

## Description

`cluster notes` is a set of commands to manage notes for a previously run cluster analysis. You can attach notes that become part of the data and are saved when the data are saved and retrieved when the data are used. `cluster notes` may also be used to list notes for all defined cluster analyses or for specific cluster analyses names.

`cluster notes drop` allows you to drop cluster notes.

## Menu

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## Syntax

*Add a note to a cluster analysis*

```
cluster notes cname : text
```

*List all cluster notes*

```
cluster notes
```

*List cluster notes associated with specified cluster analyses*

```
cluster notes cnamelist
```

*Drop cluster notes*

```
cluster notes drop cname [ in numlist ]
```

## Remarks and examples

The cluster-analysis system in Stata has many features that allow you to manage the various cluster analyses that you perform. See [\[MV\] cluster](#) for information on all the available cluster-analysis commands; see [\[MV\] cluster utility](#) for other cluster commands, including `cluster list`, that help you manage your analyses. The `cluster notes` command is modeled after Stata's `notes` command (see [\[D\] notes](#)), but they are different systems and do not interact.

### ► Example 1

We illustrate the `cluster notes` command starting with three cluster analyses that have already been performed. The `cluster dir` command shows us the names of all the existing cluster analyses; see [\[MV\] cluster utility](#).

```
. cluster dir
sngeuc
sngabs
kmn3abs

. cluster note sngabs : I used single linkage with absolute value distance
. cluster note sngeuc : Euclidean distance and single linkage
. cluster note kmn3abs : This has the kmeans cluster results for 3 groups
. cluster notes
sngeuc
    notes:    1. Euclidean distance and single linkage
sngabs
    notes:    1. I used single linkage with absolute value distance
kmn3abs
    notes:    1. This has the kmeans cluster results for 3 groups
```

After adding a note to each of the three cluster analyses, we used the `cluster notes` command without arguments to list all the notes for all the cluster analyses.

The `*` and `?` characters may be used when referring to cluster names; see [\[U\] 11.2 Abbreviation rules](#).

```
. cluster note k* : Verify that observation 5 is correct. I am suspicious that
> there was a typographical error or instrument failure in recording the
> information.
. cluster notes kmn3abs
kmn3abs
    notes:    1. This has the kmeans cluster results for 3 groups
              2. Verify that observation 5 is correct. I am suspicious that
                  there was a typographical error or instrument failure in
                  recording the information.
```

`cluster notes` expanded `k*` to `kmn3abs`, the only cluster name that begins with a `k`. Notes that extend to multiple lines are automatically wrapped when displayed. When entering long notes, you just continue to type until your note is finished. Pressing *Return* signals that you are done with that note.

After examining the dendrogram (see [\[MV\] cluster dendrogram](#)) for the `sngeuc` single-linkage cluster analysis and seeing one small group of data that split off from the main body of data at a very large distance, you investigate further and find data problems. You decide to add some notes to the `sngeuc` analysis.

```
. cluster note *euc : All of Sam's data looks wrong to me.
. cluster note *euc : I think Sam should be fired.
. cluster notes sng?*
sngauc
  notes:    1. Euclidean distance and single linkage
           2. All of Sam's data looks wrong to me.
           3. I think Sam should be fired.

sngabs
  notes:    1. I used single linkage with absolute value distance
```

Sam, one of the lab technicians, who happens to be the owner's nephew and is paid more than you, really messed up. After adding these notes, you get second thoughts about keeping the notes attached to the cluster analysis (and the data). You decide you really want to delete those notes and to add a more politically correct note.

```
. cluster note sngauc : Ask Jennifer to help Sam reevaluate his data.
. cluster note sngauc
sngauc
  notes:    1. Euclidean distance and single linkage
           2. All of Sam's data looks wrong to me.
           3. I think Sam should be fired.
           4. Ask Jennifer to help Sam reevaluate his data.

. cluster note drop sngauc in 2/3
. cluster notes kmn3abs s*
kmn3abs
  notes:    1. This has the kmeans cluster results for 3 groups
           2. Verify that observation 5 is correct. I am suspicious that
              there was a typographical error or instrument failure in
              recording the information.

sngauc
  notes:    1. Euclidean distance and single linkage
           2. Ask Jennifer to help Sam reevaluate his data.

sngabs
  notes:    1. I used single linkage with absolute value distance
```

Just for illustration purposes, the new note was added before deleting the two offending notes. `cluster notes drop` can take an `in` argument followed by a list of note numbers. The numbers correspond to those shown in the listing provided by the `cluster notes` command. After the deletions, the note numbers are reassigned to remove gaps. So `sngauc` note 4 becomes note 2 after the deletion of notes 2 and 3 as shown above.

Without an `in` argument, the `cluster notes drop` command drops all notes associated with the named cluster.

◀

Remember that the cluster notes are stored with the data and, as with other updates you make to the data, the additions and deletions are not permanent until you save the data; see [D] [save](#).

## □ Technical note

Programmers can access the notes (and all the other cluster attributes) by using the `cluster query` command; see [MV] [cluster programming utilities](#).

□

## Also see

[MV] **cluster** — Introduction to cluster-analysis commands

[MV] **cluster programming utilities** — Cluster-analysis programming utilities

[MV] **cluster utility** — List, rename, use, and drop cluster analyses

[MV] **clustermat** — Introduction to clustermat commands

[D] **notes** — Place notes in data

[D] **save** — Save Stata dataset

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