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cross — Form every pairwise combination of two datasets

Syntax Menu Description Remarks and examples References Also see

Syntax

cross using filename

Menu

Data > Combine datasets > Form every pairwise combination of two datasets

Description

cross forms every pairwise combination of the data in memory with the data in *filename*. If *filename* is specified without a suffix, .dta is assumed.

Remarks and examples

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This command is rarely used; also see [D] joinby, [D] merge, and [D] append.

Crossing refers to merging two datasets in every way possible. That is, the first observation of the data in memory is merged with every observation of *filename*, followed by the second, and so on. Thus the result will have N_1N_2 observations, where N_1 and N_2 are the number of observations in memory and in *filename*, respectively.

Typically, the datasets will have no common variables. If they do, such variables will take on only the values of the data in memory.

Example 1

We wish to form a dataset containing all combinations of three age categories and two sexes to serve as a stub. The three age categories are 20, 30, and 40. The two sexes are male and female:

- . input str6 sex
 - sex
 - 1. male
 - 2. female
 - 3. end
- . save sex

file sex.dta saved

- . drop _all
- . input agecat

agecat

- 1. 20
- 2. 30
- 3.40
- 4. end
- . cross using sex

. list

	agecat	sex
1.	20	male
2.	30	male
3.	40	male
4.	20	female
5.	30	female
6.	40	female

References

Baum, C. F. 2009. An Introduction to Stata Programming. College Station, TX: Stata Press. Franklin, C. H. 2006. Stata tip 29: For all times and all places. Stata Journal 6: 147–148.

Also see

- [D] **append** Append datasets
- [D] fillin Rectangularize dataset
- [D] **joinby** Form all pairwise combinations within groups
- [D] merge Merge datasets
- [D] save Save Stata dataset

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