

FINANCIAL MODELLING -AUTOMATING MONTH END

26 February 2015



John Tennent | Corporate Edge

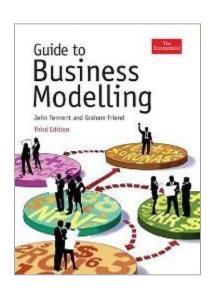
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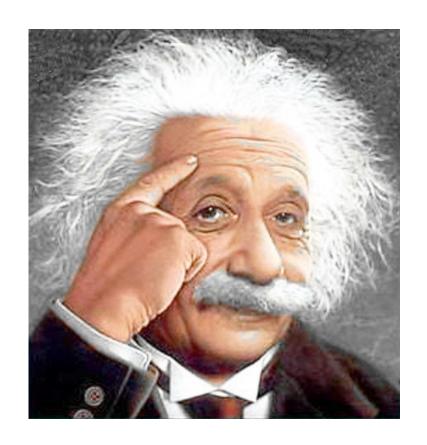
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- **Model Creation**

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Albert Einstein



Definition of **Insanity**:

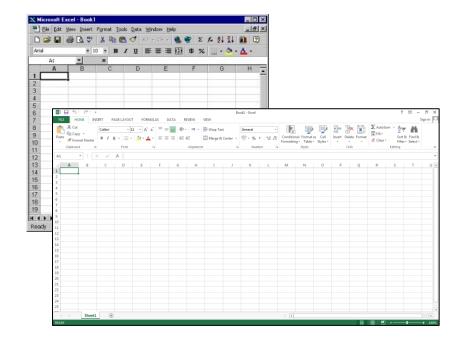
'Doing the same thing over and over again and expecting different results'...

Financial Modelling - Automating Month End

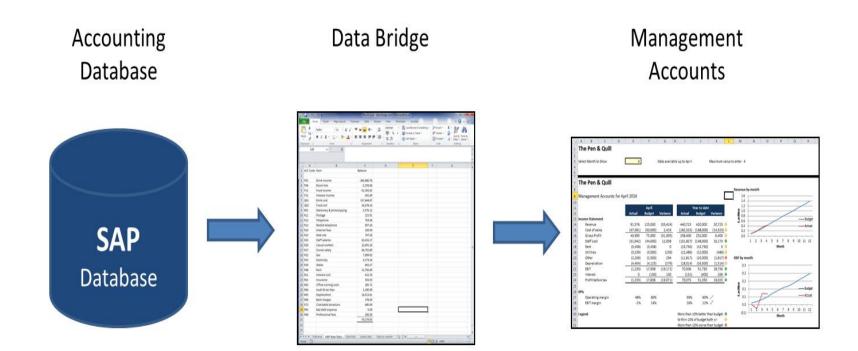
How to apply best practice Excel techniques to automate month end Primarily for SMEs – Small and Medium Enterprises

All techniques can be applied in Excel 2003 (version 11) through to 2013 (version 15) – except Sparklines

No Macros will be used so procedures can be easily replicated by anyone with a reasonable knowledge of Excel



The Structure of the Process



Summarise and cleanse bulk data

Store historic and budget data to produce instant accounts

Example Model

A simple model to look at Excel principles (not operating complexities)

Scenario: A pub restaurant

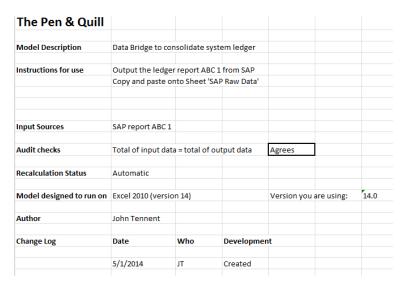
'The Pen & Quill'





Lets take the tour....

Welcome SAP Raw Cleansed Code Linked Transfer Data Data Links Data Data



User information

=INFO(.....)

- "DIRECTORY" Current directory or folder
- "NUMFILE" Active worksheets
- ORIGIN" Top and leftmost visible cell
- OSVERSION" Operating system version
- "RECALC" Recalculation mode
- "RELEASE" Version of Microsoft Excel
- SYSTEM" Operating Environment

Welcome

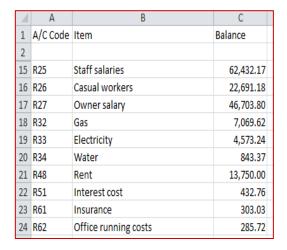
SAP Raw Data Cleansed Data

Code Links Linked Data

Transfer Data







How to cleanse data

- **=TRIM**(Text) Removes spaces
- **=LEFT**(Text, Number of Letters)
- **=RIGHT**(Text, Number of Letters)
- **=MID**(Text, Start at Letter Number, Number of Letters)
- **=CLEAN**(Text) Removes non printable characters
- **=SEARCH**(Find Text, Within Text, [Start at Letter Number])
- **=REPLACE**(Text, Start at Letter Number, Number of Letters, New Text) replace a portion of text

Welcome SAP Raw Cleansed Code Linked Transfer Data Data Data

Prepare summary sheet with account codes

1	A	В	С	D	E	F	G	Н	1	J	K	L	M	N	0
1	Code Links														
2															
3	Income Statement														
4															
5	Revenue		PO)1	P04	P11									
6	Cost of sales		Q	01	Q02										
7	Staff cost		R2	25	R26	R27									
8	Rent		R4	18											
9	Utilities		RS	32	R33	R34									
10	Other		RO)1	R11	R12	R13	R14	R15	R61	R62	R64	R68	R73	R95
11	Depreciation		R6	55											
12	Interest		P2	21	R51										
13															

Welcome SAP Raw Cleansed Code Linked Transfer Data Data Data Data

Look up values to match the codes

1	А	В	C D	E	F	G	Н	- 1	J	K	L	M	N
1	Linked Data												
2													
3	Income Statement	Total											
4													
5	Revenue	(440,722.82)	(385,861)	(2,559)	(52,303)	0	0	0	0	0	0	0	0
6	Cost of sales	182,323.01	157,645	24,678	0	0	0	0	0	0	0	0	0
7	Staff cost	131,827.15	62,432	22,691	46,704	0	0	0	0	0	0	0	0
8	Rent	13,750.00	13,750	0	0	0	0	0	0	0	0	0	0
9	Utilities	12,486.23	7,070	4,573	843	0	0	0	0	0	0	0	0
10	Other	11,817.02	5,975	216	754	907	250	748	303	286	1,200	378	600
11	Depreciation	18,013.61	18,014	0	0	0	0	0	0	0	0	0	0
12	Interest	130.87	(302)	433	0	0	0	0	0	0	0	0	0
13		(70,374.93)											

Welcome SAP Raw Cleansed Code Linked Transfer Data Data Data Data

Codes are converted to values

=IFERROR(INDEX('SAP Raw Data'!\$C\$3:\$C\$30,**MATCH**('Code links'!D5,'SAP Raw Data'!\$A\$3:\$A\$30,0)),0)

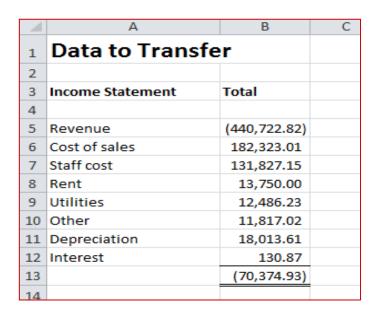
=IFERROR(Value, Value if error)

=INDEX(Column with Account Balances, MATCH (Account Code, Column with all Account Codes, Match Type))

Better than **VLOOKUP** – faster and the account balance can be on the left of the account code

Welcome SAP Raw Cleansed Code Linked Transfer Data Data Links Data

Summarised data to transfer - Management Accounts links here



Welcome

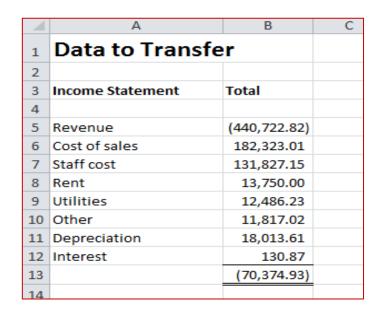
From Data Bridge

Actual YTD

Budget by Month

Management Accounts

Summarised data linked to Data Bridge – A mirror sheet





Welcome

From Data Bridge

Actual YTD

Budget by Month

Management Accounts

A copy and paste to put the data in the right column

1	Α	В	С	D	Е	F	G	Н	I
1	Actual Y	TD							
2									
3	Actual - Year t	to date							
4				Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14
5	Income State	ment							
6		Revenue	_	(90,235.45)	(167,489.25)	(349,147.25)	(440,722.82)		
7		Cost of sales		43,178.14	94,217.84	134,742.25	182,323.01		
8		Staff cost		32,954.11	68,441.56	99,885.14	131,827.15		
9		Rent		3,437.50	6,875.00	10,312.50	13,750.00		
10		Utilities		3,001.25	6,143.25	9,247.55	12,486.23		
11		Other		2,451.68	5,993.12	9,611.47	11,817.02		
12		Depreciation		4,125.58	9,284.87	13,609.45	18,013.61		
13		Interest		0.00	0.00	130.87	130.87		
14			~	(1,087.19)	23,466.39	(71,608.02)	(70,374.93)	0.00	0.00
15									
16	Data Loaded	up to April		1	2	3	4		
17									
18	8 Cumulative revenue		/	90,235.45	167,489.25	349,147.25	440,722.82	#N/A	#N/A
19	Cumulative m	nargin	_	47,057.31	73,271.41	214,405.00	258,399.81	#N/A	#N/A
20	Cumulative El	BIT	~	1,087.19	(23,466.39)	71,738.89	70,505.80	#N/A	#N/A

Welcome

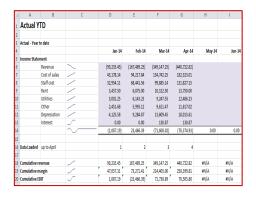
From Data Bridge

Actual YTD

Budget by Month

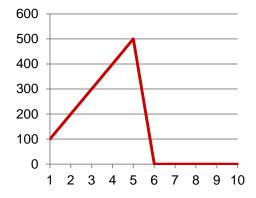
Management Accounts

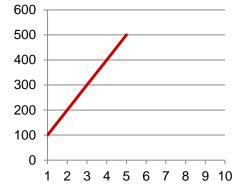
Features



Functions

Sparklines – To visualise the trends **=NA()** – Test data exists for graphs and use this within an IF statement. Graph lines are blank with =N/A rather than dropping to zero with a 0





Welcome

From Data Bridge

Actual YTD

Budget by Month

Management Accounts

Original budget data (a prior year set can also be added on another sheet)

A	Α	В	С	D	E	F	G	Н	I
1	Budget by Month								
2									
3	Budget da	ata - Year to date							
4				Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14
5	Income S	tatement							
6		Revenue	~~	(95,000.00)	(90,000.00)	(110,000.00)	(125,000.00)	(130,000.00)	(125,000.00)
7		Cost of sales		38,000.00	36,000.00	44,000.00	50,000.00	52,000.00	50,000.00
8		Staff cost		32,000.00	32,000.00	40,000.00	44,000.00	44,000.00	44,000.00
9		Rent		3,437.50	3,437.50	3,437.50	3,437.50	3,437.50	3,437.50
10		Utilities		3,000.00	3,000.00	3,000.00	3,000.00	3,000.00	3,000.00
11		Other		2,500.00	2,500.00	2,500.00	2,500.00	2,500.00	2,500.00
12		Depreciation		4,125.00	4,125.00	4,125.00	4,125.00	4,125.00	4,125.00
13		Interest		100.00	100.00	100.00	100.00	100.00	100.00
14			~~~	(11,837.50)	(8,837.50)	(12,837.50)	(17,837.50)	(20,837.50)	(17,837.50)
15									
16									
17	Cumulati	ve revenue		95,000.00	185,000.00	295,000.00	420,000.00	550,000.00	675,000.00
18	Cumulati	ve EBIT		11,937.50	20,875.00	33,812.50	51,750.00	72,687.50	90,625.00
10									

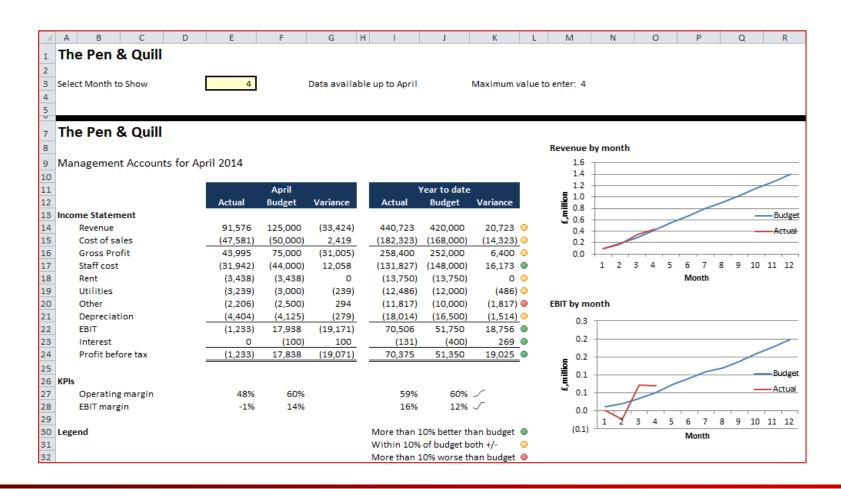
Welcome

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Budget by Month

Management Accounts



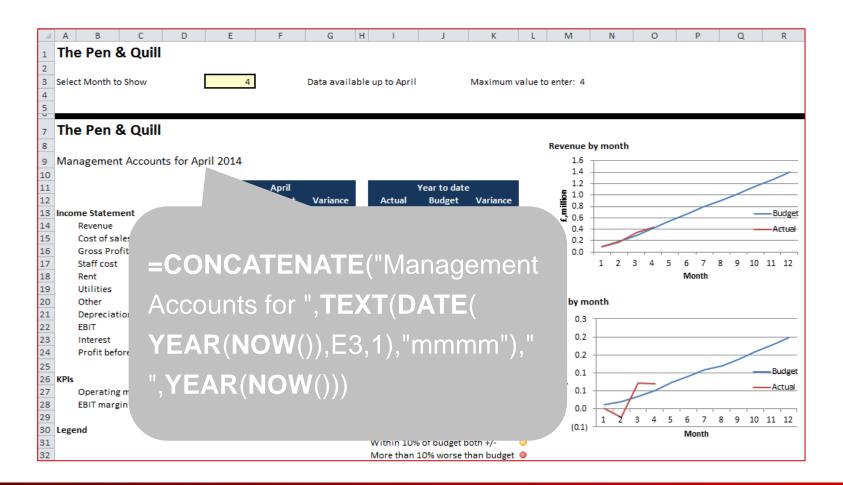
Welcome

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Using OFFSET

Indirect cell referencing to enable data changes

= OFFSET (Anchor cell, Rows Away, Columns Away)

	Α	В	С	D	Ε	F	G
1		2					
2		22 –	-	11	22	33	

=Offset(C2,0,B1)

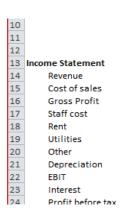
Welcome

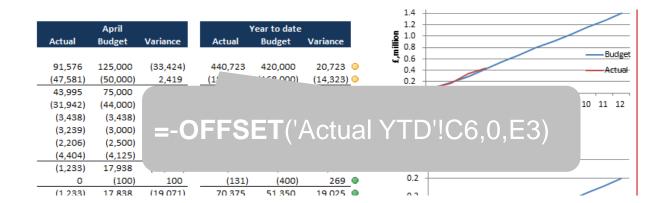
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Actual YTD

Budget by Month

Management Accounts





A	Α	В	С	D	E	F	G	Н	I
1	Actual YTD								
2									
3	Actual - Year t	o date							
4				Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14
5	Income Stater	nent							
6		Revenue	_	(90,235.45)	(167,489.25)	(349,147.25)	(440,722.82)		
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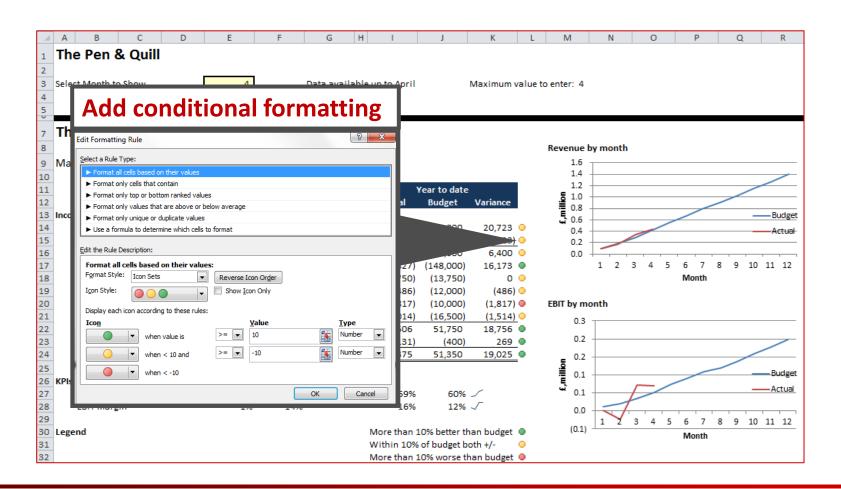
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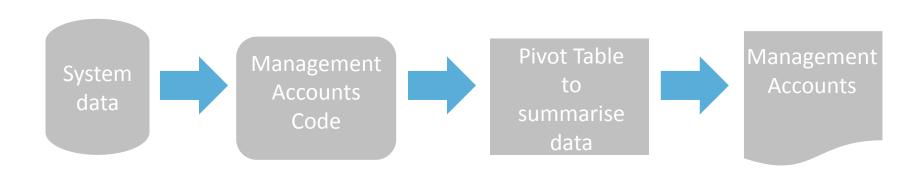
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Automating Management Accounts Production In Excel: A Simple Approach By Glen Feechan



Automating Management Accounts described in this webinar



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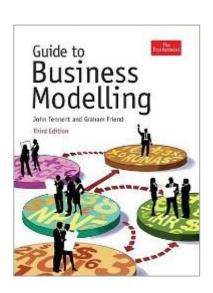
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