What is a Cross Table?

A cross table is a two-way table consisting of columns and rows. It is also known as a pivot table or a multi-dimensional table. Its greatest strength is its ability to structure, summarize and display large amounts of data. Cross tables can also be used to determine whether there is a relation between the row variable and the column variable or not.

Optionally, the cross table can display grand totals for columns, rows, or for the whole measure. It can also display subtotals for columns,

Note: The aggregated value for subtotals and grand totals is not calculated on the values shown in the cross table, but on the underlying row values. This means that if you hide rows on the Sorting page or if you are using Show/Hide Items rules, then the grand totals or sub totals will be the sum of all values and not the sums of the visible values.

Example:

Below is a cross table showing sales figures for different types of fruits and vegetables.

Category	Type	2001	2002	2003	Grand total
Fruit	Apples	150	153	162	465
	Bananas	332	336	344	1012
	Pears	267	266	279	812
	Subtotal	749	755	785	2289
Vegetables	Cucumber	140	141	152	433
	Lettuce	246	245	258	749
	Tomatoes	156	161	168	485
	Subtotal	542	547	578	1667
Grand total		1291	1302	1363	3956

The same data displayed in a regular table takes up far more space and it is much more difficult to get an overview:

Year	Month	Category	Type	Sales	Cost
2001	January	Fruit	Apples	12	10
2001	January	Fruit	Pears	21	13
2001	January	Fruit	Bananas	29	26
2001	January	Vegetables	Cucumber	9	6
2001	January	Vegetables	Tomatoes	13	11
2001	January	Vegetables	Lettuce	22	20
2001	February	Fruit	Apples	11	9
2001	February	Fruit	Pears	21	14
2001	February	Fruit	Bananas	31	27
2001	February	Vegetables	Cucumber	8	6
2001	February	Vegetables	Tomatoes	12	10
2001	February	Vegetables	Lettuce	20	19
2001	March	Fruit	Apples	9	10
2001	March	Fruit	Pears	19	13
2001	March	Fruit	Bananas	32	27
2001	March	Vegetables	Cucumber	8	6
2001	March	Vegetables	Tomatoes	11	11
2001	March	Vegetables	Lettuce	21	19
2001	April	Fruit	Apples	9	10
2001	April	Fruit	Pears	18	13
2001	April	Fruit	Bananas	32	27
2001	April	Vegetables	Cucumber	10	7
2001	April	Vegetables	Tomatoes	12	11
2001	April	Vegetables	Lettuce	21	19
2001	May	Fruit	Apples	10	9
2001	May	Fruit	Pears	20	13
2001	May	Fruit	Bananas	31	27
2001	May	Vegetables	Cucumber	11	7
2001	May	Vegetables	Tomatoes	13	11
2001	May	Vegetables	Lettuce	21	19
2001	June	Fruit	Apples	9	9
2001	June	Fruit	Pears	18	14
2001	June	Fruit	Bananas	28	26

All visualizations can be set up to show data limited by one or more markings in other visualizations only (details visualizations). Cross tables can also be limited by one or more filterings. Another alternative is to set up a cross table without any filtering at all. See Limiting What is Shown in Visualizations for more information.

See also:

How to Use the Cross Table

Cross Table Properties