
13			1	2	3	3 4	Ļ	5	6
14	Total	2,826,77	9.79	2,852,330.06	2,878,111.38	3 1,373,549.48	1,386,023	63 1	,398,611.22
15									

The PivotTable has been created - so far so good!

11. Add a PivotChart

- Select any cell within the PivotTable that has a balance, such as B14
- Excel Ribbon Analyze: select PivotChart



• Set to the following if not already the default:

Insert Chart	
All Charts	
Recei	nt plates mn Clustered Column
🕚 Pie	8,549,000.00 8,099,000.00 3,549,000.00
Area	Scatter)
脑 Stock @ Surfa	k ace

- Click **OK** and **drag/resize** the new chart below the PivotTable
- Optional: Select the PivotChart and 🛨 to add a chart title



The Pivot report should look similar to the above.

- **12.** Click on the **Years Slicer** to see how the results change for a single year versus all.
- **13.** Drilldown steps
 - Click anywhere in the PivotTable
 - Right-Click + Show Details

147.79	6 5/	1/0 100 70 150 /000 /	55
	F9	F9 Menu	►
	Ē	<u>С</u> ору	
	8- 0-	<u>F</u> ormat Cells	
		Number Forma <u>t</u>	
/ Sales	lè	<u>R</u> efresh	
		<u>S</u> ort	F
	×	Remove "Sum of Amount"	
]	Su <u>m</u> marize Values By	Þ
		Show V <u>a</u> lues As	F
	*3	Show D <u>e</u> tails	

• Alternatively, **double-click** on the Pivot cell having the balance

	А	В	С	D	E	F	G	Н	1	J
1	Companies 💌	Types 🔽	Years 💌	Currencies 💌	Location 💌	Account 💌	Department 💌	Description 💌	Period 💌	Amount 💌
2	Demo	ACTUAL	2017	Home	А	30400	100	Freight Charge	3	2503.15
3	Demo	ACTUAL	2017	Home	Α	30310	100	Finance Charge	3	284.35
4	Demo	ACTUAL	2017	Home	А	30160	100	Sales Returns a	3	-3083.26
5	Demo	ACTUAL	2017	Home	А	30150	100	Sales Discount	3	-27988.02
6	Demo	ACTUAL	2017	Home	А	30120	100	Sales - Product	3	29351.62
7	Demo	ACTUAL	2017	Home	Α	30100	100	Sales - Product	3	146728.7
8										

Excel places the drill results into a new worksheet tab.

14. Refresh Pivot

Updating the balances in a F9 Pivot report is a bit different given there are no F9 formulas in the PivotTable.

- Click anywhere in the PivotTable
- Right-Click + F9 Menu
- Select Refresh Pivot

Department Location		(AII) ▼ (ΔII) ▼	
Account	Cali	ibri - 11 - A A \$	- % , 🛱
	в	I = 🔷 - 🗛 - 🛄 -	€.0 .00 ∛
Sum of Amount	_	Perioa 🝸	
Tatal	F9	F9 Menu 🕨	Control List
Total	Ē	Copy	Drill Down
	8- 0-	Format Cells	Refresh Table
Department • Loo	là	<u>R</u> efresh	Table Parameters
Sum of Amount		PivotTable <u>O</u> ptions	Refresh Pivot

The Excel status bar will display with details on the refresh until completed.

Note:

- > F9 NGL formulas that are linked to the PivotTable totals
- The formulas can be found in a separate worksheet created by F9
- We recommend hiding this data worksheet to ensure PivotTable refresh results stay in tact
- For any PivotTables created in F9 Version 5, you will need to recreate the Pivot to have actual data rows refresh.

See demo video: Pivot

4.5 Wizard Report

F9 Wizard is available to step you through defining different report dimensions by rows and columns and then outputting the results. F9 formulas can reside anywhere in the workbook and Wizard will help you visualize setting up new reports by multiple fiscal years or departments for example. Like the other F9 toolsets, a control area is created with dropdown parameters. Select and change any dropdown to calculate new results easily.

Any new report created by Wizard can be easily expanded and typically this is by adding new rows, subtotals, and formatting. All the F9 formulas are output with the correct absolute and relative cell referencing also.

1. Step 1 - Company

The very first thing to decide is what company (database) to access for building a new report. This also drives the display of parameter values such as years and account segments in steps that follow.

- From the F9 Ribbon, select Wizard
- You may want to resize the Task Pane display by dragging its border to the left
- Select a company to start
- For Destination: New Sheet

F9 Report Wizard		-	×
Step 1 of 5			?
Select the Company (Chart of Accounts) to use to	create the report.		
Demo	Report Destination New Sheet Selected Cell		
Click Next >			

2. Step 2 – Rows

GL reports often have rows defined by accounts and descriptions. In F9's Wizard, this will be your main account segment typically. This does not mean you cannot have other types of rows; this can be by a different parameter such as by Location, Year, or Budget. In Step 2, you pick which parameter and values represent rows.

• In the **upper left dropdown**, click on the dropdown.

F9 Report Wizard	~ ×
Step 2 of 5	?
Select the report rows. Typically this will be the determine the row headers for F9's formulas.	e main account segment. This selection will
Account Companies Periods	Row Headers
Types Years Currencies Location	
Account Department	Ę

Notice the different items that can represent rows. Try clicking on different ones to see the values displayed.

- Select **Account** which is the main account segment for this database.
- Click: **10005** and **Add** to move across to the Row Headers.

-9 Report Wizard	▼
Step 2 of 5	
Select the report rows. Typically this will be the main determine the row headers for F9's formulas.	account segment. This selection will
Account 🗸	
-Vertical Axis Values	Row Headers
Total	$\uparrow \overline{\downarrow} \mathscr{Q}$
Sub Total	
Variance	
Percent Variance	
Blank Line	
*	- Devellender
10005 / Petty Cash	o Kow Headers
10010 / Cash in Bank	

• Next, select all Cash in Bank accounts 10010..10020 and Add
Vertical Axis Values		Row Headers	
Total Sub Total Description Variance Percent Variance		10005 10010 10015	<u>↑</u> ↓ <u>×</u>
Blank Line	E) R	10020	
10005 / Petty Cash 10010 / Cash in Bank 10015 / Cash in Bank 10020 / Cash in Bank			
10030 / Marketable Securities 10040 / Accounts Receivable			

• In Row Headers, select 10010 to 10020 and then Edit



• Click Create Range



• Select the new range and then Edit

• Let's add a description for this group of accounts. Click **Override Description** and type: **Cash**

Edit Specifier		×
1001010020		
Description Override:		
Cash		
	ОК	Cancel
Row Headers		
10005 '1001010020	Cash	

- From the list in the upper left corner, select: Sub Total + Add
- Select Blank Line + Add

Row Headers		<u>↑</u> <u>↓</u> <u>×</u>
10005 '1001010020 Sub Total Blank Line	Cash	

- From the account list, highlight 10040 to 10080 + Add
- Select Sub Total + Add

10005		
'1001010020	Cash	
Sub Total		
Blank Line		
10040		
10045		
10050		
10060		
10070		
10080		
Sub Total		
lotes:		

> You can move row headers using buttons: $\stackrel{\frown}{=} \overline{\downarrow}$

> To delete a header row, select it and then: $\stackrel{\times}{=}$



3. Step 3 - Columns

We could continue to add more rows and sub totals within Step 2 but for the purposes of this guide, we will go to the next step. For this report, the columns will be defined by Periods. Note that just like in Step 2, you can build columns by a different parameter such as Department or Year.

• In the upper left dropdown, click on Periods

	F9 Report Wizard
	Step 3 of 5
	Select the report columns. This will determine if you create a report for multiple periods, departments, companies, years, budgets, etc.
- 11	\frown

• To include descriptions for the accounts, select: Description + Add

Horizontal Axis Values	Column Headers	
Total		î 🗍 🖉 🗙
Sub Total		
Description	Description	
Variance		
Percent Variance		
Blank Line		

• Select Periods: January to June + Add

Total Sub Total Description Variance Percent Variance Blank Line	F	Description January February March April May	
January A February March April May June	Ŀ	June	
July			

You will notice each time Next > is clicked, the Wizard outputs the criteria into Excel:

	Α	В	С	D	E	F	G	н	1	J	
1	Company	Demo									
2											
3											
4											
5											
6											
7											
8											
9											
10				Descripti	o January	February	March	April	May	June	-
11			10005								
12			1001010	020							
13			Sub Total								
14											
15			10040								
16			10045								
17			10050								
18			10060								
19			10070								
20			10080								
21			Sub Total								

4. Step 4 – Control Area

The control area represents all reaming parameters for F9's formulas which are Dropdown controls to be used for later recalculation.

• No changes are required for defaults here

*	F9 Report Wizard		+ ×
	Step 4 of 5		?
	Set the Remaining Axes.		
	Companies	Demo	•
	Types	ACTUAL	•
	Years	2018	•
	Currencies	Home	-
	Location	*	-
	Department	*	•



5. Step 5 - Formatting

Change the settings to be the following: •

		4	F9	Report	t Wizard						Ψ.	×
			Ste	ep 5 of	5							?
			For we	mat Repor	t. The final step allo presentation options	ws you to c	choose a co	lor and des	ign format	for your re	eport as	5
				<u>ort Title</u> ance Sheet Reverse sigi Hide Zero R Rows Outlir Gridlines	n for CR and DR balar Rows ne	ices						
			Rep	ort Style: 1	White Light 1	0						
1 2		A		с	D	E	F	G	н	I	J	
	1 2 3 4 5 6 7 8 9	Companies Periods Types Years Currencies Location Account Department	Demo Horizontal ACTUAL 2018 Home * Vertical *		Balance Sheet							
_	10				Description	January	February	March	April	Мау	June	
	11			10005	Petty Cash	\$1,975.26	\$1,993.02	\$2,010.96	\$2,010.96	\$2,010.96	\$2,01	0.96
Ļ.	12			Sub Total	Casil	\$935,874.94 \$937,850.20	\$946,290.83	\$954,807.44	\$954,807.44	\$954,807.44	\$952,79 \$954,80	17.44
1.1	14											
	15			10040	Accounts Receivable	\$3,537,546.33	\$3,569,384.27	\$3,601,508.71	\$3,601,508.71	\$3,601,508.71	\$3,601,50	8.71
· ·	16			10045	Allowance for Bad Debts	-\$146,168.50	-\$147,484.02	-\$148,811.35	-\$148,811.35	-\$148,811.35	-\$148,81	1.35
1	17			10050	Notes Receivable	\$61,904.34	\$62,461.48	\$63,023.62	\$63,023.62	\$63,023.62	\$63,02	3.62
	18			10050	Other Receivable	\$44,092.73	\$44,489.55	\$44,889.94	\$44,889.94	\$44,889.94	\$44,88	9.94 0.00
	20			10080	Accounts Receivables	\$4.641.84	\$4,683.62	\$4.725.78	\$4.725.78	\$4,725.78	\$4.72	5.78
-	21			Sub Total		\$3,502,016.74	\$3,533,534.90	\$3,565,336.70	\$3,565,336.70	\$3,565,336.70	\$3,565,33	6.70

The resulting report created by Wizard contains formulas for balances as well as account descriptions.

Note:

- Now that the focus is back in Excel, you can change any of the formatting, add additional rows and subtotals to build out the report as needed.
- From Excel's Home tab, try working with different fonts, borders, color fill to enhance the style. For example:

		January	February	March	April	May	June
10005	Petty Cash	\$1,975.26	\$1,993.02	\$2,010.96	\$2,010.96	\$2,010.96	\$2,010.96
1001010020	Cash	\$935,874.94	\$944,297.81	\$952,796.48	\$952,796.48	\$952,796.48	\$952,796.48
	Total Cash	\$937,850.20	\$946,290.83	\$954,807.44	\$954,807.44	\$954,807.44	\$954,807.44
		4					4
10040	Accounts Receivable	\$3,537,546.33	\$3,569,384.27	\$3,601,508.71	\$3,601,508.71	\$3,601,508.71	\$3,601,508.71
10045	Allowance for Bad Debts	-\$146,168.50	-\$147,484.02	-\$148,811.35	-\$148,811.35	-\$148,811.35	-\$148,811.35
10050	Notes Receivable	\$61,904.34	\$62,461.48	\$63,023.62	\$63,023.62	\$63,023.62	\$63,023.62
10060	Interest Receivable	\$44,092.73	\$44,489.55	\$44,889.94	\$44,889.94	\$44,889.94	\$44,889.94
10070	Other Receivables	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10080	Accounts Receivables	\$4,641.84	\$4,683.62	\$4,725.78	\$4,725.78	\$4,725.78	\$4,725.78
	Net Receivables	\$3,502,016.74	\$3,533,534.90	\$3,565,336.70	\$3,565,336.70	\$3,565,336.70	\$3,565,336.70

Balance Sheet

6. Recalculate

As a final exercise to the report creation with Wizard, we will step through some easy ways to refresh the results.

- Select the first balance in the report
- Click on the formula bar in Excel to see its references color coded

		~ /	£ 01/2025				
	· · ·	XV	Jx =GL(BSPE	C(\$B\$6,\$C11,\$B\$8),E\$10,\$I	8\$1,\$8\$4,\$8\$3,\$	BSS	
	Α	В	С	D	E	F	G
1	Companies	Demo	I	^			
2	Periods	Horizontal					
3	Types	ACTUAL	I				
4	Years	2018	I				
5	Currencies	Home	I				
6	Location	*	I				
7	Account	Vertical					
8	Department	*	I				
9			-		E	Balanc	e Shee
10	-				lanuary	February	March
11			10005	Potty Cash		¢1 002 02	\$2,010,95
12			10003	Cash	C025 974 94	\$1,333.02 \$944 297 91	\$2,010.30
12	-		1001010020	Total Cash	\$937,850.20	\$946,290.83	\$954,807.44
	1						

• Select cell B4 and change the Year to 2017

	Years	2018	•
1	Currencies	2018	
-		2017	
		-	

• F9 Ribbon + Calculate + Worksheet



• Select Location, cell B6

• Right-Click + F9 Menu + Control List

3	Types	ACTIN		_	
4	Years	201 59	F9 Menu		Control List
5	Currencies	но 🔏	Cu <u>t</u>		Drill Down
6	Location	*	<u>С</u> ору		Refresh Table

• Select A and C to output a list + OK

	F9	Control Li	ist						
		Select All	I 🔽 E	xclude De	scriptions				
		A /Van B /Los C /Atla	icouver Angeles inta						
			OF	(Cancel				
	Lo	cation	A,C	-					
	• F9	Ribbor	- + Calculate	u + Wor	kahaat				
					KSneet				
	• Sel	ect Dep	partment, ce	II B8	KSHEEL				
	SelCh	lect Dep ange to	oartment, ce '000 and rec	II B8	e e				
	SelChRe	lect Dep ange to name th	oartment, ce '000 and rec his tab to: Wiz	II B8 alculate	,				
1 2 3 4 5 6 7	Sel Sel Chr Chr Chr Companies Demo Periods Horizonta Types ACTUAL Years 2017 Currencies Home Location A.cc. Account Vertical	lect Dep ange to name th	oartment, ce '000 and rec his tab to: Wiz	II B8 alculate zard	F	G	н	1	J
1 1 2 3 4 5 6 7 8 9	Sel Chr Chr Chr Re Companies Demo Periods Horizonta Types ACTUAL Years 2017 Currencies Home Location A,C Account Vertical Department 000 / Dep	ect Dep ange to name th c	oartment, ce '000 and rec his tab to: Wiz	II B8 alculate zard E	F Balance	ہ e Shee	н	1	J
1 1 2 3 4 5 6 7 7 8 9 9 10	Sel Chr Companies Demo Periods Horizonta Types ACTUAL Vears Currencies Home Location A.C Account Vertical Department 000 / Dep	ect Dep ange to name th c	oartment, ce '000 and rec his tab to: Wiz	II B8 alculate zard E	F F F Balance	G e Shee March	н April	Мау	June
1 2 3 4 5 6 7 7 8 9 9 10 11	Sel Chr Chr Chr Re Companies Demo Periods Horizonta Types ACTUAL Years 2017 Currencies Home Location A.c. Account Vertical Department 100 / Dep	lect Dep ange to name th c	partment, ce '000 and rec his tab to: Wiz	II B8 calculate zard E January S591.69	F F Balance February \$597.07	۶ e Shee <u>March</u> ۶602.50	н 2t \$607.96 564 75.50	1 May \$613.49	J June \$619.06
1 2 3 4 5 5 6 6 7 8 9 9 9 10 111 12 13	Sel Chr Chr Chr Re Companies Demo Periods Horizonta Types ACTUAL Years 2017 Currencies Home Location A.C Account Vertica Department 000 / Dep	lect Dep ange to name th c	Petty Cash Cash Total Cash	II B8 calculate zard ε January \$591.69 \$63,020.91 \$63,612.60	F F Salance February \$97.07 \$63,593.25 \$64,190.32	G e Shee March \$602.50 \$64,170.78 \$64,773.28	H April \$607.96 \$64,753.58 \$65,361.54	May \$613.49 \$65,341.63 \$65,955.12	J June \$619.06 \$65,935.04 \$66,554.10
1 2 3 4 5 6 6 7 8 9 9 9 10 111 12 13	Sel Companies Demo Periods Horizonta Types ACTUAL Years 2017 Currencies Home Location A.C Account Vertical Department 000 / Dep	lect Dep ange to name th c	Petty Cash Cash Total Cash	II B8 calculate zard E January \$591.69 \$63,020.91 \$63,612.60	F F Balance February \$597.07 \$63,593.25 \$64,190.32	G e Shee <u>March</u> \$602.50 \$64,170.78 \$64,773.28	H April \$607.96 \$64,753.58 \$65,361.54	۱ May \$613.49 \$65,341.63 \$65,955.12	J June \$619.06 \$65,935.04 \$66,554.10
1 1 2 3 4 5 6 6 7 7 8 9 9 10 11 11 12 13 14 15	Sel Companies Demo Periods Horizonta Types ACTUAL Years 2017 Currencies Home Location A.C. Department 200 / Dep	lect Dep ange to name th c	Petty Cash Cash Total Cash	II B8 calculate zard E January \$591.69 \$63,020.91 \$63,612.60 \$1,414,361.78	F F Salance February \$597.07 \$63,593.25 \$64,190.32 \$1,427,206.64	G e Shee <u>March</u> \$602.50 \$64,170.78 \$64,773.28	H \$607.96 \$64,753.58 \$65,361.54 \$1,453,247.38 :	I \$613.49 \$65,341.63 \$65,955.12 \$1,466,445.40 \$	June \$619.06 \$65,935.04 \$66,554.10
1 2 3 4 4 5 6 7 7 8 9 9 9 10 11 11 12 13 13 14 15 16	Sel Companies Demo Periods Horizonta Types ACTUAL Vears 2017 Currencies Home Location A.C. Department 200 / Dep	lect Dep ange to name th c	Petty Cash Cash Total Cash Accounts Receivable Allowance for Bad Debts	II B8 calculate zard E January \$591.69 \$63,020.91 \$63,612.60 \$1,414,361.78 -\$63,903.17	F F Salance February \$597.07 \$63,593.25 \$64,190.32 \$1,427,206.64 \$-\$64,483.53	G e Shee <u>March</u> \$602.50 \$64,170.78 \$64,773.28 \$1,440,168.15 -\$65,069.14	H April \$607.96 \$64,753.58 \$65,361.54 \$1,453,247.38 \$-\$65,660.09	May \$613.49 \$65,341.63 \$65,955.12 \$1,466,445.40 \$-\$66,256.39	J June \$619.06 \$65,935.04 \$66,554.10 \$1,479,763.27 -\$66,858.13
1 2 3 4 4 5 6 7 8 9 9 10 11 12 13 14 15 16 17 18 14 15 16 17 18 19 10 11 12 13 14 15 16 16 16 16 16 16 16 16 16 16	Sel Companies Demo Periods Horizonta Types ACTUAL Vears 2017 Currencies Home Location A.C. Department 200 / Dep	lect Dep ange to name th c	Petty Cash Cash Total Cash Accounts Receivable Allowance for Bad Debts Notes Receivable	II B8 calculate zard E January \$591.69 \$63,020.91 \$63,612.60 \$1,414,361.78 -\$63,903.17 \$0.00 \$15,919,22	F F Salance February \$597.07 \$63,593.25 \$64,190.32 \$1,427,206.64 \$.000 \$16,053.71	G e Shee <u>March</u> \$64,773.28 \$1,440,168.15 -\$65,069.14 \$0.00 \$16,199.49	H April \$607.96 \$64,753.58 \$65,361.54 \$1,453,247.38 \$65,660.09 \$0.00 \$0.00 \$16 346 61	May \$613.49 \$65,341.63 \$65,955.12 \$1,466,445.40 \$-\$66,256.39 \$0.00 \$0.00 \$16,495.09	J \$619.06 \$65,935.04 \$66,554.10 \$1,479,763.27 -\$66,858.13 \$0.00 \$16,644.87
1 1 2 3 4 4 5 6 7 8 8 9 9 10 11 12 13 13 14 15 16 17 18 19 11 12 13 14 15 16 10 11 11 12 13 14 15 16 16 10 10 11 11 15 16 16 16 16 16 16 16 16 16 16	Sel Companies Demo Periods Horizonta Types ACTUAL Vears 2017 Currencies Home Location A.C. Department 200 / Dep	lect Dep ange to name th c	Petty Cash Cash Total Cash Accounts Receivable Allowance for Bad Debts Notes Receivable Interest Receivable Other Receivables	II B8 calculate zard E January \$591.69 \$63,020.91 \$63,612.60 \$1,414,361.78 -\$63,903.17 \$0.00 \$15,909.23 \$0.00	F F Salanco February \$597.07 \$63,593.25 \$64,190.32 \$1,427,206.64 \$-\$64,483.53 \$.000 \$16,053.71 \$0.00	G e Shee <u>March</u> \$64,170.78 \$64,773.28 \$1,440,168.15 -\$65,069.14 \$0.00 \$16,199.49 \$0.00	H \$607.96 \$64,753.58 \$65,361.54 \$1,453,247.38 \$65,660.09 \$0.00 \$16,346.61 \$0.00	May \$613.49 \$65,341.63 \$65,955.12 \$1,466,445.40 \$-\$66,256.39 \$0.00 \$16,495.08 \$0.00	June \$619.06 \$65,935.04 \$66,554.10 \$1,479,763.27 -\$66,858.13 \$0.00 \$16,644.87 \$0.00
1 2 3 4 4 5 6 7 8 8 9 9 10 11 12 13 14 15 16 17 7 18 19 20	Sel Companies Demo Periods Horizonta Types ACTUAL Years 2017 Currencies Home Location A.(c) Account Vertical Department 000 / Dep	lect Dep ange to name th c	Petty Cash Cash Total Cash Accounts Receivable Allowance for Bad Debts Notes Receivable Interest Receivable Other Receivables Accounts Receivables	II B8 calculate zard E January \$591.69 \$63,020.91 \$63,612.60 \$1,414,361.78 -\$63,903.17 \$0.00 \$15,909.23 \$0.00 \$1,183.39	F F Salance February \$597.07 \$63,593.25 \$64,190.32 \$1,427,206.64 \$0.00 \$16,053.71 \$0.00 \$16,053.71 \$0.00 \$1,194.15	G E Shee <u>March</u> \$602.50 \$64,170.78 \$64,773.28 \$1,440,168.15 -\$65,069.14 \$0.00 \$16,199.49 \$0.00 \$1,204.98	H \$607.96 \$64,753.58 \$65,361.54 \$1,453,247.38 \$-\$65,660.09 \$0.00 \$16,346.61 \$0.00 \$16,346.61 \$0.00 \$16,346.61	May \$613.49 \$65,341.63 \$65,955.12 \$1,466,445.40 \$-\$66,256.39 \$0.00 \$16,495.08 \$0.00 \$16,495.08	June \$619.06 \$65,935.04 \$66,554.10 \$1,479,763.27 -\$66,858.13 \$0.00 \$16,644.87 \$0.00 \$16,238.11

As you can see a report created by Wizard is very flexible to calculate across a variety of parameters. You can also click on the period headings (January to

June) and change to other values. Parameter values can be selected from its dropdown control and you can also enter in a new value such as a list of Locations.

See demo video: Wizard

Functions

4.6 Fundamental GL

We have seen how F9 formulas return dynamic results when recalculated and this leads into learning more about how this works.

The GL function is the fundamental F9 formula as it links any cell in your spreadsheet to any balance in your GL. This happens with the use of parameters that tell F9 what GL total should be returned.

Syntax:

=GL(Account, Period, Company, Year, Type, Currency)

Parameter	Description	Examples
Account	GL account(s)	100*-000-* 1*-000110-9000
Period	Reporting period(s)	Month 1 March Year to Date 5
Company	Company database	Demo
Year	Fiscal year	2018
Туре	Balance type	Actual Budget
Currency	Currency code	Home

By the end of this User Guide, we hope you will be very familiar with this formula and how best to utilize its functionality.

If you already know how to write other Excel formulas, the same rules apply to F9's.

F9 provides a number of tools to help build GL formulas with the proper absolute and relative cell referencing to then copy and autofill additional rows and columns as needed. F9 toolsets for creating GL formulas:

- Table
- Wizard
- Pivot
- Insert Function GL

In the previous sections: <u>Dynamic Trial Balance</u> and <u>Sales Report</u>, F9 created both GL and NGL (sign negated) formulas within the table reports.

F12	Ŧ	: ×	√ f _× ζ	=GL(BSPEC(\$B	12,\$C12,\$D12),F	\$9,\$B\$2,\$B\$3,\$B\$4,\$	B\$5)
	А	В	С	D		E	F (
10							
11	Lo	cation 💌 A	ccount 💌	Department 💌	Description	-	Amount January 💌
12	А	1	.0005	000	Petty Cash		312.50
13	А	1	.0005	100	Petty Cash		312.50
14	В	1	0005	000	Petty Cash		328.13

Of course you can always start typing any new formula manually in Excel but let's start learning more about the GL function by following the exercise in the next section.

4.7 Insert GL

So far in this guide, we have used F9's reporting tools to generate formatted results. It is possible to create F9 formulas anywhere in the worksheet and you can also place the dropdown controls anywhere you like.

1. F9 Ribbon

- Select a new blank worksheet
- From the **F9 Ribbon**, click **Functions**
- Select GL



A task pane will next open in Excel.

2. Insert GL

• From the F9 task pane, select the following:

► F9 GL	~ ×
Source	\$ \$ \$
Company Controls	^
Companies: Demo	•
Types: ACTUAL	-
2018	•
Currencies: Home	•
Account Segments	
Periods: January	•
	•
10005 Department:	•
*	•

Note:

Click

•

> All of the dropdowns represent the parameters that will be included in the GL formula.

Get Balance

The account balance for January, 2018 displays beside the button.



• Next, click to have F9 create a new GL formula template on the worksheet.

E1	1 *	: ×	√ fs	=GL(BS	PEC(\$B\$1	\$A11,\$B\$	2),E\$9,\$B\$4	4,\$B\$5,\$B\$	6,\$B\$7)
	А	В	С	D	E	F	G	н	I.
1	Location:	*							
2	Department:	*							
3									
4	Companies:	Demo							
5	Years:	2018							
6	Types:	ACTUAL							
7	Currencies:	Home							
8									
9					January				
10									
11	10005			Petty Cash	1,975.26				

• Select the cell with the GL formula and then click on the **Excel formula bar**; parameters display as **color-coded**:

SU	- MI	: ×	✓ fs	=GL(BS	PEC(\$B\$1	. <mark>,\$A11,</mark> \$B\$3	2),E\$9,\$B\$ 4	1,\$B\$5,\$B\$	6,\$B\$7)	
	Α	В	с	D	E	F	G	н	I.	
1	Location:	*								
2	Department:	*								
3										
4	Companies:	Demo								
5	Years:	2018								
6	Types:	ACTUAL								
7	Currencies:	Home								
8										
9					January					
10										
11	10005			Petty Cash	i,\$B\$7)					
12										

• From the Excel Ribbon, select Formulas + Insert Function

Function Arg	juments			?	\times
GL					
Account	BSPEC(\$B\$1,\$A11,\$B\$2)	1	⁻ (*)(10005)(*) ⁻		^
Period	E\$9	=	"January"		
Company	\$B\$4	=	"Demo"		
Year	\$B\$5	=	"2018"		
Туре	\$B\$6	=	"ACTUAL"		~
		=	1975.26		
No help availa	able.				
	Account				
Formula resul	t = 1,975.26				
Help on this f	unction		ОК	Ca	ncel

Notes:

- Excel provides its own window to help build formulas. Because F9 is an Excel Add-In, our functions are registered so that they can be calculated.
- The Account parameter includes a second F9 formula called BSPEC which stands for Build SPECifier. This will be explained later in the User Guide but for now, understand that it is used to build out combinations of account parameters.

3. Expand Report

The next steps will show how to extend results across columns and rows using just Excel.

- Click on cell E9 which has the dropdown: January
- Hover the mouse until the icon changes to:



• Drag the cell across to output months January to June

January	✓ bruary	March	April	May	June

<u>Note</u>:

- > The above step is using Excel's feature called Auto Fill
- > Notice how F9 period dropdown controls are copied to each cell
- Next select cell E11 which has the GL balance: \$1,975.26
- Drag the cell across columns E through J

	January	February	March	April	May	June	
Petty Cash	1,975.26	1,975.26	1,975.26	1,975.26	1,975.26	1,975.26	
							-

• Click Shift-F9 to recalculate the balances for the new formulas

J1	1 *	: ×	√ f:	GL(BS	SPEC(\$B\$1	I,\$A11,\$B\$	2),J\$9,\$B\$4	I,\$B\$5,\$B\$(5,\$B\$7)		
	Α	В	С	D	E	F	G	Н	I.	J	к
1	Location:	*									
2	Department:	*									
3											
4	Companies:	Demo									
5	Years:	2018									
6	Types:	ACTUAL									
7	Currencies:	Home									
8											
9					January	February	March	April	May	June	
10											
11	10005			Petty Cash	1,975.26	1,993.02	2,010.96	2,010.96	2,010.96	2,010.96	
12											

Note:

- Shift-F9 calculates the active worksheet tab where-as F9 calculates all open workbook(s)
- Click on **cell A12** (which is empty)
- Enter the range: **'10010..10020**
- Click on **cell A13** (which is empty)
- Enter the wild card account: '1003*
- Next, select cells D11 to J11
- Drag the cells down 2 rows using Excel's auto fill
- Click Shift-F9 to recalculate

D	D11 ▼ : × ✓ f _* =DESC(BSPEC(\$B\$1,\$A11,\$B\$2),\$B\$4,\$B\$5,\$B\$6,\$B\$7)											
	Α	В	С	D	E	F	G	Н	1	J		
1	Location:	*										
2	Department:	*										
3												
4	Companies:	Demo										
5	Years:	2018										
6	Types:	ACTUAL										
7	Currencies:	Home										
8												
9					January	February	March	April	May	June		
10												
11	10005			Petty Cash	1,975.26	1,993.02	2,010.96	2,010.96	2,010.96	2,010.96		
12	1001010020			Cash in Bank - Account #1	935,874.94	944,297.81	952,796.48	952,796.48	952,796.48	952,796.48		
13	1003*			Marketable Securities	6,854.05	6,915.72	6,977.93	6,977.93	6,977.93	6,977.93		
14												

Notes:

- The F9 GL formula uses cell referencing for parameters and this allows you to **auto fill** (or copy) to other **rows and columns**.
- F9 formulas can reside anywhere in the worksheet which offers a high level of flexibility.
- F9 account segments can be single values, ranges, wildcards, as well as lists.

- A single quote was entered in front of Account segments for Excel to treat as text. This is useful so that Excel does not format as a numeric result; for example: 100-10 (= 90)
- Notice in column D there are account descriptions with another F9 formula called: =DESC(). This is described in more detail later in the guide.

4. F9 Calculate

With just one Insert GL function, you can see that the beginnings of a new report were created easily as all the cell referencing within the GL formula was setup correctly. In addition to the F9 formulas, there are also report dropdowns created for you.

- Select cell B5 and change to year 2017.
- F9 Ribbon + Calculate + Worksheet
- Select cell B2 for Department
- Change to '000 and then F9 Ribbon + Calculate + Worksheet
- Select cell B2 for Location
- Change to **B** and then **F9 Ribbon + Calculate + Worksheet**

B	L ×	: ×		√ _ f:	'в							
	А	В	L.	с	D	E	F	G	н	I.	J	
1	Location:	в	Y									
2	Department	000	1									
3												
4	Companies	Demo										
5	Years:	2017	1									
6	Types:	ACTUAL	1									
7	Currencies:	Home	/									
8		\sim										
9						January	February	March	April	May	June >	
10						_		_				
11	10005				Petty Cash	Petty Cash	Petty Cash	Petty Cash	Petty Cash	Petty Cash	Petty Cash	
12	1001010020				Cash in Bank - Account #1	31,355.17	31,639.93	31,927.28	32,217.24	32,509.82	32,805.05	
13	1003*				Marketable Securities	160.88	162.34	163.82	165.30	166.80	168.33	
14												

Notes:

- The above highlights all the cells where F9 created Dropdown parameters from the first Insert GL Function step.
- When a dropdown is not selected, it displays as regular text which is helpful when printing and publishing reports.
- F9 Dropdowns can also be moved. For example, you can cut and paste the Year dropdown to be closer to Periods.

See demo video: GL Insert

4.8 Absolute and Relative Cell Referencing

By default, a formula you create in Excel uses Relative cell references. This means that if you copy a formula, Excel will automatically adjust the cell references in the copied formula to refer to different cells, relative to the position of the original formula. An example would be: =A5*.50 (both column and row are relative and can change).

If you want to maintain the original cell reference when copying formulas to different rows or columns, you make the cell address absolute by preceding both the column and row with a dollar sign (\$). For example: \$A\$2 (the address will not change).

Perhaps less often, there are situations where you will want to copy formulas relative to different column headings such as budget types or periods. In this case, only part of the cell reference is fixed and the other should change relative to where it is copied or auto filled by Excel. An example: G\$10 (row 10 is fixed and the column can change).

The following table summarizes how cell references change when copied:

	А	В	С	
1				
2				
3				

Original Reference:	Changes To:
\$A\$1	\$A\$1 (absolute reference)
A\$1	C\$1 (column is relative; row is fixed)
\$A1	\$A3 (column is fixed; row is relative)
A1	C3 (column and row are both relative)

When entering a cell reference, press **F4** to see how Excel toggles through different types of references for you.

4.9 Insert GLTRAN

This section steps through how to build a report that sums up transactions. There may be instances where you need to calculate by week, for example, and GLTRAN is used for this scenario.

The GLTRAN formula is very similar to GL and NGL but uses a start/end date range instead of a period parameter.

1. F9 Ribbon

- Select a new blank worksheet
- From the F9 Ribbon, click Functions
- Select GLTRAN



A task pane will next open in Excel.

2. Insert GLTRAN

• From the F9 task pane, select the following:

1	F9 GLTRAN	-	×
	Source	?	<u>{</u>
	Company Controls		\sim
	Companies:		
	Demo		-
	Types:		
	ACTUAL		-
	Amounts:		
	Net		-
	Currencies:		_
	Home		•
	Transaction Dates		
	Date From: Date To; 2018-03-01 ▼)	•
	Account Segments		
	Location:		
	*		-
	Account:		
	3*		-
	Department:		
	*		-

Note:

•

All of the dropdowns represent parameters that will be included in the GLTRAN formula.



The sum displays beside the button.



• Next, click to have F9 create a new GLTRAN formula template on the worksheet.

FS) -	\times	$\checkmark f_x$	=GLT	RAN(BSPEC(\$B\$1,\$A9,\$	B\$2),F\$6,F\$7	,\$B\$4,\$B\$	5&","&\$B\$6	5,\$B\$7)
	А	В	С	D	E	F	G	н	I.
1	Location:	*							
2	Department:	*							
3									
4	Companies:	Demo							
5	Types:	ACTUAL							
6	Amounts:	Net			Start Date:	2018-03-01			
7	Currencies:	Home			End Date:	2018-03-15			
8									
9	3*				Sales - Product Line A	-372 486.18			
10									

• Select the cell with the GLTRAN formula and then click on the **Excel** formula bar; parameters display as color-coded:

SU	TM T	: ×	\checkmark f_x	=GLT	RAN(BSPEC <mark>(\$B\$1,\$A9</mark> ,\$	B\$2 <mark>),F\$6,F\$7</mark> ,	<mark>\$8\$4,\$</mark> 8\$5	&","&\$B\$6	,\$B\$7)
	А	В	С	D	E	F	G	Н	I.
1	Location:	*							
2	Department:	*							
3									
4	Companies:	Demo							
5	Types:	ACTUAL							
6	Amounts:	Net			Start Date:	2018-03-01			
7	Currencies:	Home			End Date:	2018-03-15			
8									
9	3*				Sales - Product Line A	=GLTRAN(B			
10									
11									

• From the Excel Ribbon, select Formulas + Insert Function

Function Arg	uments				?	×			
GLTRAN									
Account	BSPEC(SB\$1,SA9,SB\$2)	1	=	"(*)(3*)(*)"		^			
FromDate	1	=	"2018-03-01"						
ToDate	F\$7	1	=	"2018-03-15"					
Company	\$B\$4	1	=	"Demo"					
Туре	\$B\$5&","&\$B\$6	1	=	"ACTUAL,Net"		~			
No help availa	ible.		=	-372486.18					
·	Account								
Formula result = -372 486.18									
Help on this function OK									

÷.

3. Expand Report

The next steps will show how to extend results by rows using F9.

• From the F9 Ribbon select Dropdowns + Insert



- Highlight List
- Enter **3*** for **Account**

F9 Lists	~	×
Source	?	<u></u>
Dropdown	List	>
Company Controls		^
Companies:		
Demo	•	.
Types:		
ACTUAL	•	.
Years:		
2018	•	.
Currencies:		
Home	•	.
Account Segments		
Periods:		
January	•	.
Location:		
*	•	.
Account:		
3*	•	.
Department:		
*	•	.

• **Drag the Account filter** by selecting its button: and drop to cell A14 in the worksheet.

	Α	В	С	D	E	F
1	Location:	*				
2	Department:	*				
3						
4	Companies:	Demo				
5	Types:	ACTUAL				
6	Amounts:	Net			Start Date:	2018-03-01
7	Currencies:	Home			End Date:	2018-03-15
8						
9	3*				Sales - Product Line A	-372 486.18
10	30100					
11	30110					
12	30120					
13	30150					
14	30160					
15	30310					
16	30330					
17	30400					
18						

Note:

- > The above step copies all Account segments for 3*
- List was chosen to return a partial list of accounts as text
- Next select cells E9:F9 (the first description and amount)
- Drag to row 17

	А	В	С	D	E	F	
1	Location:	*					
2	Department:	*					
3							
4	Companies:	Demo					
5	Types:	ACTUAL					
6	Amounts:	Net			Start Date:	2018-03-01	
7	Currencies:	Home			End Date:	2018-03-15	
8							
9	3*				Sales - Product Line A	-372 486.18	
10	30100				Sales - Product Line A	-372 486.18	
11	30110				Sales - Product Line A	-372 486.18	
12	30120				Sales - Product Line A	-372 486.18	
13	30150				Sales - Product Line A	-372 486.18	
14	30160				Sales - Product Line A	-372 486.18	
15	30310				Sales - Product Line A	-372 486.18	
16	30330				Sales - Product Line A	-372 486.18	
17	30400				Sales - Product Line A	-372 486.18	
18							 +

• F9 Ribbon: Calculate + Range (to update selection only)



	A	В	С	D	E	F	
1	Location:	*					
2	Department:	*					
3							
4	Companies:	Demo					
5	Types:	ACTUAL					
6	Amounts:	Net			Start Date:	2018-03-01	
7	Currencies:	Home			End Date:	2018-03-15	
8							
9	3*				Sales - Product Line A	-372 486.18	
10	30100				Sales - Product Line A	-261 043.22	
11	30110				Sales - Product Line B	-55 727.86	
12	30120				Sales - Product Line C	-78 102.98	
13	30150				Sales Discounts	27 798.51	
14	30160				Sales Returns and Allo	1 858.20	
15	30310				Finance Charges	-420.21	
16	30330				Miscellaneous Charges	0.00	
17	30400				Freight Charges	-6 848.62	
18							

Note:

- > F9 creates dropdown filters relevant to the GLTRAN formula
- Click on cell B2
- Select dropdown value 000:

	А	В	
1	Location:	*	
2	Department:	*	-
3		*	_
4	Companies:	000 / Departmen	E B
5	Types:	ACTUAL	

• F9 Ribbon: Calculate + Worksheet

Calculate		<i>fx</i> Wizard	Ta
	Rang	je	
	Work	ksheet	
XI	Worl		

	Α	В	С	D	E	F
1	Location:	*				
2	Department:	000 / Department A	-			
3						
4	Companies:	Demo				
5	Types:	ACTUAL				
6	Amounts:	Net			Start Date:	2018-03-01
7	Currencies:	Home			End Date:	2018-03-15
8						
9	3*				Sales - Product Line A	-163 941.45
10	30100				Sales - Product Line A	-82 876.55
11	30110				Sales - Product Line B	-55 727.86
12	30120				Sales - Product Line C	-24 458.91
13	30150				Sales Discounts	1 579.61
14	30160				Sales Returns and Allo	71.47
15	30310				Finance Charges	-255.43
16	30330				Miscellaneous Charges	0.00
17	30400				Freight Charges	-2 273.78
10						

Notes:

- The F9 GLTRAN formula uses cell referencing for parameters and this allows you to **auto fill** (or copy) to other **rows**.
- F9 formulas can reside anywhere in the worksheet which offers a high level of flexibility.

- Because Insert GLTRAN started with row 9 (Account 3*), we can delete this row as it's unique accounts are in the rows below.
- Click on cell B6 to see that GLTRAN can sum different transaction amounts: (Net, Debit only, Credit only)



- Rename the tab to: GLTRAN
- Save the report file

See demo video: Insert GLTRAN

4.10 DESC

We have seen how F9 formulas return dynamic results when recalculated and this includes account descriptions. The DESC function returns descriptions for full account codes. If the formula is used on a range or list of accounts, the first account description found will be returned. In short, DESC should be used to return the Natural Account description.

Syntax:

=DESC(Account, Company, Year, Type, Currency)

Parameter	Description	Examples
Account	GL account(s)	100-000-00 1150-*-* 5000-01-*
Company	Company database	Demo
Year	Fiscal year	2018
Туре	Balance Type	ACTUAL
Currency	Currency	Ноте

F9 provides a number of tools to help build DESC formulas with the proper absolute and relative cell referencing:

- Table
- Insert Function GL

An example of a DESC formula built using Insert GL is shown next.

SU	× MU	: ×	✓ f;	=DESC(BS	=DESC(BSPEC(\$B\$1,\$A11,\$B\$2),\$B\$4,\$B\$5,\$B\$6,\$B\$7)				
	А	В	С	D	E	F	G	н	
1	Location:	*							
2	Department:	*							
3									
4	Companies:	Demo							
5	Years:	2018							
6	Types:	ACTUAL							
7	Currencies:	Home							
8									
9					January				
10									
11	10005			\$B\$6,\$B\$7)	1,975.26				
12									

4.11 SDESC

The SDESC function is similar to DESC but returns descriptions for the individual account segment. If the formula is used on a range or list of segments, the first description found will be returned. When your reports split segment parameters into separate cells, we recommend using SDESC.

Syntax:

=SDESC(Segment, Segment Number, Company)

Parameter	Description	Examples
Segment	GL account(s)	1000 1150 500*
Segment Number	Segment position in the full account code (1N)	1 2 3
Company	Company database	Demo

F9 tools and resources to help build SDESC formulas include:

- Wizard
- Sample Reports

Example of SDESC formula built by Wizard is shown next.

SU	JM 👻	: ×	$\checkmark f_x$	=SDESC(\$C11,2, \$B\$1	.)
	Α	В	С	D	E
1	Companies	Demo	I		
2	Periods	Horizontal	-		
3	Types	ACTUAL			
4	Years	2018			
5	Currencies	Home			
6	Location	*			
7	Account	Vertical			
8	Department	*			
9					
10				Description	January
11			10005	=SDESC(\$C11,2, \$B\$1)	1975.26
12			10010	Cash in Bank	946016.97
13			10015	Cash in Bank	10942.89
14			10020	Cash in Bank	-21084.92
15			10030	Marketable Securities	6854.05
16			10040	Accounts Receivable	3537546.33
17					

4.12 BSPEC

The BSPEC function expands the functionality of the Account code by **Building Account SPECifier** combinations. It is used for the **full account parameter** in F9 formulas where the segments are split in different cells.

Syntax:

=BSPEC(Segment 1, Segment 2, ... Segment N)

Segment:	Example:
Single	10050
Wild	5*
Range	101112
List	10,14,18,22
Mixed	000,1*,505525

You start to see the power of BSPEC when using different types of segments:

The BSPEC formula is typically found within F9 formulas such as **NGL**, **GL**, and **GLTRAN** but can also reside in a cell by itself. The major benefit for using BSPEC is for account combinations and the next example illustrates this in detail.

For a product sales total, you need to include account codes ranging from 1000..1200 and 1500..1700. Additionally, certain divisions are excluded from the report which is the second segment of the account code. The divisions do not fit in a range but are listed as: 01,03, and 2*

One way in Excel is to list all the unique account combinations in one cell as:

Cell A1:

1000..1200-01, 1000..1200-03,1000..1200-2*,1500..1700-01, 1500..1700-03, 1500..1700-2*

And the GL formula is:

=GL(A1,"this month",...)

If you have more segments and more groupings, the number of combinations will quickly become complex and difficult to maintain!

Instead, with F9's **BSPEC** formula, the **combinations** are built for you. Simply provide the segment groups:

Cell A1: 1000..1200,1500..1700 Cell A2: 01,03,2*

And the GL formula becomes:

=GL(BSPEC(A1,A2),"this month",...)

5 Dropdowns

Formulas are based on your GL parameters and F9 creates Excel dropdowns so that you do not need to memorize available values such as account segments, departments, and budgets that will change over time.

Creation of F9 dropdowns is automatic from reporting toolsets: Wizard, Table, PivotTable, Insert GL, and Insert GLTRAN.

When designing new reports, keep in mind that the dropdowns can reside anywhere in your Excel file and this section includes information on how to insert and work with individual dropdowns.

5.1 Insert

1. Source

- Select a new blank worksheet
- From the F9 Ribbon, click Dropdowns
- Select Insert



A task pane will display on the left.

F9 Lists		•	×
Source	(?	<u>ک</u>
Dropdown			
Company Controls			^
Companies: Demo Types:		•	.
ACTUAL		•	
Years: 2018		•	.
Currencies: Home		•	.
Account Segments			
Periods: January Location:		•	N
*		•	n
3*		•	N
Department: *		•	
Use 🎞 to Drag and	Drop		

There are two types of output that can be dragged into Excel: **Dropdown or List**. Simply select and it will be highlighted in blue.

For example, to output F9 dropdowns:



F9 parameters are dragged and dropped into Excel. With the mouse, you select and drag the icon to the right of its corresponding parameter.

Dropdown

An F9 dropdown is dynamic and contains all values for a given parameter. From time to time, this information can be refreshed; for example, when a new fiscal year is opened or when new account segments are added.

An example for Years:

Years:		12	 2018	•
2018	Tel 🛛 🖪 🕽	13		
1		14		

List

Copies a static list of parameter values into a range of cells.

F9 Lists	- ×	1	A	В	
Source	② 贷	2 3		ACTUAL	
Dropdown	List	4		BUDGET	
Company Controls	^	6	/		
Companies:		7			
Demo	▼ ::	9			
Types:		10			
ACTUAL		11			

For example, **Types** is dragged to cell **B3**:

Filtering Lists

If you want to copy a partial static list of values into a range of cells, just type the filtering criteria using F9 wildcards "..", "*", "?" or "," into the Combobox on the Insert Task Pane.



For example, to output Account segments that just start with 3, type 3*:

2. Options

There are additional settings which can be changed depending on how you want dropdowns or lists formatted. For example, if a new report needs to be created by department, we can drag the departments across columns.

• Click the **Options** button



• Select List Transpose


• Click the Close button

Х

• Drag a new List for Departments to cell B16

F9 Lists	- x	1	А	В	С
Source	② 贷	2			
Dropdown	List	4			
Company Controls		6			
Companies:		7			
Demo	.	8			
-		9			
Types:		10			
ACTUAL		11			
Years:		12			
2018	- II.	13			
Currencies:		14			
Home	-	15		000 / Department A	100 / Department B
,		17			100 / Department D
Account Segments		18			
Periods:		19			
January	▼ :"N	20			
		21	_/		
Location:		22			
*	<u> </u>	23			
Account:		24			
3*	- II.	25			
Department:		26			
*		27			
1		28			

3. New Report Template

To learn more on how to leverage F9's Drag and Drop features, the following steps demonstrate creating a new report template from scratch.

- Add a new blank Worksheet
- Click **Options**



- Change to use a Prompt and Dropdown Title
- Ensure List Transpose is not checked

F9 Lists	<i>▼</i> ×
Options	\times
Output	
 Prompt Dropdown Title Top of Control Left of Control 	Title *
 □ List Transpose ☑ List Descriptions 	

Click Close

Х

• Set **Dropdowns** as the type of parameter



• Drag and drop to cell A3

				A	В	С
F9 Lists	*	×	1			
Course	୍	522	2			
Source	\mathcal{O}	2023	3	Companies:	Demo	-
Dropdown			4	1		
			5			
Company Controls		~	6			
Companies:			7			
Demo	-		8			

• Repeat the same steps and drag **Types**, **Years**, **and Currencies** into subsequent rows:

	Α	В	С	D
1				
2				
3	Companies:	Demo		
4	Types:	ACTUAL		
5	Years:	2018		
6	Currencies:	Home	-	
7				

Next, we will output two parameters where the title displays above.

- Start dragging Location to cell B9
- Click **Top** for the Title prompt

Insert Title	×
Insert	
O No title	
○ Left	
О Тор	
ОК	Cancel

• Drag **Department** to cell **B10** with Title at Top

	А	В	С	
1				
2				
3	Companies:	Demo		
4	Types:	ACTUAL		
5	Years:	2018		
6	Currencies:	Home		
7				
8				
9		Location:	Department:	
10		*	*	-
11				

- From the dropdowns, select Location A and Department 000
- Resize the Excel columns if needed

	Α	В	С	
1				
2				
3	Companies:	Demo		
4	Types:	ACTUAL		
5	Years:	2018		
6	Currencies:	Home		
7				
8				
9		Location:	Department:	
10		A / Vancouver	000 / Department A	-
11				T

This can be considered the control area for the new report template.

Next, for the report we should build in columns to represent budget balances for the entire fiscal year.

• Select List as the source type

Source		?	<u>نې</u>
Dropdown	\langle	List	>

• For **Periods**, enter the following **range**:

Periods:	
Budget 1Budget 12	▼ :::↓

- Start dragging Periods to cell E12
- Check Transpose + OK



The result is F9 creates budget periods across 12 columns:

	Α	В	С	D	E	F	G	н	1	J	к	L	М	N	0	Р
1																
2																
3	Companies:	Demo														
4	Types:	ACTUAL														
5	Years:	2018														
6	Currencies:	Home														
7																
8																
9		Location:	Department:													
10		A / Vancouver	000 / Department A		1 Budget	2 Budget	3 Budget	4 Budget	5 Budget	6 Budget	7 Budget	8 Budget	9 Budget	10 Budget	11 Budget	12 Budget
11																

The next step for this template's parameters is to build in rows by main Account.

 Within Accounts, enter the following: 30* Account:



- Start dragging Accounts to cell B14
- Uncheck Transpose and Descriptions + OK

Lists Transpose						
Cancel						

The result is that F9 adds in rows of accounts for 30*

	А	В	с	D	E	F	G	н	1
1									
2									
3	Companies:	Demo							
4	Types:	ACTUAL							
5	Years:	2018							
6	Currencies:	Home							
7									
8									
9		Location:	Department:						
10		A / Vancouver	000 / Department A						
11									
12					1 Budget	2 Budget	3 Budget	4 Budget	5 Budget
13									
14		30100	 ₽						
15		30110							
16		30120							
17		30150							
18		30160							
19		30310							
20		30330							
21		30400							
22									

As a summary, eight report parameters were dragged and dropped into a new Worksheet. The control area contains F9 Dropdowns. Columns are based on budget periods and rows are setup by main segment.

With this report template, you can start building a single =GL formula that includes cell referencing to the parameters and then copy across rows and columns. Adding subsequent groups of accounts and subtotals should be a snap.

Watch demo video: Dropdowns

6 Scheduling

F9's Scheduling Hub is a robust, feature-rich application for running and distributing reports and a convenient point of access for managing them.



Some common scenarios:

- Run one or a group of reports
- Schedule overnight or hourly runs
- Email reports (or portions) to users
- Save to shared folders and sites
- Output to different formats such as PDF

With F9 Hub, you can easily automate the steps and this helps increase productivity.

F9 Hub also provides more advanced features such as: conditional email alerts, report filters, tree report generation, password protection, and Publish to Viewer.

F9 Hub runs as a separate application outside of Excel and replaces the older Scheduler from F9 Version 5. It can be launched from the F9 Ribbon or using Windows Start/Run.

For more information, visit the <u>product page</u> or refer to the installed **Scheduling Hub User Guide** to setup and begin using the F9 Hub!

Watch demo video: Scheduling Hub

7 Tools

With this guide, we will touch on two of F9's toolsets to cover tasks related to other products.

7.1 Publish to Viewer

There will be customers who install both F9 Report Writer licenses as well as F9 Viewers licenses.

F9 Report Writer users design, create, and maintain F9 reports and are also responsible for sharing to other non-F9 users.

F9 Viewer is for decision-makers who want to do more than look at static reports. Viewer provides an interface to easily drill, filter, and recalculate financial results.

Both F9 Report Writer and F9 Viewer run inside Excel but have different formulas. F9 formulas can be edited and copied anywhere whereas Viewer formulas can only be recalculated.

Within F9, you can easily publish your report for use by F9 Viewer.

- 1. Open Excel and set calculation to Manual
- 2. **File Open** the F9 report
- 3. F9 Ribbon: Publish + To Viewer



4. Follow steps to save the file to a new name/folder.

For more details on F9 Viewer, visit the <u>product page</u> or refer to the installed F9 Viewer documentation and help.

See video: Publish To Viewer

8 Resources

The information in this guide does not cover all aspects of F9's functionality but should provide a solid foundation.

We recommend referring to the installed product help topics for specific/more technical details as needed. As a refresher on how to use a particular F9 tool, there are many short videos to step through. The installed F9 sample reports showcase a variety of financial report scenarios and formulas which can be leveraged to build new reports. F9's website provides the entire picture for all products available including updates from the Downloads site.

From the F9 Ribbon, you can navigate to a number of resources.

8.1 Updates



Select Updates to have F9 check online to see if there any new updates for your product.

8.2 Help



- > Select Content to open F9's detailed product Help
- Click About to see your installed program versions of F9; this is often required by F9 Technical Support

8.3 License

When F9 is first installed, it initially runs as a trial.

A purchased license of F9 needs to be activated on either the workstation running F9 or a Server depending on what is required.

F9 can be easily activated by selecting its command from the F9 Ribbon.



For more details, please refer to the **product Help** content.

9 Appendix

9.1 Account Ranges

The majority of sample reports and formulas in this guide split the account segments into separate cells. Another option available is to use full account codes where segments are separated by dashes.

Syntax:

Segment1-Segment2-...-SegmentN

where **N** = total number of segments

A given segment can have wildcard characters and you can list multiple accounts in one cell. Examples:

Account Specifier:	Description:
*_*_*	All accounts
4000-*-*	All departments for account 4000
4*-010-00	All accounts starting with 4 for department 010 and subaccount 00
5?00-*- *	All accounts starting with 5 and last 2 characters 00 for all departments and subaccounts.
40005000-010-*	Range of accounts from 4000 to 5000 for department 010 and all subaccounts
4000-000-*,5100-010-*	Sum of 2 accounts: 4000-000-* and 5100-010-*
4000-010-005100-010- 00	Invalid – ranges only supported within each segment
4000,4100,5000-010-00	Invalid – use BSPEC to list segments
4*5*-010-00	Invalid – a segment cannot mix ranges with wildcards

Although these Account specifiers may seem to be able to accommodate every aspect of your reporting needs, imagine if you wanted to create a departmentalized report for each department. Using the above Account ranges will accomplish this, but you will have to recreate the report for each department, reentering the appropriate account ranges, each time specifying a different department.

A very important feature of F9 is allowing you to cell reference each segment of your account code individually, so that you can make your report turn on any segment of your account code. This is accomplished with the **BSPEC** Function.

See video: Manually Create GL Formula

9.2 Period Specifiers

In F9, period parameters use basic English words that related to accounting periods as well as calendar time lines. A variety of examples are listed in the reporting task panes (Pivot, Wizard, and Table) as well as F9 Dropdowns.

A given F9 parameter can consist of more than one period however, for best performance you should always use "year" or "ytd". For example:

1,2,3,4,5,6 (slow calculation) versus YTD 6 (fast calculation)

Period Specifier:	Description:
Month 2	Balance for fiscal period 2
This Month	Current (usually open) period
This Month Last Year	Current period in previous fiscal year
Last Month	Period before current fiscal period
Year, YTD, Year to Date	Total balance for periods up to current period
Change Month 5	Net period activity for period 5
September	Balance for calendar month September
QTR 1, Quarter 1	Total for first fiscal quarter
Half Year 2	Last 6 periods of fiscal year
Running Year 10	Adds prior year periods (11,12) plus YTD 10

Another feature of F9's periods is that the balance returned follows general accounting principles and is based on the type of account (Balance Sheet or P&L). By default, F9 returns a year to date balance for Balance Sheet accounts and a net period amount for P&Ls. With the correct wording, F9 can return any type of balance.

Period Specifier:	Results:
Month 5	BS : Open + 1 + 2 + 3 + 4 + 5 PL : 5
YTD 5	BS : Open + 1 + 2 + 3 + 4 + 5 PL : 1 + 2 + 3 + 4 + 5
Change 5	BS : 5 PL : 5
Year Change 5	BS : 1 + 2 + 3 + 4 + 5 PL : 1 + 2 + 3 + 4 + 5
Open 1	BS : Open 1 (open balance for year) PL : 0
Open 5	BS : 4 (ending YTD balance) PL : 0

Results vary depending on the account type as shown in the next table:

9.3 Migrating from F9 Version 5

Warning!

Your F9 V5 products (Report Writer and Viewer) need to be uninstalled from Control Panel before installing F9 V6. Otherwise application issues will most likely occur in F9 V5.

Reports from F9 Version 5:

 All your F9 V5 reports will continue to run in F9 Version 6 without requiring any changes.

New Functionality in F9 Version 6:

- Drag and Drop Filters
 - Improved storage of values is done behind the scenes when you add any new dropdowns to an F9 report file
 - No additional steps required by users

• Table Refresh

- F9 Version 6 Tables can have the underlying data rebuilt. For example, if new accounts are added, these will appear in the refreshed F9 Table
- For any F9 Version 5 Tables, you will need to recreate them with F9 V6 to have this new Refresh rows capability

• PivotTable Refresh

- F9 Version 6 PivotTables can also have the underlying data rebuilt. For example, for new accounts.
- For any F9 Version 5 PivotTables, you will need to recreate them with F9 V6 to have this new Refresh rows capability

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