How do I analyse how my Raw marks have been changed?

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Why would I want to do this analysis?

The internally assessed components are assessed by you in terms of raw marks and these are what you submit to the process of moderation. The final raw marks are converted to UMS (uniform mark scale) and these marks are what appear on our reports.

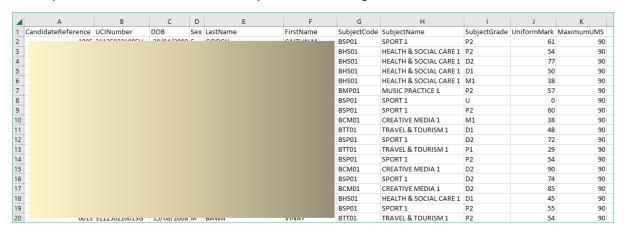
If your raw marks are accepted at moderation then this analysis will not be needed, as your raw marks and the final raw marks will be the same. If, however your centre marks were modified, then you will not see in our reports the modified raw marks only the resulting UMS marks. Or as it appears in the Broadsheet CSV "UniformMark". If you want to analyse the differences between your submitted centre marks and the final raw mark outcome then this will be a helpful analysis.

Start by accessing the Broadsheet CSV Report

This will be found in your Edexcel Online (EOL) inbox – or you can request this from your Exams Officer.



When you download the Broadsheet csv you see something like this:



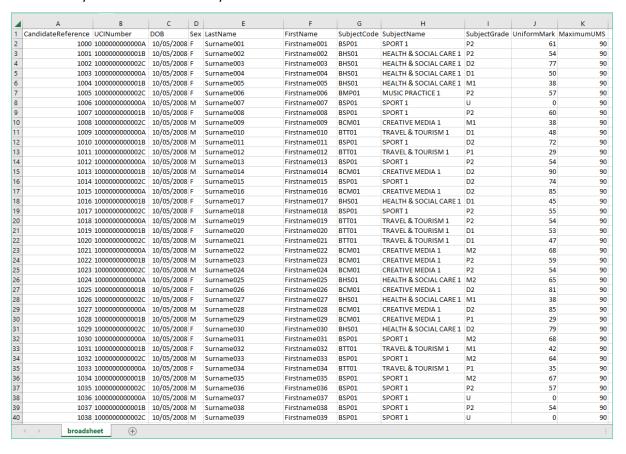
The *.csv file is formatted in this way and it has student data in the first 6 columns followed by component information, grade and then Uniform mark per student.

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Save As spreadsheet format

At this stage it is a good idea to 'Save As' and save this results file as a spreadsheet (select Excel Workbook(*.xlsx)), this way we can add sheets for the analysis. CSV files do not have multiple sheets.

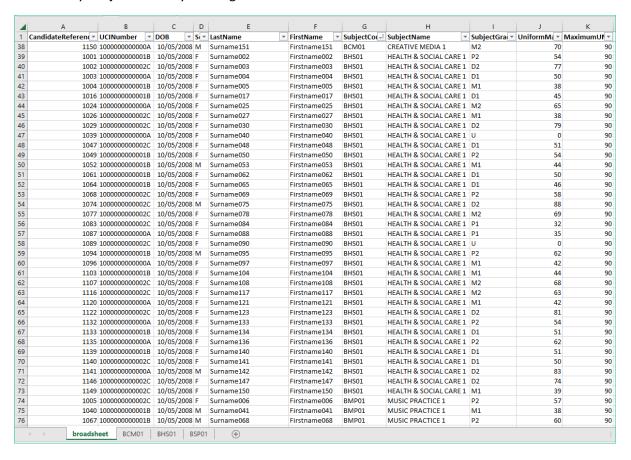
I have anonymised the data crudely as shown below:



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Bold and freeze top row, set filter

Now Bold and freeze the top row, and click in the data and select Data -> Filter add some sheets for the components involved, I can see Sport 1, Health and Social Care 1, Creative media 1 etc. Now you can sort by Subject Code – you will get a workbook that looks like this:



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Get the component/series Raw to UMS lookup tables

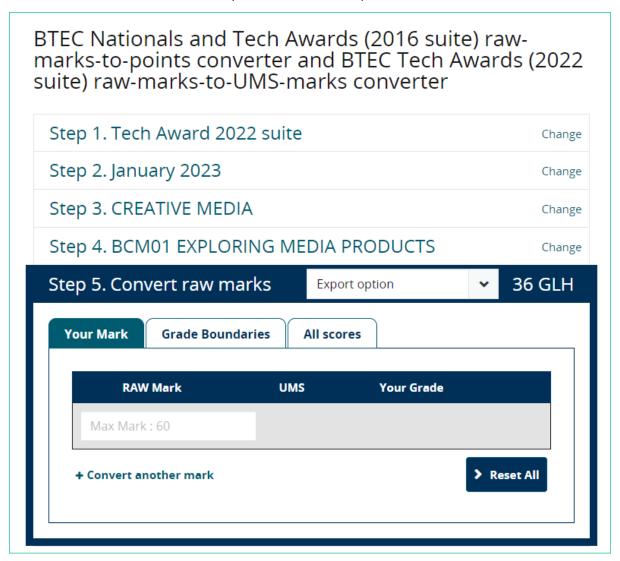
Go to the web site here for Step 1 select "Tech Award 2022 suite"

Step 2 select series

Step 3 select subject

Step 4 select component

I used Jan 2023, Creative media, Component 1 in this example:



Note the Export option dropdown – use this to select Download CSV.

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Look at downloaded CSV Raw to UMS lookup file

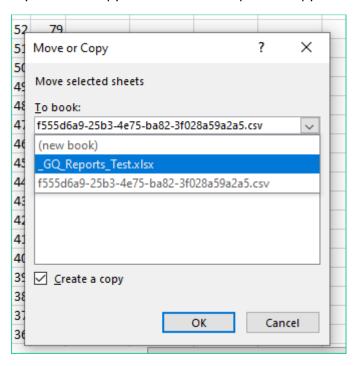
This downloads a CSV file that you can open and it will look like this:

	A	В	С	D			
1	Grade Boundaries	U	-				
	Grade Boundaries						
3	GRADE	RAW Mark	LINAC				
4							
	Max Mark	60	90				
5	L2D	48	72				
6	L2M	38	63				
7	L2P	28	54				
8	L1D	23	45				
9	L1M	19	36				
10	L1P	15	27				
11	U	0	0				
12							
13	All Scores						
14							
15	GRADE	RAW Mark	UMS				
16	L2D	60	90				
17	L2D	59	90				
18	L2D	58	90				
19	L2D	57	88				
20	L2D	56	86				
21	L2D	55	85				
22	L2D	54	83				
23	L2D	53	81				
24	L2D	52	79				
25	L2D	51	77				
26	L2D	50	76				
27	L2D	49	74				
28	L2D	48	72				
29	L2M	47	71				
30	L2M	46	70				
31	L2M	45	69				
32	L2M	44	68				
33	L2M	43	68				
34	L2M	42	67				
35	L2M	41	66				
36	L2M	40	65				
37	L2M	39	64				
38	L2M	38	63				
39	L2P	37	62				
40	L2P	36	61				
				.02 26020-	_		
f555d6a9-25b3-4e75-ba82-3f028a5							

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Make a copy of this sheet and put it into the broadsheet file

I suggest that you right click on the tab at the bottom and select Move or Copy.. -> tick the box that says Create a copy and then in the drop down copy to the spreadsheet you opened previously:



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The broadsheet workbook will now look like this

	А	В	С	D	E	F	G	н	1 i
1	Grade Boundaries				_			- ''	'
2	Grade Bodridaries								
3	GRADE	RAW Mark	LIMS						
4	Max Mark	60	90						
5	L2D	48							
6	L2M	38							
7	L2P	28	54						
8	L1D	23							
9	L1M	19	36						
	L1P	15	27						
	U	0	0						
	U	U	U						
12	All Coores								
	All Scores								
14	CDADE	DAMA Adamla	LINAC						
	GRADE	RAW Mark							
	L2D	60	90						
	L2D	59							
	L2D	58							
	L2D	57	88						
	L2D	56	86						
	L2D	55	85						
	L2D	54							
	L2D	53	81						
	L2D	52	79						
	L2D	51	77						
	L2D	50	76						
	L2D	49	74						
	L2D	48	72						
	L2M	47							
	L2M	46	70						
	L2M	45							
	L2M	44	68						
	L2M	43	68						
	L2M	42							
	L2M	41							
	L2M	40	65						
	L2M	39							
	L2M	38							
	L2P	37							
40	L2P	36	61						
	√ → broa	dsheet f	555d6a	a9-25b3-4	e75-ba82-3	3f028a5	BCM01	BHS01	BSP01

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Name the new sheets to the corresponding component code name

The newly inserted tab should be renamed BCM01 in this example

Now the workbook looks like this:

	А	В	С	D	Е	F
1	Grade Boundaries					
2						
3	GRADE	RAW Mark	UMS			
4	Max Mark	60	90			
5	L2D	48	72			
6	L2M	38	63			
7	L2P	28	54			
8	L1D	23	45			
9	L1M	19	36			
10	L1P	15	27			
11	U	0	0			
12						
13	All Scores					
14						
15	GRADE	RAW Mark	UMS			
16	L2D	60	90			
17	L2D	59	90			
18	L2D	58	90			
19	L2D	57	88			
20	L2D	56	86			
21	L2D	55	85			
22	L2D	54	83			
23	L2D	53	81			
24	L2D	52	79			
25	L2D	51	77			
26	L2D	50	76			
27	L2D	49	74			
28	L2D	48	72			
29	L2M	47	71			
30	L2M	46	70			
31	L2M	45	69			
32	L2M	44	68			
33	L2M	43	68			
34	L2M	42	67			
35	L2M	41	66			
36	L2M	40	65			
37	L2M	39	64			
38	L2M	38	63			
39	L2P	37	62			
40	L2P	36	61			
	√ → broa	dsheet	SCM01	BHS01	BSP01	

And the same process should be repeated for all the components that you want to analyse.

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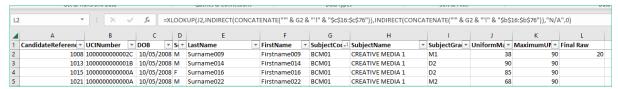
Create column and insert formula to the broadsheet data

Now in the broadsheet you will add a column to the right (column L) titled 'Final Raw'.

In this column we will use the XLOOKUP function to get the Final Raw mark from the UniformMark found in column 'J' it looks a bit complicated, but here it is as it should be pasted into cell 'L2':

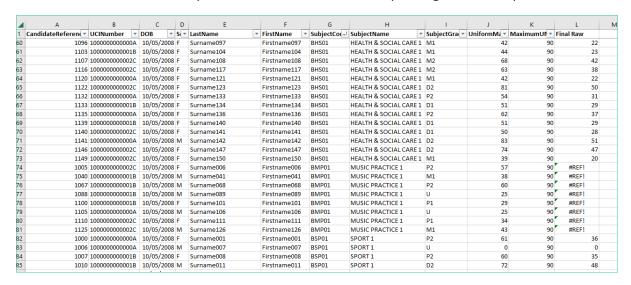
=XLOOKUP(J2,INDIRECT(CONCATENATE("" & G2 & "'!" & "\$b\$16:\$b\$76")),"N/A",0)

This is what the sheet will look like when cell 'L2' has had this formula pasted in:



The formula can be dragged down (copied down) now.

You will see errors when a component does not have the corresponding sheet lookup see here:



This can be solved by adding a sheet with the raw to UMS lookup table and naming it as the component code in this example it would be 'BMP01' the Music Practise component 1.

Now you have the Final raw marks for each component for each student and these can be compared with the Raw marks that you submitted into EOL in order to see in Raw mark terms how much the marks were changed for each student.

Once you have the final raw marks these can be compared to your own submitted raw marks to see on a line by line basis what changes were made in regression.

You can extract the data on a student by student or a component-by-component basis and it might be a good idea to copy the whole of column 'L' and paste special to values so that the formula is not needed if you decide to extract the numbers into various other sheets for analysis.

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