

table — Flexible table of summary statistics

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Description

`table` calculates and displays tables of statistics.

Quick start

Table of number of nonmissing observations in each category of `catvar1` by `catvar2`
`table catvar1 catvar2`

Add supercolumns defined by `catvar3` and superrows defined by `catvar4`
`table catvar1 catvar2 catvar3, by(catvar4)`

Table of mean and SD of `v1` for each combination of `catvar1` and `catvar2`
`table catvar1 catvar2, contents(mean v1 sd v1)`

Add total row showing mean and SD of `v1` for each value of `catvar2`
`table catvar1 catvar2, contents(mean v1 sd v1) row`

Add total column showing mean and SD of `v1` for each value of `catvar1`
`table catvar1 catvar2, contents(mean v1 sd v1) by(catvar3) row col`

25th, 50th, and 75th percentiles of `v1` for each level of `catvar1` displayed using the `%7.1fc` format
`table catvar1, contents(p25 v1 p50 v1 p75 v1) format(%7.1fc)`

Means of `v1`, `v2`, and `v3` for each level of `catvar2` centered in columns of width 10
`table catvar2, contents(mean v1 mean v2 mean v3) cellwidth(10) center`

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Syntax

```
table rowvar [ colvar [ supercolvar ] ] [ if ] [ in ] [ weight ] [ , options ]
```

| <i>options</i> | Description |
|----------------------------------|---|
| Main | |
| <u>contents</u> (<i>clist</i>) | contents of table cells; select up to five statistics; default is <code>contents(freq)</code> |
| by(<i>superrowvarlist</i>) | superrow variables |
| Options | |
| <u>cellwidth</u> (#) | cell width |
| <u>csepcwidth</u> (#) | column-separation width |
| <u>stubwidth</u> (#) | stub width |
| <u>scsepcwidth</u> (#) | supercolumn-separation width |
| <u>center</u> | center-align table cells; default is right-align |
| <u>left</u> | left-align table cells; default is right-align |
| <u>cw</u> | perform casewise deletion |
| <u>row</u> | add row totals |
| <u>column</u> | add column totals |
| <u>scolumn</u> | add supercolumn totals |
| <u>concise</u> | suppress rows with all missing entries |
| <u>missing</u> | show missing statistics with period |
| <u>replace</u> | replace current data with table statistics |
| <u>name</u> (<i>string</i>) | name new variables with prefix <i>string</i> |
| <u>format</u> (<i>%fmt</i>) | display format for numbers in cells; default is <code>format(%9.0g)</code> |

by is allowed; see [D] [by](#).

fweights, iweights, and pweights are allowed; see [U] [11.1.6 weight](#). pweights may not be used with `sd`, `semean`, `sebinomial`, or `sepoisson`. iweights may not be used with `semean`, `sebinomial`, or `sepoisson`.

where the elements of *clist* may be

| | | | |
|---------------------------------|--|-----------------------------|--------------------------|
| <code>freq</code> | frequency | <code>n varname</code> | same as count |
| <code>mean varname</code> | mean of <i>varname</i> | <code>max varname</code> | maximum |
| <code>sd varname</code> | standard deviation | <code>min varname</code> | minimum |
| <code>semean varname</code> | standard error of the mean (sd/\sqrt{n}) | <code>median varname</code> | median |
| <code>sebinomial varname</code> | standard error of the mean, binomial distribution ($\sqrt{p(1-p)/n}$) | <code>p1 varname</code> | 1st percentile |
| <code>sepoisson varname</code> | standard error of the mean, Poisson distribution ($\sqrt{\text{mean}}$) | <code>p2 varname</code> | 2nd percentile |
| <code>sum varname</code> | sum | ... | 3rd–49th percentiles |
| <code>rawsum varname</code> | sums ignoring optionally specified weight | <code>p50 varname</code> | 50th percentile (median) |
| <code>count varname</code> | count of nonmissing observations | ... | 51st–97th percentiles |
| | | <code>p98 varname</code> | 98th percentile |
| | | <code>p99 varname</code> | 99th percentile |
| | | <code>iqr varname</code> | interquartile range |

Rows, columns, supercolumns, and superrows are thus defined as

| | | | | |
|-------|---|---|------------|------------|
| | | | supercol 1 | supercol 2 |
| | | | col 1 | col 2 |
| row 1 | . | . | . | . |
| row 2 | . | . | . | . |

| | | | | |
|-------|-------|-------|--|--|
| | col 1 | col 2 | | |
| row 1 | . | . | | |
| row 2 | . | . | | |

| | | | |
|-------------|---|------------|------------|
| | | supercol 1 | supercol 2 |
| | | col 1 | col 2 |
| superrow 1: | | | |
| row 1 | . | . | . |
| row 2 | . | . | . |
| superrow 2: | | | |
| row 1 | . | . | . |
| row 2 | . | . | . |

Options

Main

`contents(clist)` specifies the contents of the table's cells; if not specified, `contents(freq)` is used by default. `contents(freq)` produces a table of frequencies. `contents(mean mpg)` produces a table of the means of variable `mpg`. `contents(freq mean mpg sd mpg)` produces a table of frequencies together with the mean and standard deviation of variable `mpg`. Up to five statistics may be specified.

`by(superrowvarlist)` specifies that numeric or string variables be treated as superrows. Up to four variables may be specified in *superrowvarlist*. The `by()` option may be specified with the `by` prefix.

Options

`cellwidth(#)` specifies the width of the cell in units of digit widths; 10 means the space occupied by 10 digits, which is 0123456789. The default `cellwidth()` is not a fixed number, but a number chosen by `table` to spread the table out while presenting a reasonable number of columns across the page.

`csepxwidth(#)` specifies the separation between columns in units of digit widths. The default is not a fixed number, but a number chosen by `table` according to what it thinks looks best.

`stubwidth(#)` specifies the width, in units of digit widths, to be allocated to the left stub of the table. The default is not a fixed number, but a number chosen by `table` according to what it thinks looks best.

`scsepxwidth(#)` specifies the separation between supercolumns in units of digit widths. The default is not a fixed number, but a number chosen by `table` to present the results best.

`center` specifies that results be centered in the table's cells. The default is to right-align results. For centering to work well, you typically need to specify a display format as well. `center format(%9.2f)` is popular.

`left` specifies that column labels be left-aligned. The default is to right-align column labels to distinguish them from supercolumn labels, which are left-aligned.

`cw` specifies casewise deletion. If `cw` is not specified, all observations possible are used to calculate each of the specified statistics. `cw` is relevant only when you request a table containing statistics on multiple variables. For instance, `contents(mean mpg mean weight)` would produce a table reporting the means of variables `mpg` and `weight`. Consider an observation in which `mpg` is known but `weight` is missing. By default, that observation will be used in the calculation of the mean of `mpg`. If you specify `cw`, the observation will be excluded in the calculation of the means of both `mpg` and `weight`.

`row` specifies that a row be added to the table reflecting the total across the rows.

`column` specifies that a column be added to the table reflecting the total across columns.

`scolumn` specifies that a supercolumn be added to the table reflecting the total across supercolumns.

`concise` specifies that rows with all missing entries not be displayed.

`missing` specifies that missing statistics be shown in the table as periods (Stata's missing-value indicator). The default is that missing entries be left blank.

`replace` specifies that the data in memory be replaced with data containing 1 observation per cell (row, column, supercolumn, and superrow) and with variables containing the statistics designated in `contents()`.

This option is rarely specified. If you do not specify this option, the data in memory remain unchanged.

If you do specify this option, the first statistic will be named `table1`, the second `table2`, and so on. For instance, if `contents(mean mpg sd mpg)` was specified, the means of `mpg` would be in variable `table1` and the standard deviations in `table2`.

`name(string)` is relevant only if you specify `replace`. `name()` allows changing the default stub name that `replace` uses to name the new variables associated with the statistics. If you specify `name(stat)`, the first statistic will be placed in variable `stat1`, the second in `stat2`, and so on.

`format(%fmt)` specifies the display format for presenting numbers in the table's cells. `format(%9.0g)` is the default; `format(%9.2f)` and `format(%9.2fc)` are popular alternatives. The width of the format you specify does not matter, except that `%fmt` must be valid. The width of the cells is chosen by `table` to present the results best. The `cellwidth()` option allows you to override `table`'s choice.

Limits

Up to four variables may be specified in the `by()`, so with the three row, column, and supercolumn variables, seven-way tables may be displayed.

Up to five statistics may be displayed in each cell of the table.

The sum of the number of rows, columns, supercolumns, and superrows is called the number of margins. A table may contain up to 3,000 margins. Thus a one-way table may contain 3,000 rows. A two-way table could contain 2,998 rows and two columns, 2,997 rows and three columns, . . . , 1,500 rows and 1,500 columns, . . . , two rows and 2,998 columns. A three-way table is similarly limited by the sum of the number of rows, columns, and supercolumns. A $r \times c \times d$ table is feasible if $r + c + d \leq 3,000$. The limit is set in terms of the sum of the rows, columns, supercolumns, and superrows, and not, as you might expect, in terms of their product.

Remarks and examples

[stata.com](http://www.stata.com)

Remarks are presented under the following headings:

[One-way tables](#)
[Two-way tables](#)
[Three-way tables](#)
[Four-way and higher-dimensional tables](#)
[Video example](#)

One-way tables

► Example 1

From the automobile dataset, here is a simple one-way table:

```
. use http://www.stata-press.com/data/r15/auto2
(1978 Automobile Data)
. table rep78, contents(mean mpg)
```

| Repair Record 1978 | mean(mpg) |
|-----------------------|-----------|
| Poor | 21 |
| Fair | 19.125 |
| Average | 19.4333 |
| Good | 21.6667 |
| Excellent | 27.3636 |

We are not limited to including only one statistic:

```
. table rep78, c(n mpg mean mpg sd mpg median mpg)
```

| Repair Record 1978 | N(mpg) | mean(mpg) | sd(mpg) | med(mpg) |
|-----------------------|--------|-----------|----------|----------|
| Poor | 2 | 21 | 4.24264 | 21 |
| Fair | 8 | 19.125 | 3.758324 | 18 |
| Average | 30 | 19.4333 | 4.141325 | 19 |
| Good | 18 | 21.6667 | 4.93487 | 22.5 |
| Excellent | 11 | 27.3636 | 8.732385 | 30 |

We abbreviated `contents()` as `c()`. The `format()` option will allow us to better format the numbers in the table:

```
. table rep78, c(n mpg mean mpg sd mpg median mpg) format(%9.2f)
```

| Repair Record 1978 | N(mpg) | mean(mpg) | sd(mpg) | med(mpg) |
|--------------------|--------|-----------|---------|----------|
| Poor | 2 | 21.00 | 4.24 | 21.00 |
| Fair | 8 | 19.12 | 3.76 | 18.00 |
| Average | 30 | 19.43 | 4.14 | 19.00 |
| Good | 18 | 21.67 | 4.93 | 22.50 |
| Excellent | 11 | 27.36 | 8.73 | 30.00 |

The `center` option will center the results under the headings:

```
. table rep78, c(n mpg mean mpg sd mpg median mpg) format(%9.2f) center
```

| Repair Record 1978 | N(mpg) | mean(mpg) | sd(mpg) | med(mpg) |
|--------------------|--------|-----------|---------|----------|
| Poor | 2 | 21.00 | 4.24 | 21.00 |
| Fair | 8 | 19.12 | 3.76 | 18.00 |
| Average | 30 | 19.43 | 4.14 | 19.00 |
| Good | 18 | 21.67 | 4.93 | 22.50 |
| Excellent | 11 | 27.36 | 8.73 | 30.00 |

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Two-way tables

► Example 2

In example 1, when we typed `'table rep78, ...'`, we obtained a one-way table. If we were to type `'table rep78 foreign, ...'`, we would obtain a two-way table:

```
. table rep78 foreign, c(mean mpg)
```

| Repair Record 1978 | Car type | |
|--------------------|----------|---------|
| | Domestic | Foreign |
| Poor | 21 | |
| Fair | 19.125 | |
| Average | 19 | 23.3333 |
| Good | 18.4444 | 24.8889 |
| Excellent | 32 | 26.3333 |

Note the missing cells. Certain combinations of repair record and car type do not exist in our dataset.

As with one-way tables, we can specify a display format for the cells and center the numbers within the cells if we wish.

```
. table rep78 foreign, c(mean mpg) format(%9.2f) center
```

| Repair Record 1978 | Car type | |
|-----------------------|----------|---------|
| | Domestic | Foreign |
| Poor | 21.00 | |
| Fair | 19.12 | |
| Average | 19.00 | 23.33 |
| Good | 18.44 | 24.89 |
| Excellent | 32.00 | 26.33 |

We can obtain row totals by specifying the row option and obtain column totals by specifying the col option. We specify both below:

```
. table rep78 foreign, c(mean mpg) format(%9.2f) center row col
```

| Repair Record 1978 | Car type | | |
|-----------------------|----------|---------|-------|
| | Domestic | Foreign | Total |
| Poor | 21.00 | | 21.00 |
| Fair | 19.12 | | 19.12 |
| Average | 19.00 | 23.33 | 19.43 |
| Good | 18.44 | 24.89 | 21.67 |
| Excellent | 32.00 | 26.33 | 27.36 |
| Total | 19.54 | 25.29 | 21.29 |

table can display multiple statistics within cells, but once we move beyond one-way tables, the table becomes busy:

```
. table foreign rep78, c(mean mpg n mpg) format(%9.2f) center
```

| Car type | Repair Record 1978 | | | | |
|----------|--------------------|------------|-------------|------------|------------|
| | Poor | Fair | Average | Good | Excellent |
| Domestic | 21.00 2 | 19.12 8 | 19.00 27 | 18.44 9 | 32.00 2 |
| Foreign | | | 23.33 3 | 24.89 9 | 26.33 9 |

This two-way table with two statistics per cell works well here. That was, in part, helped along by our interchanging the rows and columns. We turned the table around by typing `table foreign rep78` rather than `table rep78 foreign`.

Another way to display two-way tables is to specify a row and superrow rather than a row and column. We do that below and display three statistics per cell:

```
. table foreign, by(rep78) c(mean mpg sd mpg n mpg) format(%9.2f) center
```

| Repair Record 1978 and Car type | mean(mpg) | sd(mpg) | N(mpg) |
|---------------------------------|-----------|---------|--------|
| Poor | | | |
| Domestic | 21.00 | 4.24 | 2 |
| Foreign | | | |
| Fair | | | |
| Domestic | 19.12 | 3.76 | 8 |
| Foreign | | | |
| Average | | | |
| Domestic | 19.00 | 4.09 | 27 |
| Foreign | 23.33 | 2.52 | 3 |
| Good | | | |
| Domestic | 18.44 | 4.59 | 9 |
| Foreign | 24.89 | 2.71 | 9 |
| Excellent | | | |
| Domestic | 32.00 | 2.83 | 2 |
| Foreign | 26.33 | 9.37 | 9 |

◀

Three-way tables

▶ Example 3

We have data on the prevalence of byssinosis, a form of pneumoconiosis to which workers exposed to cotton dust are susceptible. The dataset is on 5,419 workers in a large cotton mill. We know whether each worker smokes, his or her race, and the dustiness of the work area. The categorical variables are

```
smokes      Smoker or nonsmoker in the last five years.
race        White or other.
workplace   1 (most dusty), 2 (less dusty), 3 (least dusty).
```

Moreover, this dataset includes a frequency-weight variable `pop`. Here is a three-way table showing the fraction of workers with byssinosis:

```
. use http://www.stata-press.com/data/r15/byssin
(Byssinosis incidence)
. table workplace smokes race [fw=pop], c(mean prob)
```

| Dustiness of workplace | Race and Smokes | | | |
|------------------------|-----------------|----------|----------|----------|
| | other | | white | |
| | no | yes | no | yes |
| least | .0107527 | .0101523 | .0081549 | .0162774 |
| less | .02 | .0081633 | .0136612 | .0143149 |
| most | .0820896 | .1679105 | .0833333 | .2295082 |

This table would look better if we showed the fraction to four digits:

```
. table workplace smokes race [fw=pop], c(mean prob) format(%9.4f)
```

| Dustiness of workplace | Race and Smokes | | | |
|------------------------------|-----------------|--------|-------------|--------|
| | other no | yes | white no | yes |
| least | 0.0108 | 0.0102 | 0.0082 | 0.0163 |
| less | 0.0200 | 0.0082 | 0.0137 | 0.0143 |
| most | 0.0821 | 0.1679 | 0.0833 | 0.2295 |

In this table, the rows are the dustiness of the workplace, the columns are whether the worker smokes, and the supercolumns are the worker's race.

Now we request that the table include the supercolumn totals by specifying the `sctotal` option, which we can abbreviate as `sc`:

```
. table workplace smokes race [fw=pop], c(mean prob) format(%9.4f) sc
```

| Dustiness of workplace | Race and Smokes | | | | Total | |
|------------------------------|-----------------|--------|-------------|--------|--------|--------|
| | other no | yes | white no | yes | no | yes |
| least | 0.0108 | 0.0102 | 0.0082 | 0.0163 | 0.0090 | 0.0145 |
| less | 0.0200 | 0.0082 | 0.0137 | 0.0143 | 0.0159 | 0.0123 |
| most | 0.0821 | 0.1679 | 0.0833 | 0.2295 | 0.0826 | 0.1929 |

The supercolumn total is the total over race and is divided into its columns based on smokes. Here is the table with the column rather than the supercolumn totals:

```
. table workplace smokes race [fw=pop], c(mean prob) format(%9.4f) col
```

| Dustiness of workplace | Race and Smokes | | | | | |
|------------------------------|-----------------|--------|--------|-------------|--------|--------|
| | other no | yes | Total | white no | yes | Total |
| least | 0.0108 | 0.0102 | 0.0104 | 0.0082 | 0.0163 | 0.0129 |
| less | 0.0200 | 0.0082 | 0.0135 | 0.0137 | 0.0143 | 0.0140 |
| most | 0.0821 | 0.1679 | 0.1393 | 0.0833 | 0.2295 | 0.1835 |

Here is the table with both column and supercolumn totals:

```
. table workplace smokes race [fw=pop], c(mean prob) format(%9.4f) sc col
```

| Dustiness of workplace | Race and Smokes | | | | | | | | |
|------------------------------|-----------------|--------|--------|-------------|--------|--------|-------------|--------|--------|
| | other no | yes | Total | white no | yes | Total | Total no | yes | Total |
| least | 0.0108 | 0.0102 | 0.0104 | 0.0082 | 0.0163 | 0.0129 | 0.0090 | 0.0145 | 0.0122 |
| less | 0.0200 | 0.0082 | 0.0135 | 0.0137 | 0.0143 | 0.0140 | 0.0159 | 0.0123 | 0.0138 |
| most | 0.0821 | 0.1679 | 0.1393 | 0.0833 | 0.2295 | 0.1835 | 0.0826 | 0.1929 | 0.1570 |

`table` is struggling to keep this table from becoming too wide—notice how it divided the words in the title in the top-left stub. Here, if the table had more columns, or, if we demanded more digits, `table` would be forced to segment the table and present it in pieces, which it would do:

```
. table workplace smokes race [fw=pop], c(mean prob) format(%9.6f) sc col
```

| Dustiness of workplace | Race and Smokes | | | | | |
|------------------------------|-----------------|----------|----------|----------|----------|----------|
| | other | | | white | | |
| | no | yes | Total | no | yes | Total |
| least | 0.010753 | 0.010152 | 0.010417 | 0.008155 | 0.016277 | 0.012949 |
| less | 0.020000 | 0.008163 | 0.013483 | 0.013661 | 0.014315 | 0.014035 |
| most | 0.082090 | 0.167910 | 0.139303 | 0.083333 | 0.229508 | 0.183521 |

| Dustiness of workplace | Race and Smokes | | |
|------------------------------|-----------------|----------|----------|
| | Total | | |
| | no | yes | Total |
| least | 0.008990 | 0.014471 | 0.012174 |
| less | 0.015901 | 0.012262 | 0.013846 |
| most | 0.082569 | 0.192905 | 0.156951 |

Here three digits is probably enough, so here is the table including all the row, column, and supercolumn totals:

```
. table workplace smokes race [fw=pop], c(mean prob) format(%9.3f) sc col row
```

| Dustiness of workplace | Race and Smokes | | | | | | | | |
|------------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | other | | | white | | | Total | | |
| | no | yes | Total | no | yes | Total | no | yes | Total |
| least | 0.011 | 0.010 | 0.010 | 0.008 | 0.016 | 0.013 | 0.009 | 0.014 | 0.012 |
| less | 0.020 | 0.008 | 0.013 | 0.014 | 0.014 | 0.014 | 0.016 | 0.012 | 0.014 |
| most | 0.082 | 0.168 | 0.139 | 0.083 | 0.230 | 0.184 | 0.083 | 0.193 | 0.157 |
| Total | 0.025 | 0.048 | 0.038 | 0.014 | 0.035 | 0.026 | 0.018 | 0.039 | 0.030 |

We can show multiple statistics:

```
. table workplace smokes race [fw=pop], c(mean prob n prob) format(%9.3f) sc  
> col row
```

| Dustiness of workplace | Race and Smokes | | | | | | | | |
|------------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | other | | | white | | | Total | | |
| | no | yes | Total | no | yes | Total | no | yes | Total |
| least | 0.011 | 0.010 | 0.010 | 0.008 | 0.016 | 0.013 | 0.009 | 0.014 | 0.012 |
| | 465 | 591 | 1,056 | 981 | 1,413 | 2,394 | 1,446 | 2,004 | 3,450 |
| less | 0.020 | 0.008 | 0.013 | 0.014 | 0.014 | 0.014 | 0.016 | 0.012 | 0.014 |
| | 200 | 245 | 445 | 366 | 489 | 855 | 566 | 734 | 1,300 |
| most | 0.082 | 0.168 | 0.139 | 0.083 | 0.230 | 0.184 | 0.083 | 0.193 | 0.157 |
| | 134 | 268 | 402 | 84 | 183 | 267 | 218 | 451 | 669 |
| Total | 0.025 | 0.048 | 0.038 | 0.014 | 0.035 | 0.026 | 0.018 | 0.039 | 0.030 |
| | 799 | 1,104 | 1,903 | 1,431 | 2,085 | 3,516 | 2,230 | 3,189 | 5,419 |

Four-way and higher-dimensional tables

▷ Example 4

Let's pretend that our byssinosis dataset also recorded each worker's sex (it does not, and we have made up this extra information). We obtain a four-way table just as we would a three-way table, but we specify the fourth variable as a superrow by including it in the `by()` option:

```
. use http://www.stata-press.com/data/r15/byssin1
(Byssinosis incidence)
. table workplace smokes race [fw=pop], by(sex) c(mean prob) format(%9.3f) sc
> col row
```

| Sex and Dustiness of workplace | Race and Smokes | | | | | | | | |
|---|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | other | | | white | | | Total | | |
| | no | yes | Total | no | yes | Total | no | yes | Total |
| Female | | | | | | | | | |
| least | 0.006 | 0.009 | 0.008 | 0.009 | 0.021 | 0.016 | 0.009 | 0.018 | 0.014 |
| less | 0.020 | 0.008 | 0.010 | 0.015 | 0.015 | 0.015 | 0.016 | 0.012 | 0.014 |
| most | 0.057 | 0.154 | 0.141 | | | | 0.057 | 0.154 | 0.141 |
| Total | 0.017 | 0.051 | 0.043 | 0.011 | 0.020 | 0.016 | 0.012 | 0.032 | 0.024 |
| Male | | | | | | | | | |
| least | 0.013 | 0.011 | 0.012 | 0.006 | 0.007 | 0.006 | 0.009 | 0.008 | 0.009 |
| less | 0.020 | 0.000 | 0.019 | 0.000 | 0.013 | 0.011 | 0.016 | 0.013 | 0.014 |
| most | 0.091 | 0.244 | 0.136 | 0.083 | 0.230 | 0.184 | 0.087 | 0.232 | 0.167 |
| Total | 0.029 | 0.041 | 0.033 | 0.020 | 0.056 | 0.043 | 0.025 | 0.052 | 0.039 |

If our dataset also included work group and we wanted a five-way table, we could include both the sex and work-group variables in the `by()` option. You may include up to four variables in `by()`, and so produce up to 7-way tables.

◀

Video example

[Combining cross-tabulations and descriptives in Stata](#)

Methods and formulas

The contents of cells are calculated by `collapse` and are displayed by `tabdisp`; see [D] [collapse](#) and [P] [tabdisp](#).

Also see

[R] **summarize** — Summary statistics

[R] **tabstat** — Compact table of summary statistics

[R] **tabulate oneway** — One-way table of frequencies

[R] **tabulate twoway** — Two-way table of frequencies

[D] **collapse** — Make dataset of summary statistics

[P] **tabdisp** — Display tables