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Exercise 1a: Extract data from CUFS into Excel

- Log into CUFS with a GL responsibility
- Select Reports > Standard >single request
- In the name section select the **list of values** button
- Select Account Analysis

 Transaction Detail –
 Excel Version (UFS)

Submit Request				
Run uns Request				
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Name				6-
Operating Unit				C
Parameters				
Language				
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		Language	Settings	Debug Options
At these Times				
Run the Job	As Soon as Possible			Schedule
Upon Completion				
	Save all Output Files	Burst Output		
Layout				Options
Notify				
Print to				
11111110				

- Check that the report is not set to print by clicking on Options the printer copies, if listed, should be set to zero
- Click Submit
- Once the report has run (click refresh data if it doesn't show) select view output
- When prompted select Save as and save the file to the desktop with the filename: Exercise1_CUFS_your initials

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Language American English At these Times Run the Job As Soon as Run the	Low High
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	AAAA ZZZZ
Layout Account And	
Notify	Cancel Clear Help Cancel Clear Help
Print to AG_PR0051	

• Once the file has downloaded, select **Open** and **c**heck that there is some data in the file before closing it down.

The Exercise1_CUFS_HP.xls download has completed.	Open -	Open folder	View downloads ×

Exercise 1b: Extract data from Cognos into Excel

From the main UFS page, select **Cognos reporting**

Login with your Raven ID

D CAMBRI	୩୦୮ DGE og in with your Cognos User ID.
	HRP38
	<u></u>
[Log in
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Datamart name	Status	Last successful build t
AP Datamart I	DATAMART OK	27-JAN-22 06:27:16
AP Invoice Payments I	DATAMART OK	27-JAN-22 02:15:25
AP Invoices I	DATAMART OK	27-JAN-22 02:37:29
Fee Billing I	DATAMART OK	27-JAN-22 01:26:13
General Ledger	DATAMART OK	27-JAN-22 00:59:58
Grants Datamart	DATAMART OK	27-JAN-22 04:54:17
P2P 1	DATAMART OK	27-JAN-22 06:40:53
Sales Transactions	DATAMART OK	27-JAN-22 03:01:00
X5 (DATAMART OK	27-JAN-22 06:27:46

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IBM Cognos Analytics

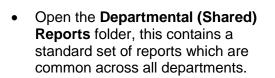
Hel

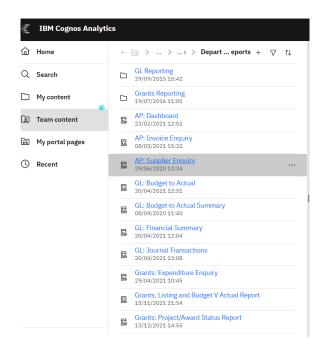
IBN

Ana

- Select Team Content from the left hand menu
- Select the Live folder

	Orants Summary (Actual vs Dudger) 07/01/2022 11:37
-	Grants Transactions (Combined) 10/01/2022 19:39
	LIVE 28/05/2021 15:54
	Templates 27/11/2017 19:41





Running a report

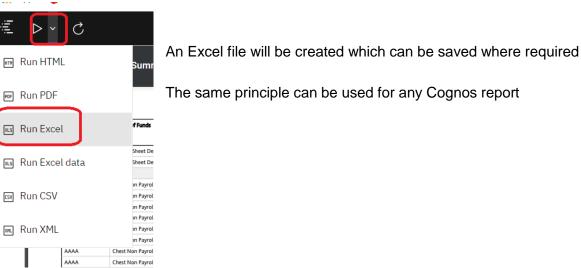
• Select the 3 dots to the right of the GL Financial Summary report, then choose Run As

ē	GL: Budget to Actual Summary 08/09/2020 11:40		II.
	GL: Financial Summary 20/04/2021 13:04		
ē	GL: Journal Transactions 20/04/2021 13:08		⊳ Run as
		S	
			🛱 View versions
		quiry	∝° Share
		get V Actual Report	

• Select **PDF** (this will enable changes to be made more easily after the report has run)

Run as				
Run in background				Summary
Prompt me				
You will be prompted for input	before the report runs.			Format
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Q, Find				Languages
				English (United Kingdom)
Format				
○ HTML	PDF	C Excel		
O Excel Data	◯ csv	◯ XML		
Accessibility				
Enable accessibility support			^	

- Enter the required parameters and select **Finish** to run the report
- Once the report has run it can be easily changed to Excel
- Select the drop down arrow in the top left of the screen and choose **Run Excel**



Exercise 2: Basic formatting

Open the file Exercise 2_data

Task 1 – Unfreeze panes

The data has been imported with some of the panes set to scroll

- Select the **view** tab in the ribbon
- Click the Freeze panes option
- Select unfreeze panes

Task 2 – Delete columns

Delete columns Entity, Dept and Spare

- Select the relevant columns by clicking on the letters at the top of the column (hint: holding the Ctrl key will enable you to select multiple columns)
- Select the **Home** tab in the ribbon
- Click Delete in the toolbar
- Delete columns Ref 4, 6 and 10 (try and do them in one go)

Task 3 – Resize columns

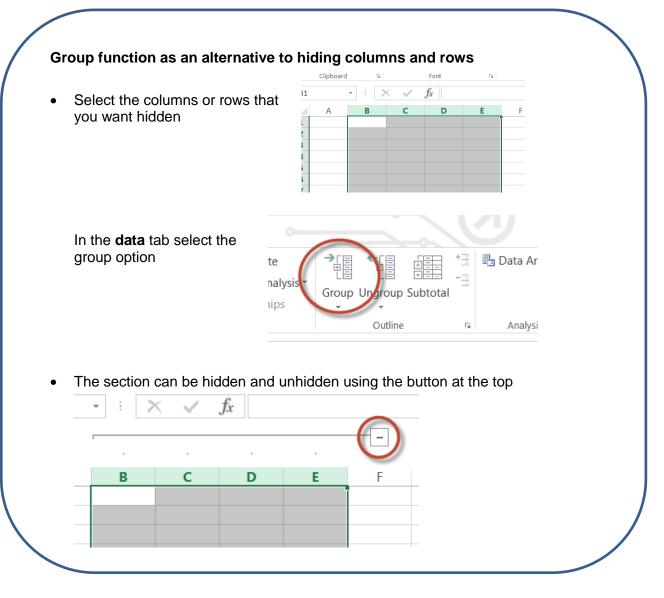
Column A is too narrow to show the complete date

- Hover the cursor between the A and B at the top of the column, a 4 way cross should appear
- Double click the mouse to auto adjust the column to the correct width
- Do the same for column F

Task 4 - Hide a column

The batch name column contains information which might be useful but doesn't need to be visible all the time

- Select the column
- Right click with the mouse
- Select hide



Task 5 – Freeze top row

It can be easier to navigate a spreadsheet when the top row with the headings is fixed

- Select the **view** tab in the ribbon
- Click the Freeze panes option
- Select freeze top row

Task 6 – Text wrapping

Sometimes the content of one cell is too wide for sensible width columns, the text wrapping function can be used to show the content on a wider row.

- Select the Description column
- Select the **home** tab in the ribbon
- Click the **Wrap text** option
- Manual resize the column by hovering between the two columns until the 4 way cross appears, click and drag to the desired width
- Do the same with columns Ref 1 and Ref 5

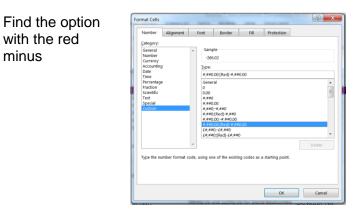
Task 7 - Changing the presentation of minus numbers

In accounting it is usual to present minus numbers with brackets rather than a minus sign. The amount column is currently showing them with a minus

- Select the whole of the Amount column
- Select the **home** tab in the ribbon
- Click the arrow in the bottom right hand corner of the **Number** section

rge & Center 🝷		
	* % * 5	Conditional F
F2	Number	S S

Select Number and then custom



• In the top box, put brackets round the second part and delete the minus sign

Sample
(266.02)
<u>T</u> ype:
#,##0.00;([Red]#,##0.00)
General
0
0.00

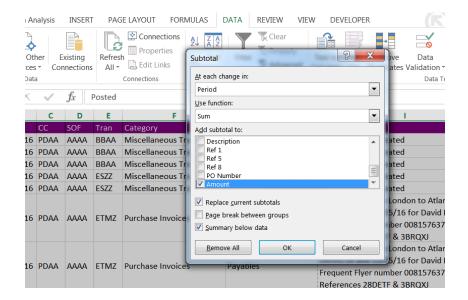
• Once you click ok, the minus numbers should have brackets

Task 8 – Subtotals

Large amounts of data can be more easily viewed with subtotals

- Select all the data (hint: use Ctrl, Shift, End)
- Select the **data** tab in the ribbon
- Click the Subtotal option
- If you get a message about a row being found above the data, click yes to include it
- The next screen allows you to set the specific requirements for the subtotal
- We will select subtotals by period showing the sum of transaction amounts for each period

Note: Use *At each change in:* **Period.** If this setting is left on Posted excel will take an extremely long time to calculate as it will add a new subtotal after almost every line.



Exercise 3: Basic formulas

Open the file Exercise 3_data

Task 1 – AutoSum

- Scroll to the bottom of the data in column I
- Select cell **I80** and click **AutoSum** in the toolbar
- It should select all of the data in the column
- Click enter and the total should appear

Task 2 – Multiplication

• In cell **J1** enter the formula **=I1*2**

Task 3 – Copying formulas

- In cell **J1** hover the mouse over the bottom right hand corner until a black + appears
- Double click with the mouse and the formula will be copied to every cell in the column

Task 4 – Division

- In cell **K1** enter the formula **=J1/2**
- The answer should be the same as in column I
- Copy this formula to the whole column using the steps in task 3

Task 5 – Recap

- Use the AutoSum function to total columns J and K
- Be careful when you get to column **K** that the correct range is selected

Exercise 4: Quick guide to excel shortcuts

Navigating a Spreadsheet					
Ctrl + End	Going to last cell containing data (the bottom right corner)				
Ctrl + Shift + End	Extends the selection of cells from the current point to the last used cell on the worksheet				
Ноте	Moves to the beginning of a row in a worksheet.				
Ctrl + Home	Returning to the top of your spreadsheet				
Ctrl + Shift + Home	Extends the selection of cells from the current point to the first used cell on the worksheet				
Shift + arrow keys	Selecting/highlighting a block of data				
Ctrl + F / Shift + F5	Displays the Find window				
Shift + F4	Repeats the last find action				
Ctrl + H	Find and replace window				
Ctrl + A	If the worksheet contains data, CTRL+A selects the current region. Pressing CTRL+A a second time selects the entire worksheet.				
Shift + Arrow Key	Extends the selection of cells by one cell.				
Ctrl + Spacebar	Selects an entire column in a worksheet.				
Shift + Spacebar	Selects an entire row in a worksheet.				
Ctrl + Shift + Spacebar	Selects an entire worksheet. Repeat function if the worksheet contains data				
Ctrl + Shift + Arrow	Selects row or column of data				
F5 or Ctrl + G	Go to (Allows you to go to a named section of the spreadsheet)				
Alt + ;	Narrow search to only include visible cells (unselecting hidden cells)				

Exercise 5: Consolidation (1)

Task 1

Delete columns R to AQ

Task 2

Adjust the width of columns E to P so that the data fits

Task 3

Use the Wrap Text function and adjust the column widths manually to make them more sensible

Task 4

Format all the number cells so that negative numbers show in red with brackets rather than the minus sign

Task 5

Sort the data by source of funds

Hint: use the **Custom Sort** function

Task 6

Hide all the number columns apart from column H

Task 7

Insert subtotals to show total expenditure for each source of funds

Exercise 6: Advanced formulas

Task 1 - Formatting

- Format column T to show the numbers with the comma separator to 2dp
- Format column T to show minus numbers in brackets (the text should be black)

Task 2 – AVERAGE

- In cell T422 enter the formula =AVERAGE(cell references for the column) Hint: use the shortcuts from Exercise 4 to select the cells
- Format this cell to Calibri font size 14 in bold

Task 3 – ABSOLUTE cell reference

~	Font	alignment	G Number	Forma	atting * Table * Styles	Styles -	Cells	× ×
Е	G	Н	Ι	S	Т	U	V	W
							VAT	20%
OF	Tran	Description	Category	PO Number	Amount	VAT		
/ ABB	EZZC	Research Grants: Other Costs	Miscellaneous Transaction		31.66	* \$W\$1		
ЛАСВ	EZZC	Research Grants: Other Costs	Miscellaneous Transaction		2,029.70			

- In cell V1 type VAT, in W1 enter the rate of 20%
- Format both these cells with a yellow background
- In cell U2 enter the heading VAT
- In cell **U3** enter a formula to multiply the amount by the VAT rate (use the cell reference rather than typing the rate)
- Before copying this formula to the rest of the cells you need to make the VAT rate cell absolute (this means that the cell reference won't change when the formula is copied)
- Select the cell and in the formula bar add a \$ before and after the letter part of the reference
- Copy the formula to rest of the column, in each cell the formula should multiply by W1
- Format the column to show the minus numbers in brackets and all the figures to 2dp

Task 4 – ROUND

- VAT is rounded down and so the formula can be adjusted to account for this automatically
- Use the formula in cell U3 as the starting point and then copy it to the whole column
- Б Font Alianment Select the cell and in the formula bar adjust =ROUNDDOWN((T3* \$W\$1),2) × \checkmark the formula to: G F C Description SOF Tran Category
- This formula tells Excel that the answer to the calculation should be rounded down and shown to 2 decimal places
- Copy this formula to the rest of the column

Task 5 – Adding

- In cell V2 enter the title Total
- Use a formula to add the net amount and VAT together for each row
- Format the numbers as before

Task 6 – IF function

- The **IF** function can output text or perform a calculation based on certain conditions being met
 - The IF function is split into 3 parts:
 - The condition that must be met
 - o What to show or do if the condition is met
 - What to show or do if the condition is not met
- In cell **W3** enter the following formula:

=IF(V3>1000,"High"," ")

- If the total exceeds £1,000
- Display the text High
- If it is below £1,000 display an empty cell
- Copy the formula to the rest of the column and check that it works as expected

Task 7 – Test

• Change the VAT rate to 50% and check that the results all adjust accordingly

Exercise 7: Advanced formatting

Open Exercise 7_CUFS data

Task 1 – Conditional formatting

- Select the data in columns T, U and V
- Highlight the cells showing 0
- Select the Conditional Formatting option in the Home tab
- Select the Highlight Cell Rules option and then choose Equal To
- When prompted, enter 0 and choose the format that you want

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Adjustment	Color Scales	Equal To	
Adjustment			
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Adjustment	(0.58) (0.1		
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Adjustment	(302.52) (60.5	50) (363.02)	
Adjustment	(3.31) (0.6	56) (3.97)	

Task 2 – Data validation

- Data validation enables restrictions to be placed on the content of a range of cells (this could be numeric or written)
- In column **Z** type the following list of categories:
 - Adjustment
 - o Transfer
 - o Purchase invoices
 - Depr.
 - o Misc.
 - o Burden cost
 - o Sales invoices
 - o Revenue

Z	AA
Adjustment	
Transfer	
Purchase in	voices
Depr.	
Misc.	
Burden cost	t
Sales invoic	es
Revenue	

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ent &								1.95
ent &								
ent &	Apply th	nese changes to	all other o	ells with the sa	me settings			1.70
ent &								30
	<u>C</u> lear All				01	<	Cance	
ent & Se	n i e e e	Transfer		_	_	_	(75.00)	.45
CIIL & SE	ervices	rianster					(75.00)	(15.00)

- Select all the data in column I
- Select Data Validation in the Data tab
- Select the **list option** and choose the range of the list as the source

• A dropdown box will appear on each cell in the range from which the cell content can be chosen

• Select the column range again and choose **circle invalid data** from the data validation tab

- Work through each of the errors identified to ensure that the correct option is chosen
- Run the invalid data check again to ensure that they are all corrected
- Hide column **Z** to tidy up the spreadsheet
- Try and enter a different word in any of the cells in column I to check the validation works

Task 3 – Sorting and subtotals (recap)

- Sort the data by transaction code and then posted date
- Subtotal by transaction code and total amount
- Delete any sections where the transactions cancel out

· · ·									100.01
7	07-FEB-2017	PDGF	GBAA	EAEZ	Photographic Equipment & Services	Transfer	7.50	1.50	9.00
8	07-FEB-2017	PDGF	GBAA	EAEZ	Photographic Equipment & Services	Transfer	24.75	4.95	29.70
9	07-FEB-2017	PDGP	GBAA	EAEZ	Photographic Equipment & Services	Transfer	23.50	4.70	28.20
10	07-FEB-2017	PDGR	GBAA	EAEZ	Photographic Equipment & Services	Transfer	6.50	1.30	7.80
11	07-FEB-2017	PDGU	GBAB	EAEZ	Photographic Equipment & Services	Transfer	10.50	2.10	12.60
12	07-FEB-2017	PDIB	AAAA	EAEZ	Photographic Equipment & Services	Transfer	2.25	0.45	2.70
13	07-FEB-2017	PDSB	GAAB	EAEZ	Photographic Equipment & Services	Transfer	(75.00)	(15.00)	(90.00)
14				EAEZ T	otal				0.00

Exercise 8: Consolidation (2)

Task 1 – Formatting and presentation

- Adjust the column widths so that the data shows in a sensible way
- Use the wrap text function to reduce the width of very wide columns
- Show the amounts with the comma separator, to 2dp and showing minus numbers in brackets
- Format the date columns as **Date** and ensure that it is just the date that is displayed
- Format the headings as **bold** and font **size10**
- Hide columns J, K and L
- Delete transaction date column

Task 2 – Page headings

 Put the Project Organisation, Award Number and Project Short Code as a title on the page

•	Select the page layout		15/06/2013	15/06,
	view from the bottom of	TS - CHEST	16/06/2013	16/06,
	the screen	TS - DEPT	17/06/2013	17/06,
				-
		•Return back to	ant information in the hea the normal view	der

- Delete the first 3 columns as the information is now in the page header
- Delete the new column J

Task 3 – Data sorting

- Sort all the data by Expenditure Category, Expenditure Type and then Date
- Insert subtotals in the data at each change in **Expenditure Type**, showing **Total Expenditure**

Task 4 – IF function

• Enter a formula in column **J** which enters "**Outflow**" if the amount is positive and "**Inflow**" if it is negative

Task 5 – Conditional formatting

- Use conditional formatting in column **J** to show the outflow cells shaded red and the inflow shaded green
- Use conditional formatting in column I to show the highest 2 figures shaded yellow (NB: don't include the Grand Total)

Task 6 – Data validation

• In column K use a data validation list to allow a choice of:	Properties 2↓ ▲2 ▲ B B ▲ B B ▲ B
 Chest 	Settings Input Message Error Alert
 Dept 	Validation criteria
 Other 	Allow:
 Payroll 	List 🗸 Ignore <u>b</u> lank
NB you can either	Data:
enter these in the box	AT between -
(see below) or link to a	AT Source:
list on the spreadsheet	IR Chest, Dept, Other, Payroll
as in Exercise 7	RA
	RA
	IER JER Apply these changes to all other cells with the same settings
Enter the most	Apply these changes to all other cells with the same settings
appropriate description	PEI Clear All OK Cancel
for each row	
	IVERSITY FUNDED - DEPT Total

Task 7 – Printing

- Enter the print preview screen by clicking File, Print or Ctrl P
- Set the printing to landscape and ensure that it fits to 1 page
- Use the arrow in the top left corner to return to the main screen

