

mi select — Programmer's alternative to `mi extract`

Description Stored results	Syntax Also see	Option	Remarks and examples
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Description

`mi select` is a programmer's command. It is a faster, more dangerous version of `mi extract`; see [MI] [mi extract](#). Before using `mi select`, the `mi` data must be preserved; see [P] [preserve](#).

`mi select init` initializes `mi select #` and must be used before the first call to `mi select #`.

`mi select #` replaces the data in memory with a copy of the data for $m = \#$. The data are not `mi set`.

Syntax

```
mi select init [ , fast ]
```

```
mi select #
```

where $0 \leq \# \leq M$, and where typical usage is

```
quietly mi query
local M = r(M)
preserve
mi select init
local priorcmd "r(priorcmd)"
forvalues m=1(1)'M' {
    mi select 'm'
    ...
    'priorcmd'
}
restore
```

`collect` is allowed; see [U] [11.1.10 Prefix commands](#).

Option

fast, specified with `mi select init`, specifies that the data delivered by `mi select #` commands not be changed except for sort order. Then `mi select` can operate more quickly. **fast** is allowed with all styles but currently affects the performance with the wide style only.

If **fast** is not specified, the data delivered by `mi select #` may be modified freely before the next `mi select #` call. However, the data may not be dropped. `mi select` uses characteristics (see [P] [char](#)) stored in `_dta[]` to know its state.

Remarks and examples

The two **mi select** commands work in tandem. **mi select init** initializes **mi select #**.

mi select init returns macro **r(priorcmd)**, which you are to issue as a command between each **mi select #** call. **r(priorcmd)** is not required to be issued before the first call to **mi select #**, although you may issue it if that is convenient. **mi select #** calls can be made in any order, and the same *m* may be selected repeatedly.

The data delivered by **mi select #** differ from those delivered by **mi extract** in that there may be extra variables in the dataset. One of the extra variables, **_mi_id**, is a unique observation identifier.

If you want to post changes made in the selected data back to the **mi** data, you can write a file containing **_mi_id** and the updated variables and then use **_mi_id** to match that to the **mi** data after your final **restore**. By default, changes to the selected data will not be posted back to the underlying **mi** data.

In the case of wide data, the **mi** data have no **_mi_id** variable. **_mi_id** in the selected data is reflected in the current order of the **mi** data.

Stored results

mi select init returns the following in **r()**:

Macros

r(priorcmd) command to be issued prior to calling **mi select #**; this command will be either **restore**, **preserve** or **nothing**

Also see

[MI] **Intro** — Introduction to **mi**

[MI] **mi extract** — Extract original or imputed data from **mi** data

[MI] **Technical** — Details for programmers

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