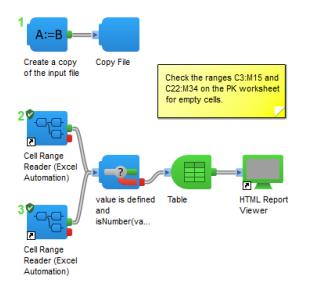
07 Find Empty Cells in a Range

Purpose

Automatically find empty cells in a specified cell range and generate an alert.



Workflow

In this example we read cell values in the ranges C3:M15 and C22:M34 on the **PK** worksheet in the file data/Animal Safety Study.xlsx and check for empty cells.

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	C3			83.07826346									
	A B	С	D	E	F	G	Н	- I	J	K	L	M	
	A 30 mg/kg												
2	animal#	1	2		4	5		7	8	9	10	11	
3			154.8818471		151.22749		117.3759036	153.674108			111.9631173	119.5541901	
1		31.58151871		21.69388553							12.21921277		
5	14	36.08318228		35.38526436		22.98309965				29.61079578			
5		31.53094983		31.12939676	18.74200499		33.43518321	28.33263003		31.05877289		15.48829358	
7		26.91945066	32.14973856		15.34265574			30.9392931			17.62031577		
:	17	38.45292607		21.64522857		23.04272192		36.2601067	24.48752207		17.34188452		
		29.51585633	40.48714908		17.373167						17.28025078		
0	19	26.28635011	30.83712568		17.36745186			34.58604182	17.4882432	24.30792209		11.5047396	
L				14.45247803		13.86400587			15.60063529		16.82507316		
2	21	33.5646725	22.488376		15.28607504			23.77062511	13.7468168	19.88918603			
3				11.37463147	14.72898121		16.96916799		10.0315567	16.69278342		35.76956179	
4		26.55231788		8.394792878			13.41128195						
5	24	32.52877807	19.19385454	11.48773688	32.56999167	8.335339616	13.63622782	24.02813574	8.030024376	16.16827553	30.35935017	7.491231584	
ь 7	AUC	378.1	440.12	302.1	275.34	279.2	328.84	419.23	320.12	378.11	269.08	279.56	
8	AUC	578.1	440.12	302.1	275.34	279.2	328.84	419.23	320.12	378.11	269.08	279.56	
。 9													
	B 30 mg/kg												
, 1	animal#	1	2	3	4	5	6	7	8	9	10	11	
2		97.09366629		3 115.8801356							114.1637493		
-				12.24675222			100.7321401	12.58661864			16.05827044		
, 1		135.8441787	135.6689159		108.7267676		110.3842406			72.13885039		13.21344040	
5	14	125.7715392			147.1787879		103.714655			88.89451675		75 38626053	
5	15	107.7066302		106.4693814	111.6305903	103.0173288		133.7345915		63.55258558		76.71307642	
7				75.06197058	104.5537415			102.6070656	115.597015		82.94523445		
3	18	84.78989352			109.6081962	88.566736	87.5672484	94.54891354			87.71309195		
,	10	82.71850448	100.8018398		97.11685374	75.31122128		76.60098814		51.88046358			
5	20	85.81719128			90.51219307		62.91214675	113.8036606			65.36619034		
i	21	67.48128267	73.24753783		78.91336691	60.30001549	58.83019091	75.04115045		49.28885061			
2	22	46.3873577	59.65068164		78.44273801			61.08348074	68.85556801	50.45987232			
3	23	36.70369534	59.70639948	58.6896085	68.08348612			62.3860738			49.03748849		
1		47.42546821		62.55778412			41.5173473	49.7972328			38.86386547		
5													
5	AUC	963.13	1238.43	1002.15	1119.61	981.65	949.54	1024.97	1069.86	724.84	839.78	542.55	
7													
8													
_	1.14.4	Ani	mals PK)+)									

Before reading any data we make a copy of the input file in the job directory. The original input file is shared by all users of the exercise: creating a copy helps ensure it is not accidentally modified if you later decide to use a writer component on it.

Using the **Cell Range Reader** component, we read from our copy of the file and extract the values from ranges C3:M15 and C22:M34 on the **PK** worksheet. We send the cell contents into Pipeline Pilot as data records with the property "value". Using a PilotScript filter component we check for blanks (value is defined and isNumber(value)) and generate an alert table in a web browser window.

There are three blanks: in cells M4, H23, M24.

Excel Automation examples

Results

Here is the result of the protocol.

A style state in the state of the state									
Empty Cells on the PK Worksheet									
col	row	celladdr	value						
13	4	M4							
8	23	H23							
13	24	M24							