

User-inspired examples of table and collect

---generate customized tables

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You can download the slides and other materials here:

<https://tinyurl.com/collectEx>



collect Introduction

- **collect** is a new suite of commands introduced in Stata 17
- A **collection** includes items and their tags
- **Items** are numbers or strings
 - Each item has one or more tags
- **Tags** are **dimension-level** pairs
 - dim[level], such as union[0]
- **Layout**: we define the table layout using the row, column and table tags
 - Displays uniquely identified items in each cell

```
. table (union) (result)
```

result [frequency]	
	Frequency
Union worker	
Nonunion	1,417
Union	461
Total	1,878

union	[0]
	[1]
	[.m]

collect work flow

- **Get items**

- collect get
- collect: *command*
- table / etable

- **Specify layout**

- collect layout (*rows*) (*cols*) (*tabs*)

- **Adjust appearance**

- collect style
- collect label
- collect title
- collect notes
- collect stars

- **Publish**

- collect export

collect work flow

- **Get items**

- collect get
- collect: *command*
- table / etable

- **Specify layout**

- collect layout (*rows*) (*cols*) (*tabs*)

- **Adjust appearance**

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- **Publish**

- collect export

collect subcommands

collect get

Collect results from a Stata command

collect clear

Clear all collections in memory

collect combine

Combine collections

collect copy

Copy a collection

collect create

Create a new collection

collect dims

List dimensions in a collection

collect dir

Display names of all collections in memory

collect drop

Drop collections from memory

collect label

Manage custom labels in a collection

collect levelsof

List levels of a dimension

collect recode

Recode dimension levels in a collection

collect remap

Remap tags in a collection

collect rename

Rename a collection

collect save

Save a collection to disk

collect set

Set the current (active) collection

collect stars

Add stars for significant results in a collection

collect use

Use a collection from disk

collect layout

Specify table layout for the current collection

collect preview

Preview the table in a collection

collect export

Export table from a collection

collect style autolevels

Collection styles for automatic dimension levels

collect style cell

Collection styles for cells

collect style clear

Clear all collection styles

collect style column

Collection styles for column headers

collect style _cons

Collection styles for intercept position

collect style header

Collection styles for hiding and showing header components

collect style html

Collection styles for HTML files

collect style putdocx

Collection styles for putdocx

collect style putpdf

Collection styles for putpdf

collect style row

Collection styles for row headers

collect style save

Save collection styles to disk

collect style showbase

Collection styles for displaying base levels

collect style showempty

Collection styles for displaying empty cells

collect style showomit

Collection styles for displaying omitted coefficients

collect style table

Collection styles for table headers

collect style use

Use collection styles from disk

- Statistics > Summaries, tables, and tests > Tables and collections > Build and style table
- Or type `db tables`

Tables Builder

Collection: ETable

Dimensions	Levels
Race (race)	White (1)
Sex (sex)	Black (2)
Result (result)	Other (3)

Covariate names and column n...
Depvars, parameters, and colu...
Row names (rowname)
Covariate names with factors re...
Command results index (cmds...
Stars (stars)
Dependent variable name (etab...
Dependent variable label (etabl...
Estimates name (etable_estimat...
Estimates title (etable_title)
Result type (result_type)
Result program class (program...
Table cell type (cell_type)
Table border block (border_blo...

Rows
coleq#colname#result[_r_b_r_se] result[N]

Columns
cmdset#stars

Tables

Preview

Logistic regression results comparison

	1	2	3	4	5
Age (years)	1.060 ** (0.004)	1.061 ** (0.004)			
Sex					
Female	1.066 (0.102)		1.185 (0.110)		
Race					
Black	1.860 ** (0.240)			1.843 ** (0.227)	
Other	1.410 (0.498)			1.010 (0.348)	
Body mass index (BMI)	1.073 ** (0.009)				1.089 ** (0.008)
Intercept	0.000 ** (0.000)	0.002 ** (0.000)	0.046 ** (0.003)	0.047 ** (0.002)	0.005 ** (0.001)
Number of observations	10349	10349	10349	10349	10349

** p<.01, * p<.05
DV=diabetes

Edit dimension labels
Edit level labels
Construct significance stars
Manage composite results
Custom table title
Table title styles
Table notes
Table notes styles
Compose row headers
Compose column headers
Compose table headers
Show/hide header content
Cell appearance styles
Intercept position

Export...

“Tables builder”

Current
collection



Tables Builder

Collection: ETable

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Tags →

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Black (2)
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STATA 17

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Tables Builder

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Table layout

Rows

Columns

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Label and style dialogs

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Show/hide header content

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Intercept position

collect
subcommands



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← Preview

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? ↻ 📄 ← Copy syntax

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Export to other document types

New `table` command

- Reimagined in Stata 17
- Designed for categorical variables (the statistics we request are computed for each group).
- Display summary statistics (default is frequency) or other estimation command results
- Relationship with `collect`?
 - `table` saves the items and layout in a collection called `Table`
 - Use `collect` to make further customizations and style changes

table examples

```
. sysuse auto
(1978 automobile data)
```

```
. table foreign
```

	Frequency
Car origin	
Domestic	52
Foreign	22
Total	74

```
. table foreign rep78
```

	Repair record 1978					
	1	2	3	4	5	Total
Car origin						
Domestic	2	8	27	9	2	48
Foreign			3	9	9	21
Total	2	8	30	18	11	69

```
. table foreign, statistic(mean price weight)
```

	Price	Weight (lbs.)
Car origin		
Domestic	6072.423	3317.115
Foreign	6384.682	2315.909
Total	6165.257	3019.459

```
. table foreign rep78, statistic(mean price weight)
```

	Repair record 1978					
	1	2	3	4	5	Total
Car origin						
Domestic						
Price	4564.5	5967.625	6607.074	5881.556	4204.5	6179.25
Weight (lbs.)	3100	3353.75	3442.222	3532.222	1960	3368.333
Foreign						
Price			4828.667	6261.444	6292.667	6070.143
Weight (lbs.)			2010	2207.778	2403.333	2263.333
Total						
Price	4564.5	5967.625	6429.233	6071.5	5913	6146.043
Weight (lbs.)	3100	3353.75	3299	2870	2322.727	3032.029

table examples (2)

```
. table ()(foreign), command(regress price mpg weight) statistic(mean price mpg weight)
```

	Car origin		
	Domestic	Foreign	Total
regress price mpg weight			
Coefficient			
Mileage (mpg)	237.691	-19.77737	-49.51222
Weight (lbs.)	4.415037	5.155842	1.746559
Intercept	-13285.44	-5065.841	1946.069
Mean			
Mean			
Price	6072.423	6384.682	6165.257
Mileage (mpg)	19.82692	24.77273	21.2973
Weight (lbs.)	3317.115	2315.909	3019.459

```
. table ( rep78 foreign )
```

	Frequency
Repair record 1978	
1	
Car origin	
Domestic	2
Total	2
2	
Car origin	
Domestic	8
Total	8
3	
Car origin	
Domestic	27
Foreign	3
Total	30
4	
Car origin	
Domestic	9
Foreign	9
Total	18
5	
Car origin	
Domestic	2
Foreign	9
Total	11
Total	
Car origin	
Domestic	48
Foreign	21
Total	69

```
. table (rep78 foreign), nototal
```

	Frequency
Repair record 1978	
1	
Car origin	
Domestic	2
2	
Car origin	
Domestic	8
3	
Car origin	
Domestic	27
Foreign	3
4	
Car origin	
Domestic	9
Foreign	9
5	
Car origin	
Domestic	2
Foreign	9

User-inspired examples

1. Combine two basic tables

Extension of example 1 (combine two basic tables horizontally)

difficulty: ***

2. Customize the labels in the table header & add customized statistics

Example 2 extension: Add customized rows or empty rows

difficulty: **

3. Indent the row header

difficulty: *

4. Turn the dataset (or anything!) into a table

difficulty: **

Read more

- `collect/table` feature page:

<https://www.stata.com/new-in-stata/tables/>

- `etable` feature page:

<https://www.stata.com/new-in-stata/tables-of-estimation-results/>

- `collect` documentation:

<https://www.stata.com/manuals/tables.pdf>

- Stata Blog articles: *Customizable tables in Stata 17*, part 1-part 7

<https://blog.stata.com/2021/06/07/customizable-tables-in-stata-17-part-1-the-new-table-command/>

Learn more

- [Regression modeling using Stata AND Panel-data analysis using Stata](#) **Oct 25-27**
- [Bayesian analysis using Stata](#) (free webinar) **Nov 1**
- [Customized tables using Stata](#) **Nov 14-17**
- [Introduction to causal inference and treatment effects](#) (free webinar) **Dec 7**

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Thank you!



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