



Excel success stories

A webinar from the Excel Community exploring the best of the best examples of making the most of Excel

08 November 2022

Presenters:

Ben Ducker, RSM Corporate Finance

Adrian Maconick, Finsbury Solutions

Ian Pay, ICAEW

Introduction

Whether it's using Power Query to combine datasets, building a budgeting tool, or a really robust calculation engine - we'll be showcasing the best the Excel Community has to offer with practical, real-life use cases in this webinar.



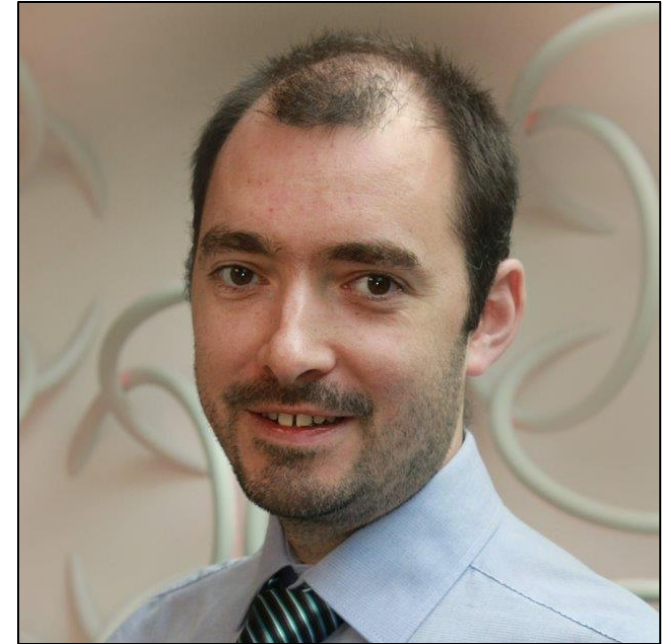
Today's presenters



Ben Ducker
Director
RSM UK Corporate Finance

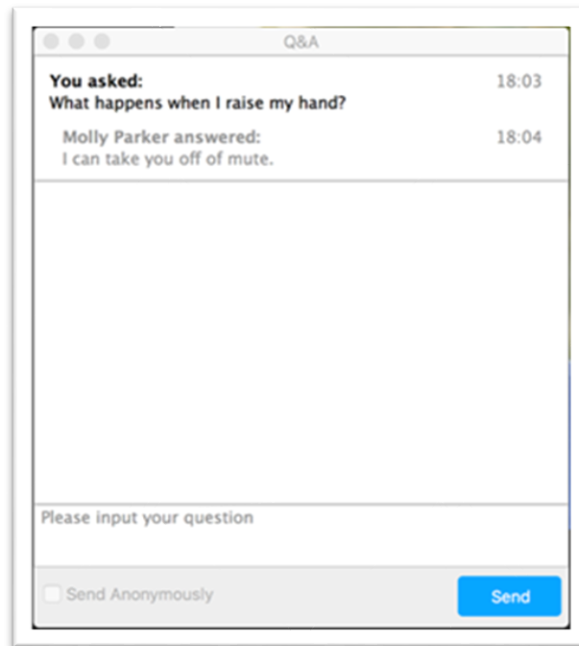


Adrian Maconick
Director
Finsbury Solutions



Ian Pay
Head of Data Analytics and Tech
ICAEW

Ask a question



The screenshot shows a window titled "Q&A". It contains a question and answer history:

You asked: What happens when I raise my hand?	18:03
Molly Parker answered: I can take you off of mute.	18:04

Below the history is a large empty text area for input. At the bottom, there is a text prompt "Please input your question", a checkbox labeled "Send Anonymously", and a blue "Send" button.

Click on the Q&A button in the bottom toolbar to open the submit question prompt.

Type in your question and click send.

Note. If you wish to ask anonymously tick the send anonymously box shown on the illustration to the left.

Excel solution during national crisis

Covid: how Excel may have caused loss of 16,000 test results in England

Technology

Excel: Why using Microsoft's tool caused Covid-19 results to be lost

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SCIENCE \ US & WORLD \ TECH \

Excel spreadsheet error blamed for UK's 16,000 missing coronavirus cases

News > UK News

'WHAT A FARCE' 30,000 Brits may not have been told they were exposed to coronavirus' after chief's 'Excel spreadsheet maxed out'

Excel solution during national crisis

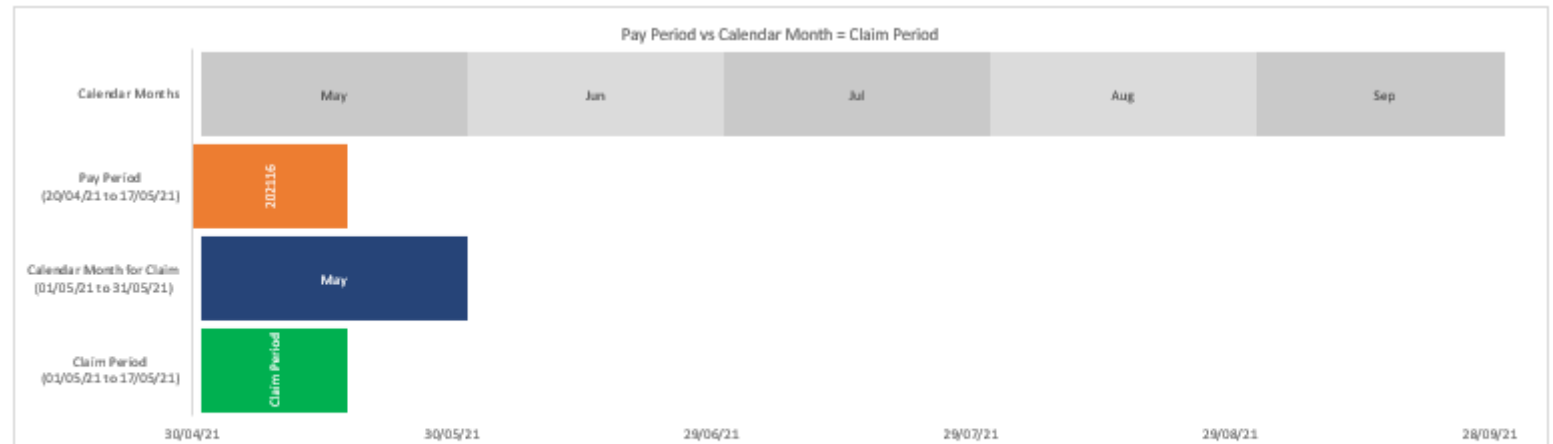


- Ben Ducker, Corporate Finance Director at RSM
- Helping companies calculate furlough payments during the pandemic
- Developed solution to enable clients to make correct payments to staff when the situation was evolving rapidly and as government policy shifted

Excel solution during national crisis

Excel formula: `=IF(AND([@C3.Claiming Input Set but No Grant Allowed]=1,[@Found on Payroll]=0),"Employee not found on payroll data. ", "")&IF(AND([@C3.Claiming Input Set but No Grant Allowed]=1,[@Import Validation Error]=1),"Missing or Invalid Import Data. ", "")&IF(AND([@C3.Claiming Input Set but No Grant Allowed]=1,[@Fixed vs Variable Assumed]="Fixed"),"Fixed Pay method used by No Pay Received in Feb. ", "")&IF(AND([@C3.Claiming Input Set but No Grant Allowed]=1,[@C3.Claiming User Input]=1,[@First day furlough]=""),"Furlough start date missing. ", "")&IF(AND([@C3.Claiming Input Set but No Grant Allowed]=1,[@C3.Claiming User Input]=1,[@Last day furlough]=""),"Furlough end date missing. ", "")&IF(AND([@C3.Claiming Input Set but No Grant Allowed]=1,[@C3.Claiming User Input]=1,[@Meets Minimum?]=0,[@First day furlough]<>"",[@Last day furlough]<>""),"Furlough period too short to claim. ", "")&IF(AND([@C3.Claiming Input Set but No Grant Allowed]=1,[@Fixed vs Variable]=""),"Fixed / Variable input missing. ", "")&IF(AND([@C3.Claiming Input Set but No Grant Allowed]=1,[@Fixed vs Variable]="Variable",[@Total pay for 2019/20]=0,[@Same period Last Year Pay Received]=0),"Variable paid employee with no 'same period' and no '2019/20' payments. ", "")&IF(AND([@C3.Claiming Input Set but No Grant Allowed]=1,[@S.Days to calculate Furlough during Claim Period]=0),"No furlough dates during current pay period. ", "")`

C2.Days in Claim Period	C2.Days in Month	C2.Profit	C2.Monthly Limit	C2.Profit Rate	C2.Potential Reason?	C3.Claiming User Input	C3.O.Gross Pay Grant in Period	C3.Claiming Input Set but No Grant Allowed	C3.Potential Reason	C4.Basic Pay in Period per Payroll Data	C4.O.Gross Pay Grant in Period 2	C4.Grant Excess	C4.Additional Payment Due to Employee?	C4.Comment	C5.Usual Period
17	31	543.00	2,500.15	-		1	298.22	-		1,205.57	298.22	907.35	-	- Employee pay for PAYROLL period exceeds grant for CLAIM period - no check possible.	
17	31	502.00	2,500.15	-		1	275.57	-		1,500.52	275.57	1,224.95	-	- Employee pay for PAYROLL period exceeds grant for CLAIM period - no check possible.	
17	31	531.00	2,500.15	-		1	291.43	-		1,795.00	291.43	1,503.57	-	- Employee pay for PAYROLL period exceeds grant for CLAIM period - no check possible.	
17	31	531.00	2,500.15	-		1	291.43	-		1,674.24	291.43	1,382.81	-	- Employee pay for PAYROLL period exceeds grant for CLAIM period - no check possible.	
	31		2,500.15	-						NA - Not Clair	NA - Not				NA



Pay Period Length
 Calendar Month Length
 Claim Period Length

28
31
17

Excel solution during national crisis

Model contains check errors - please review.

May Calculation model (version 8.3)

Claim Details

Company Name: ABC Limited *Mandatory*
 Company CRN: *Mandatory - if CT & SA UTR not provided*
 Employer reference: *Mandatory - if CRM & SA UTR not provided*
 CT UTR: *Mandatory - if CRM & SA UTR not provided*
 SA UTR: *Mandatory - if CRM & CT UTR not provided*
 Claim Period Code: 202,116 *Information*
 Claim Period Start Date: 01/05/21 *Mandatory*
 Claim Period End Date: 17/05/21 *Mandatory*
 Number of Employees being Furloughed: 4 *Mandatory*
 Total Claim Amount: 1,156.65 *Mandatory*
 Amount Claimed for Gross Pay to Employees on Furlough for the Period: 1,156.65 *Mandatory*
 Amount Claimed for Employer NICs Contributions for Furloughed Employees: - *Mandatory*
 Amount Claimed for Employer's Auto-Enrolment Pension Costs for Furloughed: - *Mandatory*

Bank Details

Bank Account Number: *Mandatory*
 Bank Sort Code: *Mandatory*
 Bank Account Holder's First Name: *Mandatory - if claim to be paid into personal bank account*
 Bank Account Holder's Last Name: *Mandatory - if claim to be paid into personal bank account*
 Bank Account Holder's Address: *Mandatory - if claim to be paid into personal bank account*
 Building Society Roll Number: *Optional*
 Company Address: *Mandatory - if claim to be paid into company bank account*

Contact Details

Contact Name: *Mandatory*
 Contact Number: *Mandatory*

Employee Details

Index	Mandatory Full Name	Mandatory NI Number	Optional Payroll Number	Optional Employee furlough Start Date	Optional Employee furlough End Date	Information Basic Claim During Furlough	Information Ers NI Claim	Information Pension Claim	Information Total Claim	Mandatory Normal Hours	Mandatory Actual Hours	Mandatory Furlough Hours	Mandatory Statutory Leave Returner?
37	1 Robert Baratheon	SS851469B	8	21/03/20	17/05/21	298.22	-	-	298.22	193.00	114.00	79.00	No
38	2 Linda Robinson	NS332622D	49	21/03/20	17/05/21	275.57	-	-	275.57	193.00	120.00	73.00	No
39	3 John Smith	SG754957B	400	21/03/20	17/05/21	291.43	-	-	291.43	240.00	168.00	72.00	No
40	4 Samit Patel	SZ339253B	626	21/03/20	17/05/21	291.43	-	-	291.43	240.00	168.00	72.00	No
41	5 -	-	-	-	-	-	-	-	-	-	-	-	-
42	6 -	-	-	-	-	-	-	-	-	-	-	-	-
43	7 -	-	-	-	-	-	-	-	-	-	-	-	-
44	8 -	-	-	-	-	-	-	-	-	-	-	-	-
45	9 -	-	-	-	-	-	-	-	-	-	-	-	-
46	10 -	-	-	-	-	-	-	-	-	-	-	-	-
47	11 -	-	-	-	-	-	-	-	-	-	-	-	-
48	12 -	-	-	-	-	-	-	-	-	-	-	-	-
49	13 -	-	-	-	-	-	-	-	-	-	-	-	-
50	14 -	-	-	-	-	-	-	-	-	-	-	-	-
51	15 -	-	-	-	-	-	-	-	-	-	-	-	-
52	16 -	-	-	-	-	-	-	-	-	-	-	-	-
53	17 -	-	-	-	-	-	-	-	-	-	-	-	-
54	18 -	-	-	-	-	-	-	-	-	-	-	-	-
55	19 -	-	-	-	-	-	-	-	-	-	-	-	-
56	20 -	-	-	-	-	-	-	-	-	-	-	-	-

Audit Trail Information

Audit Trail Information				Variable Employees - Group 1										Variable Employees - Group 2			
Group	Fixed vs Variable	Normal Hours	Furlough Hours	Pay for 2019/20	Days in 2019/20	Daily Reference Pay - 2019/20	Pay for same period Last year	Days in same period last year	Daily Reference Pay - Last	Days before furlough	Pay before furlough	Daily Reference Pay - YTD	Days before furlough	Pay before furlough	Daily Reference Pay - YTD		
Group 2	Variable	193	79	-	-	-	-	-	-	-	-	-	-	-	-		
Group 1	Variable	193	73	15,468	350	44.19	927	17	55	-	-	-	-	-	-		
Group 1	Fixed	240	72	-	-	-	-	-	-	-	-	-	-	-	-		
Group 2	Fixed	240	72	-	-	-	-	-	-	-	-	-	-	-	-		

1 - Payroll Data Input | 2 - Furlough Employee List | 3 - Claim Calc Sheet | 4 - Dashboard | 5 - Claim Output Info | 6 - HMRC Portal Upload | Lookups | Chart Calcs | Updates

Discovering Power Query

- Claire Adam, Chief Finance Officer at Saclà
- Discovered how to use Power Query to reformat exported data and present information in a workable format
- Cut various analysis time from days to a few hours



Automating and simplifying data collection



- Adrian Maconick, Director at Finsbury Solutions LTD
- The messy and error-prone securities data collection process was simplified with different templates for different security types
- Reduced costs by around £1m per annum and error rates to nearly zero



Spreadsheets vs traditional systems

Good for	Bad for
<ul style="list-style-type: none">• Low volume, high complexity	<ul style="list-style-type: none">• Very high volumes - a database may be better
<ul style="list-style-type: none">• Math-driven applications<ul style="list-style-type: none">– QA assay calculations– Clinical calculations– Accounting	<ul style="list-style-type: none">• Transactional systems
<ul style="list-style-type: none">• Non-programmers• Large numbers of spreadsheet users	<ul style="list-style-type: none">• Multi-user systems
<ul style="list-style-type: none">• Handling uncertain or rapidly changing requirements	<ul style="list-style-type: none">• Discipline and control
<ul style="list-style-type: none">• Speed of development	<ul style="list-style-type: none">• Most spreadsheet users are under trained

Using Excel to review Alteryx

- Ian Pay, Head of Data Analytics & Tech at ICAEW
- Designed solution using VBA to populate all of the key tools and formulas from Alteryx in a more digestible format
- Review time for Alteryx workflows was cut by several hours and quality increased





Questions?

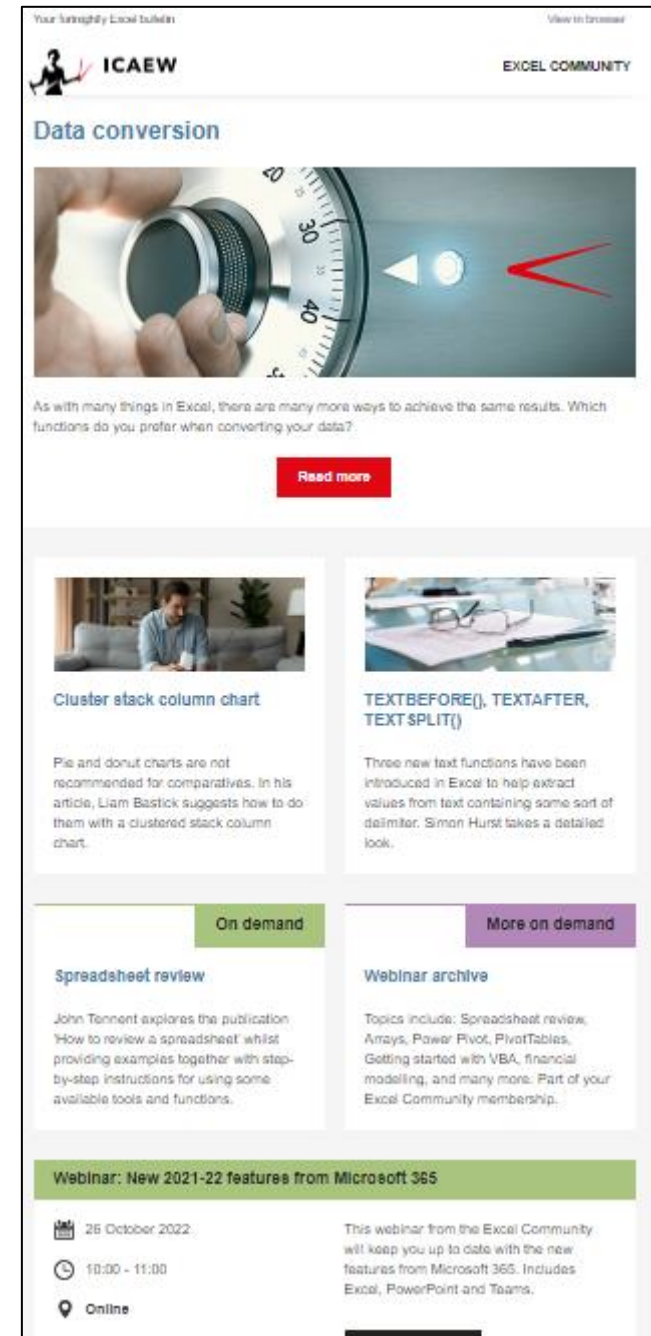
Excel Community

Benefits of membership:

- Regular bulletins
- Webinar programme
- Extensive archive of on-demand webinars
- Practical guidance and examples to help you in your role as a finance professional
- Corporate membership

New for 2023:

- Excel toolbar created exclusively for Excel Community members
- Assessment tool to be used in conjunction with the Spreadsheet competency framework



The screenshot displays the Excel Community website interface. At the top, there is a navigation bar with the ICAEW logo and the text 'EXCEL COMMUNITY'. Below this, a featured article titled 'Data conversion' is shown with a thumbnail image of a hand adjusting a dial. The article text asks, 'As with many things in Excel, there are many more ways to achieve the same results. Which functions do you prefer when converting your data?' and includes a red 'Read more' button. Below the article are two smaller resource cards: 'Cluster stack column chart' with a photo of a person working, and 'TEXTBEFORE(), TEXTAFTER(), TEXT SPLIT()' with a photo of a desk. At the bottom, there are two more cards: 'Spreadsheet review' (marked 'On demand') and 'Webinar archive' (marked 'More on demand'). A green banner at the bottom highlights a webinar: 'Webinar: New 2021-22 features from Microsoft 365', dated 26 October 2022, from 10:00 - 11:00, available online. The webinar description states it will cover new features from Microsoft 365, including Excel, PowerPoint, and Teams.

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08 Dec: Excel vs Google Sheets: Battle of the Spreadsheets

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