

Multivalued Error Explained

The #MULTIVALUED error occurs when the relationship between an attribute and its parent data element are broken in a report.

For example: 'SOC Code' is an attribute of 'Position', if the data element 'SOC Code' is added without also adding the data element 'Position', the relationship between the two is not defined in the report and the measures don't have enough information to know how to recalculate.

In the example below notice the 'SOC Code' has been added to a report where the 'Position' was not present. After adding the new attribute the #REFRESH error is displayed in the new column.

The screenshot shows a SAP Crystal Reports interface. The report title is "B0165-1: Job Attributes w/o OrgUnit". The report table has the following columns: Position - SOC Code (Text), Job, Job Desc, Job Pay Type, Job Pay Area, Job Pay Group, Cal Mth/Yr, Number of Positions, and Job Min Pay Le. The data rows are as follows:

Position - SOC Code (Text)	Job	Job Desc	Job Pay Type	Job Pay Area	Job Pay Group	Cal Mth/Yr	Number of Positions	Job Min Pay Le
#REFRESH	30000314	Accounting Clerk II	Graded	Annual Salaries	GR54	01/2015	10	24
#REFRESH	30000315	Accounting Clerk III	Graded	Annual Salaries	GR57	01/2015	12	25
#REFRESH	30000318	Accounting Clerk IV	Graded	Annual Salaries	GR59	01/2015	95	23
#REFRESH	30000319	Accounting Clerk V	Graded	Annual Salaries	GR61	01/2015	81	22
#REFRESH	30000325	Accounting Clerk Supervisor V	Graded	Annual Salaries	GR61	01/2015	1	24
#REFRESH	30005459	Accountant	Flat Rate	Flat Rate	FLATRATE	01/2015	1	20
#REFRESH	30012947	Accountant	Graded	Judicial	JB18	01/2015	1	24
#REFRESH	31000025	Accountant	Banded	Career Banding	31000025	01/2015	318	37

Annotations in the screenshot include a lightbulb icon with the text "The data element 'Position' is not on the report" and "SOC Code' is an attribute of 'Position'". The Available Objects pane on the left shows "Position - SOC Code (Text)" selected.

After refreshing the report notice many of the rows display a #MULTIVALUED error message.

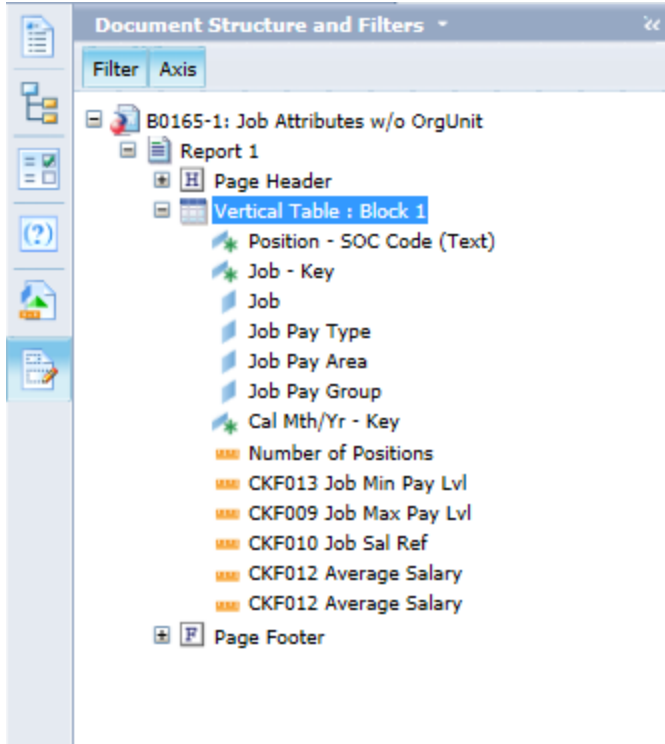
fx x Average Salary

[Job Attributes w/o OrgUnit](#)

Job Pay Type	Job Pay Area	Job Pay Group	Cal Mth/Yr	Number of Positions	Job Min Salary	Job Max Salary	Job Sal Ref	Average Salary
Flat Rate	Flat Rate	FLATRATE	01/2015		20,000	50,000	0	47,830.67
Graded	Judicial	JB18	01/2015	1	41,055	87,875	52,965	53,637
Banded	Career Banding	31000025	01/2015	#MULTIVALUE	#MULTIVALUE	#MULTIVALUE	#MULTIVALUE	#MULTIVALUE
Graded	Annual Salaries	GR57	01/2015	#MULTIVALUE	#MULTIVALUE	#MULTIVALUE	#MULTIVALUE	#MULTIVALUE
Graded	Annual Salaries	GR59	01/2015	#MULTIVALUE	#MULTIVALUE	#MULTIVALUE	#MULTIVALUE	#MULTIVALUE
Graded	Annual Salaries	GR61	01/2015	#MULTIVALUE	#MULTIVALUE	#MULTIVALUE	#MULTIVALUE	#MULTIVALUE
Graded	Annual Salaries	GR54	01/2015	#MULTIVALUE	#MULTIVALUE	#MULTIVALUE	#MULTIVALUE	#MULTIVALUE
Graded	Annual Salaries	GR61	01/2015	1	28,875	43,422	36,148	43,200

The #MULTIVALUE error is letting you know that there are multiple values within that measure but you have not provided enough detail in the rows to split the values correctly. This does not occur on all rows because in some cases there is no additional detail needed. If you look closely at the screen shot above, you will notice that the 'Number of Positions' column in some rows is 1. This would have been true even before the last refresh was executed. In other words there is no more detail for those measures no matter how many additional data elements you add to the report.

The easiest way to determine what data element needs to be added to generate the right level of detail is to evaluate the Document Structure and Filters tab and see what the attribute you just added was related to. In this case we see the SOC Code was an attribute of Position because of the way it is listed **Position – SOC Code (Text)**.



If we add data element 'Position' our #MULTIVALUE error will go away.

The data element 'Position' is required to be able to access any of its attributes

Now the measures are displaying correctly

Position - SOC Code (Text)	Position	Job	Job Desc	Job Pay Type	Job Pay Area	Job Pay Group	Cal Mth/Yr	Number of Positions	Job Min Pay Level	Job Max Pay Level	Job Sal Ref	As S
ACCOUNTANTS AND AUDITC	Accountant	30005459	Accountant	Flat Rate	Flat Rate	FLATRATE	01/2015	1	20,000	350,000	0	
ACCOUNTANTS AND AUDITC	Accountant	30012947	Accountant	Graded	Judicial	JB18	01/2015	1	41,055	64,875	52,965	
ACCOUNTANTS AND AUDITC	Accountant	31000025	Accountant	Banded	Career Banding	31000025	01/2015	1	37,012	96,811	59,342	
ACCOUNTANTS AND AUDITC	Accountant	31000025	Accountant	Banded	Career Banding	31000025	01/2015	1	37,012	96,811	59,342	
ACCOUNTANTS AND AUDITC	Accountant	31000025	Accountant	Banded	Career Banding	31000025	01/2015	1	37,012	96,811	59,342	
ACCOUNTANTS AND AUDITC	Accountant	31000025	Accountant	Banded	Career Banding	31000025	01/2015	1	37,012	96,811	59,342	