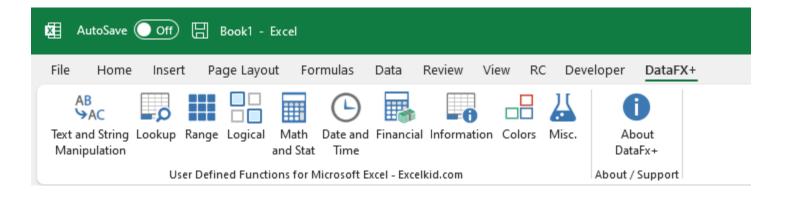
DataFX for Excel Range functions



ASG

D7		$\overline{\smile}$: $\times \checkmark f_x$ =ASG(9,80,33)						
4	Α	В	С	D		E	F	G
1								
2		Function						
3		ASG						
4								
5		Syntax						
6		=ASG(sNum,enNum,nStep)		Result				
7					9	42	75	
8								
9		One of the difficulties in generating complex array		Formula				
10		results is getting the array seeding sequence into a		=ASG(9,80,33)				
11		usable format.						
12		asable format.						
13		ASG - Array Sequence Generator allows for easy						
14		generation of custom complex steps of values.						
15		generation of custom complex steps of values.						
16		Each parameter can take a value or formula. The						
17		default step value is 1.						
18		- default step value is 1.						
19								

CELLARRAY

D1	2	\checkmark : $\times \checkmark f_x$ =CELLARRAY(D4,",")			
4	Α	В	С	D	Е
1					
2		Function		Example	
3		CELLARRAY			
4				10,20,30	
5		Syntax			
6		=CELLARRAY(Rng,Arguments,)			
7					
8					
9				Formula	
10				=CELLARRAY(D4,",")	
11					
12		CELLARRAY will return an array of values from the		10	_
13		reference cell(s) or text array. The array being anything		20	
14		the user determines is splitting the text into elements of		30	
15		an array.			
16					
17					
18					
19					
20		CELLARRAY(range, *delimiter[s], [optional] "/h", [optional] "/	/u")		
21					

CRNG

D12	2	\rightarrow : $\times \checkmark f_x$ =CRNG(D4:F4,D6:F6)							
4	Α	В	С	D	E	F	G	Н	1
1									
2		Function		Example					
3		CRNG							
4				1	2	3			
5		Syntax							
6		=CRNG(Arguments,)		4	5	6			
7									
8									
9				Formula					
10				=CRNG(D4:F	4,D6:F6)				
11	CRNG returns a set of non-contiguous range values as a								
12		CRNG returns a set of non-contiguous range values as a		1	2	3	4	5	6
13		contiguous range of values allowing the use of non-							
14		contiguous ranges in Excel functions.							
15									
16									
17									
18									

FIRST_UNIQUE

E7		$\overline{\ \ }$: \times f_x =FIRST_UNIQUE(D7,\$D\$4:\$D\$12)							
4	Α	В	С	D	E	F	G	Н	1
1									
2		Function							
3		FIRST_UNIQUE		Input	Output	Formula			
4				A	TRUE	=FIRST_UNIQ	UE(D4,\$D\$	54:\$D\$12)	
5		Syntax		В	TRUE	=FIRST_UNIQ	UE(D5,\$D\$	54:\$D\$12)	
6		=FIRST_UNIQUE(range1,rangeArray)		C	TRUE	=FIRST_UNIQ	UE(D6,\$D\$	54:\$D\$12)	
7				A	FALSE	=FIRST_UNIQ	UE(D7,\$D\$	54:\$D\$12)	
8				D	TRUE	=FIRST_UNIQ	UE(D8,\$D\$	54:\$D\$12)	
9				С	FALSE	=FIRST_UNIQ	UE(D9,\$D\$	54:\$D\$12)	
10				E	TRUE	=FIRST_UNIQ	UE(D10,\$E	\$4:\$D\$12)
11				F	TRUE	=FIRST_UNIQ	UE(D11,\$E	\$4:\$D\$12)
12		This function takes a single cell and an large range of		G	TRUE	=FIRST_UNIQ	UE(D12,\$E	\$4:\$D\$12)
13		cells and returns TRUE if the cell selected is the first							
14		unique value in the larger array of cells, and returns							
15		FALSE if it is not the first unique value.		Cell E7 is FALS	E because "A"	is not the first	unique val	ue in a sele	ected range.
16									
17									

FRNG

⊿ A	В	С	D	E	F	G
1						
2	Function		Values	Filter1	Filter2	
3	FRNG		10	a	X	
4			20	b	X	
5	Syntax		30	a	X	
6	=FRNG(Rng,Arguments,)		40	b	X	
7			50	a	X	
8			60	b	y	
9	FRNG returns an array of filtered values from given criteria against a range or		70	a	y	
10	ranges.		80	b	y	
11	runges.		90	a	y	
12			100	b	y	
13	Example:					
14						
15	Get the values from a D3:D12 range where Filter1 = "a" and Filter2 = "y".		Result			
16			70	90		
17	Formula					
18	=FRNG(\$D\$3:\$D\$12,\$E\$3:\$E\$12,"a",F3:F12,"y")					
19						

INRANGE

D1	.6	\checkmark : $\times \checkmark f_x$ =INRANGE(10,D3:D12)				
4	Α	В	С	D	E	F
1						
2		Function		Range		
3		INRANGE		32		
4				20		
5		Syntax		31		
6		=INRANGE(valueOrRange,SearchRange)		1		
7				33		
8				10		
9		This function takes a range or a value, and a second range, and		10		
10		returns TRUE if the first range or value is within the second range.		81		
11		Otherwise it returns FALSE.		89		
12				10		
13		Example:				
14		#1: 10 is a member of the selected range, so the result is TRUE				
15		#2:99 is not a member of the selected range, so the result is FALSE		Result	Formula	
16				TRUE	=INRANGE	(10,D3:D12)
17				FALSE	=INRANGE	(99,D3:D12)
18						

MAXN

D16	$\overline{\smile}$: $\times \smile f_x$ =MAXN(D3:D12,2)					
⊿ A	В	С	D	E	F	
1						
2	Function		Range			
3	MAXN		1			
1			10			
5	Syntax		10			
5	=MAXN(rangeArray,nthNumber,startAtBeginningFlag)		10			
7			100			
3	This function maxes up every Nth value of a range. For example, if you have a range		33			
)	that is 4 cells long, and set the nthNumber to 2, then only the 2nd and 4th cell value		50			
0	will be maxed up. Optionally, a third parameter can be set to TRUE, and if so the		40			
1	maxing will start at the first cell. For example, for 4 cells in a range and for the		30			
2	nthNumber set to 2, the 1st and 3rd cell will be maxed.		20			
3						
4	Example:					
5	#1: Find the maximum from a range that contain every nth [2] values {10,10,33,40,20}		Result	Formula		
6	#2: Find the maximum from a range that contain every nth [5] values {100,20}		40	=MAXN(D3:D12,2)		
7			100	=MAXN(D3	:D12,5)	
8						

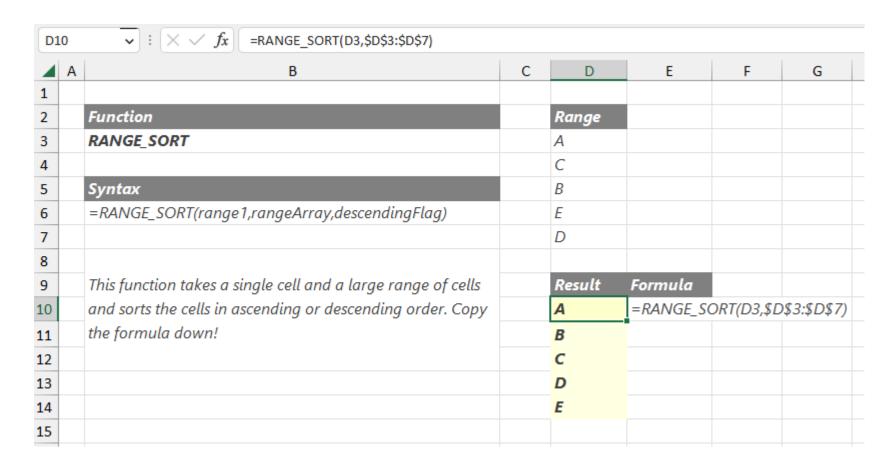
MINN

D16	\checkmark : $\times \checkmark f_x$ =MINN(D3:D12,2)				
⊿ A	В	С	D	E	F
1					
2	Function		Range		
3	MINN		60		
4			90		
5	Syntax		80		
6	=MINN(rangeArray,nthNumber,startAtBeginningFlag)		70		
7			100		
8	This function mins up every Nth value of a range. For example, if you have a range that		110		
9	is 4 cells long, and set the nthNumber to 2, then only the 2nd and 4th cell value will be		120		
LO	minned up. Optionally, a third parameter can be set to TRUE, and if so the minning will		130		
L 1	start at the first cell. For example, for 4 cells in a range and for the nthNumber set to 2,		140		
12	the 1st and 3rd cell will be minned.		150		
13					
14	Example:				
15	#1: Find the minimum in a range that contain every nth [2] values {90,70,110,130,150}		Result	Formula	
16	#2: Find the minimum in a range that contain every nth [5] values {100,150}		70	=MINN(D3.	D12,2)
17			100	=MINN(D3	D12,5)
18					

RANGE_REVERSE

D1	.0	$\overrightarrow{\bullet}$: $\times \checkmark f_x$ =RANGE_REVERSE(D3,\$D\$3:\$D\$7)						
4	Α	В	С	D	Е	F	G	
1								
2		Function		Range				
3		RANGE_REVERSE		A				
4				В				
5		Syntax		C				
6		=RANGE_REVERSE(range1,rangeArray)		D				
7				E				
8		This function takes a single cell and a large range of cells and						
9				Result	Formula			
10		reverses all values in the range. Copy the formula down!		E	=RANGE_RI	EVERSE(D3	3,\$D\$3:\$D\$	\$7)
11		reverses all values in the range. Copy the formula down:		D				
12				C				
13				В				
14				Α				
15								

RANGE_SORT



REPTX

4					
⊿ A	В	С	D	E	F
L 2	Function		Show	Repeat x times	String
3	REPTX		1		Apple
1			0		Banana
5	Syntax		1	4	Pear
5	=REPTX(strRng,repRng,horizontal)		0	3	Cherry
7					
3	REPTX is an array function and returns an array.				
)					
0	Another function evolved from the new dynamic array paradigm. Excel		Result	Formula	
1	has the REPT function that allows the user to repeat given text x times,		Apple	=REPTX(F3:F7,E3:E7))
2	and little else. REPTX allows the user to return x number of values to an		Apple		
3	array. The textValue can be from a range of cells, a dynamic formula,		Apple		
4	or another function passing an array. The repeat_x_times is a paired		Banana		
5	values to repeat that text x times, the argument being from a range or		Pear		
6	array argument. By default a vertical array is return by the function. If		Pear		
7	you wish to return a horizontal array, the third optional boolean		Pear		
8	argument horizontal should be TRUE or 1. The array will be spilled to		Pear		
9	the cells with Excel 365.		Cherry		
0			Cherry		
1	'REPTX (text, repeat_x_times [,return_horizonal_array])		Cherry		

RETURNCOLUMNS

D11	\rightarrow : $\times \checkmark f_x$ =RETURNCOLUMNS(D3:F6,2,3)				
⊿ A	В	С	D	E	F
1					
2	Function		col1	col2	col3
3	RETURNCOLUMNS		1	3	1
4			0	1	2
5	Syntax		1	4	3
6	=RETURNCOLUMNS(Arguments,)		0	3	45
7					
8					
9	RETURNCOLUMNS allows you to quickly return an array of columns				
10	from a reference data range, any column, any amount of times, simply		Return columns 2 and 3		
11	by referencing the index of the column. RETURNCOLUMNS allows you		3	1	
12	to set a row limit on the data returned with the optional first argument		1	2	
13	as an integer value.		4	3	
14			3	45	
15	This allows for dynamic use and render of arrays with the new				
16	features coming in Excel 365. Note the Excel VBA array limit of		Formula		
17	65536 rows of data applies to this UDF in older versions - just be		=RETURNCOLUMNS(D3:F6,2,	3)	
18	aware.				
19					

SEQUENCE_365

D6	\checkmark : $\times \checkmark f_x$ =SEQUENCE_365(3,3,2,2)				
⊿ A	В	С	D	E	F
1					
2	Function				
3	SEQUENCE_365				
4					
5	Syntax		Result		
6	=SEQUENCE_365(nRows,nCols,nStart,nStep)		2	4	6
7			8	10	12
8	SEQUENCE_365 emulates Microsofts SEQUENCE function whereby it		14	16	18
9	generates an array of values as specified by user input. To create an				
.0	array of values on the worksheet you can select the area and enter the				
11	formula in the active cell with ctrl+shift+enter for the selected cell		Formula		
12	range to be populated with the array. Alternatively just reference as		=SEQUENCE_365(3,3,2,2)		
13	required in your formula. ROWS - the row count for the array.				
14	COLUMN - an option value for the the column count for the array, the		Arguments:		
15	default is 1. Start - an optional value at which to start number		nRows = 3		
L 6	sequence, the default is 1. Step - an optional value at which to		nCols = 3		
17	increment/decrement the values, step default is 1.		nStart = 2		
L8	and entering accident the values, step dejude is 1.		nSStep = 2		
19	See SEQUENCER for sequencing with a vertical value population option				
20	and dynamic size specifier from a range.				
21	and dynamic size specifier from a range.				
22					

SEQUENCER

⊿ A	В	С	D	E	F	
1	В		D	L	Г	
2	Function		Formula			
3	SEQUENCER		=SEQUENCER(3,2,10,10,"v")			
4						
5	Syntax		Result (vertical population)			
6	=SEQUENCER(vxAxis,arg1,arg2,arg3,arg4)		10	30	50	
7			20	40	60	
8	SEQUENCER allows for quick and easy creation of a sequence within					
9	an array. The size of the array can be dynamic through reference to a					
.0	Table or Named range to match the size, or chosen by the user using a					
1	constant value or dynamically via a formula. SEQUENCER has a "v"					
2	switch for vertical population of the array value sequence, whereby					
.3	horizontal population is the result. The "v" switch can be put in place of		Formula			
4	any argument after the first one, or at the end in its own place. The		=SEQUENCER(3,2,10,10)			
.5	horizontal switch forces the sequence to be populated vertically rather					
.6	than horizontally in the array. This is not the same as transposing the		Result (horizonzal p	opulation)		
.7	array. The array can be transposed by wrapping in the TRANSPOSE		10	20	30	
.8	function. To create a grid of a sequence of values, select that range and		40	50	60	
.9	enter the formula in the active cell and enter with ctrl+shift+enter. If					
20	you select a range larger than the array parameters cater for, those					
21	array elements will be populated with #N/A. An interesting way to see					
22	the formula in action is to select a large range for the function and use					
23	5 reference cells for the arguments, populating those values you will					
24	see the array generated dynamically in your selected region.					

SPLITIT

E3	$\overline{\checkmark}$: $\times \checkmark fx$ =SPLITIT(D3,".",3)								
⊿ A	В	С	D	Е	F				
1									
2	Function		Value list	Result	Formula				
3	SPLITIT		172.50.100.5	100	=SPLITIT(D3,".",3)				
4			Allen,John,age,10	2	=SPLITIT(D4, ",", 0, "John")				
5	Syntax		A/B/C/D/E	John	=SPLITIT(D3:D5, ",", 3)				
6	=SPLITIT(Rng,Delimiter,return_element,txt)								
7									
8									
9	SPLITIT will return a given element within an array of text, or the								
10	location of the element containing the text - the array being anything								
11	the user determines is splitting the text into elements of an array. This								
12	dual functionality allows for the easy return of paired values within the								
13	text array. See the CELLARRAY function to return cell values as an								
14	array.								
15	urruy.								
16									

STACKCOLUMNS

D16	$\overline{\ \ }$: \times \checkmark f_x =STACKCOLUMNS(3,D2:D10,E	2:E10,	F2:F10)					
⊿ A	В	С	D	Е	F	G	Н	1
1								
2	Function		colA	▼ ColB ▼	ColC -	ColD 🔽		
3	STACKCOLUMNS		A1	B1	C1	D1		
4			A2	B2	C2	D2		
5	Syntax		A3	B3	C3	D3		
6	=STACKCOLUMNS(grp,Arguments,)		A4	B4	C4	D4		
7			A5	B5	C5	D5		
8	STACKCOLUMNS allows you to stack		A6	B6	C6	D6		
9	referenced ranges into a set number of		A7	B7	C7	D7		
10	columns in an array. It takes the referenced non		A8	B8	C8	D8		
11	contiguous ranges and stacks them into a							
12	contiguous range in an array. This allows you							
13	to format disparate data for querying as a							
14	contiguous block of data.		Stack data from 3 range	references, of	disparate	widths, to	3 column	s wide
15								
16	=STACKCOLUMNS(3,D2:D10,E2:E10,F2:F10)		colA	ColB	ColC			
17			A1	B1	C1			
18			A2	B2	C2			
19			A3	B3	C3			
20			A4	B4	C4			
21			A5	B5	C5			
22			A6	B6	C6			
23			A7	В7	C7			
24			A8	B8	C8			
25								

VRNG

D1	.0	▼ : (× ✓ fx) =VRNG(D3:D6,F3:F4,H3:H6)							
4	Α	В	С	D	Е	F	G	Н	1
1									
2		Function		Range1		Range2		Range2	
3		VRNG		10		а		X	
4				20		b		X	
5		Syntax		30				X	
6		=VRNG(Arguments,)		40				X	
7									
8		When given a range of cells Excel evaluates the range on a							
9		row by row basis and not on a column by column basis.		Result		Formula			
10				10		=VRNG(L	6,F3:F4,H3	:H6)	
11		VRNG will return an array of column values from a given		20					
12		range in a single vertical array. This will allow for the		30					
13		processing of a table of cells as a single column in an array		40					
14				а					
15				b					
16				X					
17				Х					
18				Х					
19		'VRNG (rng1 [, rng2 , rng3 ,])		Х					
20									