

Creating customized tables in Stata

(Creando tablas de resultados personalizadas en Stata)

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June 3, 2021

Learn to create tables such as these

(Aprenderemos a crear tablas como estas)

	Región				Total
	NE	MO	S	O	
Diabetes					
No	95.32%	95.49%	94.36%	95.62%	95.18%
Sí	4.68%	4.51%	5.64%	4.38%	4.82%
Presión alta					
No	55.92%	59.99%	57.34%	57.19%	57.72%
Sí	44.08%	40.01%	42.66%	42.81%	42.28%
Tuvo ataque al corazón					
No	96.32%	95.64%	95.41%	94.41%	95.40%
Sí	3.68%	4.36%	4.59%	5.59%	4.60%
Estado de salud					
Excelente	26.95%	26.33%	19.14%	21.68%	23.29%
Muy buena	26.76%	26.01%	22.82%	25.18%	25.07%
Regular	30.26%	26.52%	28.29%	29.14%	28.43%
No muy buena	12.33%	15.12%	18.65%	17.60%	16.16%
Terrible	3.69%	6.02%	11.11%	6.40%	7.05%

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	A	B	C	D
1		% of the population	Probability of developing:	
2			High BP	Diabetes
3	Age group			
4	20–29	22.41%	0.199	0.007
5	30–39	15.67%	0.287	0.013
6	40–49	12.29%	0.384	0.032
7	50–59	12.47%	0.519	0.052
8	60–69	27.63%	0.562	0.080
9	70+	9.53%	0.657	0.111
10	BMI			
11	<18.5	3.18%	0.227	0.032
12	18.5–24.99	48.49%	0.321	0.035
13	25–29.99	32.81%	0.472	0.044
14	30+	15.53%	0.656	0.093

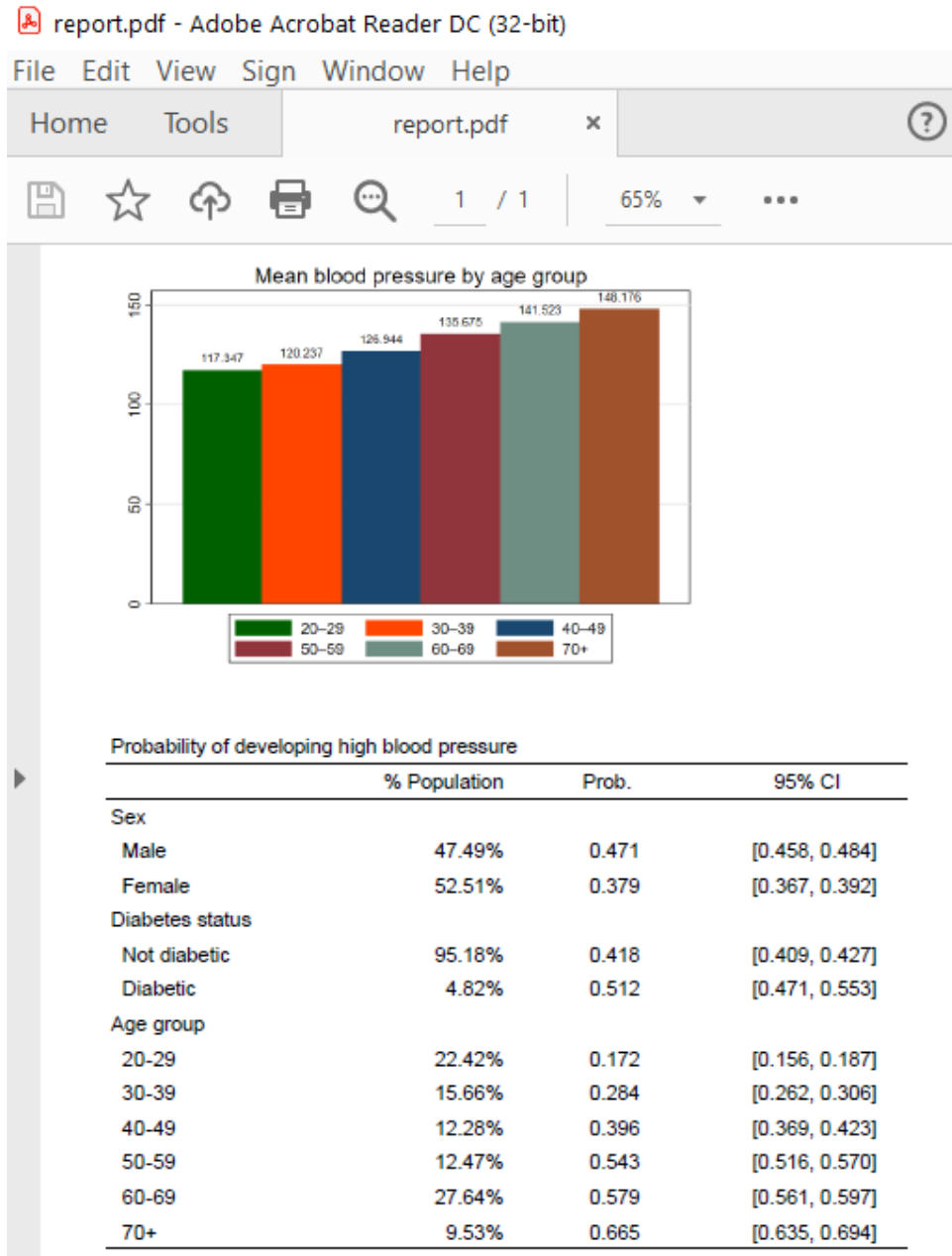
Learn to create tables such as these

(Aprenderemos a crear tablas como estas)

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Comparación de salario entre empleados a base de membresía en un sindicato										
	No sindicalizado			Sindicalizado			Total			Prueba de igualdad
	Mean	SD	N	Mean	SD	N	Mean	SD	N	
1970	\$5.21	\$1.93	620	\$6.01	\$2.04	178	\$5.39	\$1.99	798	0.0000
1980	\$6.04	\$3.13	1,187	\$7.01	\$4.32	499	\$6.33	\$3.55	1,686	0.0000
1985	\$6.80	\$4.13	1,551	\$8.15	\$4.74	528	\$7.14	\$4.33	2,079	0.0000
* Se reportan valores p de dos colas para la prueba de igualdad del ingreso promedio.										

Learn to create tables such as these

(Aprenderemos a crear tablas como estas)



What are Stata's capabilities for creating tables? (¿Que capacidades tiene Stata para crear tablas?)

- Create tables of summary statistics, results of hypothesis tests, and regression results. Create tables with a combination of these results, or with any other results returned from a Stata command.
- Customize your table by adding stars for significance, formatting table headers and statistics, modifying borders, and more.
- Export your finalized table to Excel, Word, HTML, Markdown, LaTeX, PDF, and SMCL.
- Create a standard look with style files
- Work interactively in the Tables Builder or by typing commands

How does it work?

(¿Cómo funciona?)

1. Collect results with the `collect` prefix, `collect get` command, or `table` command.
2. Lay out the table by telling Stata what it should place on the rows and columns.
3. Customize your table to obtain your preferred style. Format your statistics, add percent signs, enclose numbers in parenthesis, and more.
4. Export your table to another format. Create a document with just one table, or incorporate your table in more extensive reports.

Creating tables with the new table command
(Creando tablas con el nuevo comando table)

Table with percentages (Tabla con porcentajes)

```
. use nhanessp2, clear  
(Second National Health and Nutrition Examination Survey)  
  
. table región, statistic(percent)
```

	Percent
Región	
NE	20.25
MO	26.80
S	27.56
O	25.39
Total	100.00

Table with percentages across categories (Tabla con porcentajes en cada categoría)

```
. table salud región, statistic(percent, across(salud))
```

	Región				Total
	NE	MO	S	O	
Estado de salud					
Excelente	26.95	26.33	19.14	21.68	23.29
Muy buena	26.76	26.01	22.82	25.18	25.07
Regular	30.26	26.52	28.29	29.14	28.43
No muy buena	12.33	15.12	18.65	17.60	16.16
Terrible	3.69	6.02	11.11	6.40	7.05
Total	100.00	100.00	100.00	100.00	100.00

Table with percentages across multiple variables (Tabla con porcentajes para varias variables)

```
. table (var) (región), ///  
> statistic(fvpercent diabetes alta ataque) ///  
> style(table-1) sformat("%s%%")
```

	Región				
	NE	MO	S	O	Total
Diabetes					
No	95.32%	95.49%	94.36%	95.62%	95.18%
Sí	4.68%	4.51%	5.64%	4.38%	4.82%
Presión alta					
No	55.92%	59.99%	57.34%	57.19%	57.72%
Sí	44.08%	40.01%	42.66%	42.81%	42.28%
Tuvo ataque al corazón					
No	96.32%	95.64%	95.41%	94.41%	95.40%
Sí	3.68%	4.36%	4.59%	5.59%	4.60%

Table with percentages and means (Tabla con porcentajes y medias)

```
. table (var) (región), statistic(mean presión imc edad) ///  
> statistic(fvpercent ataque alta diabetes) ///  
> style(table-1) nformat(%6.2f mean) sformat("%s%%" fvpercent)
```

	Región				
	NE	MO	S	O	Total
Presión arterial sistólica	131.38	130.49	131.16	130.59	130.88
Índice de masa corporal	25.58	25.52	25.63	25.42	25.54
Edad	3.39	3.25	3.41	3.38	3.36
Tuvo ataque al corazón					
No	96.32%	95.64%	95.41%	94.41%	95.40%
Sí	3.68%	4.36%	4.59%	5.59%	4.60%
Presión alta					
No	55.92%	59.99%	57.34%	57.19%	57.72%
Sí	44.08%	40.01%	42.66%	42.81%	42.28%
Diabetes					
No	95.32%	95.49%	94.36%	95.62%	95.18%
Sí	4.68%	4.51%	5.64%	4.38%	4.82%

Comparison of blood pressure across sex (Comparar la presión arterial basado en el sexo)

```
. ttest presión, by(sexo)
```

Two-sample t test with equal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf. interval]	
Hombre	4,915	132.8877	.2994383	20.99274	132.3007	133.4747
Mujer	5,436	129.0679	.3407989	25.12684	128.3998	129.736
Combined	10,351	130.8817	.2293364	23.33265	130.4321	131.3312
diff		3.81981	.4577395		2.922552	4.717068

```
diff = mean(Hombre) - mean(Mujer)
```

t = 8.3449

$$H_0: \text{diff} = 0$$

Degrees of freedom = 10349

$$H_a: \text{diff} < 0$$

Ha: $\text{diff} \neq 0$

$$H_a: \text{diff} > 0$$
$$\Pr(T < t) = 1.0000$$
$$\Pr(|T| > |t|) = 0.0000$$
$$\Pr(T > t) = 0.0000$$

Returned results (Resultados)

```
. return list
```

```
scalars:
```

```
    r(level) = 95
      r(sd) = 23.33265014752308
    r(sd_2) = 25.12684271524318
    r(sd_1) = 20.99274059696966
      r(se) = .4577395495253661
    r(p_u) = 4.01647153672e-17
    r(p_l) = 1
      r(p) = 8.03294307343e-17
      r(t) = 8.344941903935108
    r(df_t) = 10349
    r(mu_2) = 129.067880794702
      r(N_2) = 5436
    r(mu_1) = 132.8876907426246
      r(N_1) = 4915
```

Table with results from other Stata commands

(Tabla con resultados de otros comandos de Stata)

```
table (command) (result), nformat(%6.2f) nformat(%05.4f p) ///  
  command(Hombres=r(mu_1) Mujeres=r(mu_2) Diferencia=r(mu_2)-r(mu_1) r(p): ttest presión, by(sexo)) ///  
  command(Hombres=r(mu_1) Mujeres=r(mu_2) Diferencia=r(mu_2)-r(mu_1) r(p): ttest colesterol, by(sexo))
```

	Hombres	Mujeres	Diferencia	Valor p
Presión arterial sistólica	132.89	129.07	-3.82	0.0000
Colesterol	213.17	221.74	8.56	0.0000

Table with results from other Stata commands (Tabla con resultados de otros comandos de Stata)

```
table (command) (result), nformat(%6.2f) nformat(%05.4f p) ///  
  command(Hombres=r(mu_1) Mujeres=r(mu_2) Diferencia=r(mu_2)-r(mu_1) r(p): ttest presión, by(sexo)) ///  
  command(Hombres=r(mu_1) Mujeres=r(mu_2) Diferencia=r(mu_2)-r(mu_1) r(p): ttest colesterol, by(sexo))
```

	Hombres	Mujeres	Diferencia	Valor p
Presión arterial sistólica	132.89	129.07	-3.82	0.0000
Colesterol	213.17	221.74	8.56	0.0000

```
collect label levels command 1 "Presión arterial sistólica" 2 "Colesterol", modify  
collect label levels result p "Valor p", modify
```


The table command (El comando table)

table (*rows*) (*columns*) (*tables*), **statistic**(*stats*) **command**(*command*) **totals**(*totals*)

mean	mean
semean	standard error of the mean
sebinomial	standard error of the mean, binomial
sepoisson	standard error of the mean, Poisson

variance	variance
sd	standard deviation
skewness	skewness
kurtosis	kurtosis
cv	coefficient of variation

count	number of nonmissing values
-------	-----------------------------

median	median
p#	#th percentile
q1	first quartile
q2	second quartile
q3	third quartile
iqr	interquartile range

min	minimum value
max	maximum value
range	range

first	first value
last	last value
firstnm	first nonmissing value
lastnm	last nonmissing value

total	total
rawtotal	unweighted total

fvfrequency	frequency of each factor-variable level
fvrawfrequency	unweighted frequency of each factor-variable level
fvproportion	proportion within each factor-variable level
fvrawproportion	unweighted proportion within each factor-variable level
fvpercent	percentage within each factor-variable level
fvrawpercent	unweighted percentage within each factor-variable level

proportion	proportion
percent	percentage
rawproportion	proportion ignoring optionally specified weights
rawpercent	percentage ignoring optionally specified weights

Table with means for each level of a categorical variable (Tabla con medias por categorías)

```
. table () región, statistic(mean presión imc)
```

	Región				Total
	NE	MO	S	O	
Presión arterial sistólica	131.3836	130.4863	131.1626	130.5936	130.8817
Índice de masa corporal	25.57535	25.51936	25.63317	25.42299	25.5376

Table without variable labels in rows (Tabla sin etiquetas en los encabezados de las filas)

	Región				Total
	NE	MO	S	O	
presión	131.3836	130.4863	131.1626	130.5936	130.8817
ímc	25.57535	25.51936	25.63317	25.42299	25.5376

Table without variable labels in rows
(Tabla sin etiquetas en los encabezados de las filas)

	Región					
	NE	MO	Value	Tags		
presión imc	131.3836	130.4863	131.383	var[presión]	región[NE]	result[mean]
	25.57535	25.51936	130.486	var[presión]	región[MO]	result[mean]
			25.575	var[imc]	región[NE]	result[mean]
			25.519	var[imc]	región[MO]	result[mean]

Dimensions in our collection

(Dimensiones en nuestra colección)

```
. collect dims
```

```
Collection dimensions
```

```
Collection: Table
```

	Dimension	No. levels
Layout, style, header, label		
	cmdset	1
	colname	2
	command	1
	región	5
	result	1
	statcmd	1
	var	2
Style only		
	border_block	4
	cell_type	4

Table of regression results

(Tabla de resultados de análisis de regresión)

Goal: Table of regression results

(Meta: Tabla de resultados de análisis de regresión)

	1	2
Peso (kg)	0.42 (0.01)	0.43 (0.02)
Diabetes	14.46 (1.02)	12.57 (1.54)
Mujer		0.95 (0.48)
Diabetes x Mujer		3.15 (2.05)
Intercept	99.97 (1.04)	98.52 (1.24)
R-squared	0.10	0.10

Workflow (Flujo de trabajo)

1. Collect results using the collect prefix

collect : *command*

2. Lay out the table

collect layout (*rows*) (*columns*)

3. Customize the table

collect style cell ...

collect style header ...

collect style column ...

collect style row ...

4. Export the table

collect export ...

Exploring our collection (Explorando la colección)

- List the dimensions in our collection

`collect dims`

- List the levels of a dimension

`collect levelsof ...`

- List the labels for a dimension

`collect label list ...`

- Preview the table after we've customized it

`collect preview`

Collecting regression results

(Recolectar resultados de análisis de regresión)

```
. collect create reg1
(current collection is reg1)
```

```
. use nhanessp, clear
(Second National Health and Nutrition Examination Survey)
```

```
. collect: regress presión peso i.diabetes
```

Source	SS	df	MS	Number of obs	=	10,349
Model	559427.954	2	279713.977	F(2, 10346)	=	570.36
Residual	5073852.09	10,346	490.416788	Prob > F	=	0.0000
				R-squared	=	0.0993
				Adj R-squared	=	0.0991
Total	5633280.05	10,348	544.38346	Root MSE	=	22.145

presión	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
peso	.4203622	.0142106	29.58	0.000	.3925068	.4482176
diabetes						
Diabetes	14.45636	1.018656	14.19	0.000	12.45959	16.45312
_cons	99.96567	1.042461	95.89	0.000	97.92224	102.0091

Returned results (Resultados)

```
. return list

scalars:
      r(level) = 95

matrices:
      r(table) : 9 x 4

. matrix list r(table)

r(table)[9,4]
```

		0b.	1.	
	peso	diabetes	diabetes	_cons
b	.42036218	0	14.456357	99.965668
se	.01421055	.	1.0186564	1.0424612
t	29.580993	.	14.191594	95.8939
pvalue	1.11e-184	.	2.744e-45	0
ll	.39250675	.	12.459594	97.922242
ul	.4482176	.	16.453121	102.00909
df	10346	10346	10346	10346
crit	1.9601933	1.9601933	1.9601933	1.9601933
eform	0	0	0	0

Row identifiers are results, or statistics. ->

Covariate names are the column identifiers, or column names.

Dimensions in our collection

(Dimensiones en nuestra colección)

```
. collect dims
```

Collection dimensions
Collection: reg1

Dimension		No. levels
Layout, style, header, label		
cmdset		1
coleg		1
colname		4
program_class		1
result		30
result_type		3
Header, label		
diabetes		
Style only		
border_block		4
cell_type		4

Lay out the table (Diseñar la tabla)

```
. collect layout (colname) (result)
```

Collection: reg1

Rows: colname

Columns: result

Table 1: 4 x 8

	Coefficient	95% CI		df	95% lower bound	p-value	Std. error	95% upper bound	t
Peso (kg)	.4203622	.3925068	.4482176	10346	.3925068	0.000	.0142106	.4482176	29.58
No diabetes	0						0		
Diabetes	14.45636	12.45959	16.45312	10346	12.45959	0.000	1.018656	16.45312	14.19
Intercept	99.96567	97.92224	102.0091	10346	97.92224	0.000	1.042461	102.0091	95.89

The levels of dimension result

(Los niveles de la dimensión result)

```
. collect levelsof result
```

```
Collection: reg1
```

```
Dimension: result
```

```
Levels: F N _r_b _r_ci _r_df _r_lb _r_p _r_se _r_ub _r_z cmd cmdline depvar df_m df_r estat_cmd ll ll_0  
marginsok model mss predict properties r2 r2_a rank rmse rss title vce
```


Lay out the table (Diseñar la tabla)

```
. collect layout (colname) (result[_r_b _r_ci])
```

Collection: reg1

Rows: colname

Columns: result[_r_b _r_ci]

Table 1: 4 x 2

	Coefficient		95% CI
Peso (kg)	.4203622	.3925068	.4482176
No diabetes	0		
Diabetes	14.45636	12.45959	16.45312
Intercept	99.96567	97.92224	102.0091

Collect results (Recolectar resultados)

```
. collect: regress presión peso diabetes##sexo
```

Source	SS	df	MS	Number of obs	=	10,349
Model	563294.124	4	140823.531	F(4, 10344)	=	287.31
Residual	5069985.92	10,344	490.13785	Prob > F	=	0.0000
				R-squared	=	0.1000
				Adj R-squared	=	0.0996
Total	5633280.05	10,348	544.38346	Root MSE	=	22.139

presión	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
peso	.4335342	.0153559	28.23	0.000	.4034335	.4636348
diabetes						
Diabetes	12.57211	1.538361	8.17	0.000	9.556621	15.58759
sexo						
Mujer	.9520999	.4817911	1.98	0.048	.0076962	1.896504
diabetes#sexo						
Diabetes#Mujer	3.146466	2.048958	1.54	0.125	-.8698888	7.16282
_cons	98.5238	1.237787	79.60	0.000	96.0975	100.9501

Dimensions in our collection

(Dimensiones en nuestra colección)

```
. collect dims
```

Collection dimensions

Collection: reg1

Dimension		No. levels
Layout, style, header, label		
cmdset		2
coleg		1
colname		10
program_class		1
result		30
result_type		3
Header, label		
diabetes		
sexo		
Style only		
border_block		4
cell_type		4

Lay out the table (Diseñar la tabla)

```
. collect layout (colname) (cmdset#result[_r_b _r_ci])
```

Collection: reg1

Rows: colname

Columns: cmdset#result[_r_b _r_ci]

Table 1: 10 x 4

	1		2	
	Coefficient		95% CI	
Peso (kg)	.4203622	.3925068	.4482176	.4335342
No diabetes	0			0
Diabetes	14.45636	12.45959	16.45312	12.57211
Hombre				0
Mujer				.9520999
No diabetes # Hombre				0
No diabetes # Mujer				0
Diabetes # Hombre				0
Diabetes # Mujer				3.146466
Intercept	99.96567	97.92224	102.0091	98.5238

Lay out the table

(Diseñar la tabla)

```
. collect layout (colname#result[_r_b _r_se]) (cmdset)
```

Collection: reg1

Rows: colname#result[_r_b _r_se]

Columns: cmdset

Table 1: 30 x 2

	1	2
Peso (kg)		
Coefficient	.4203622	.4335342
Std. error	.0142106	.0153559
No diabetes		
Coefficient	0	0
Std. error	0	0
Diabetes		
Coefficient	14.45636	12.57211
Std. error	1.018656	1.538361
Hombre		
Coefficient		0
Std. error		0
Mujer		
Coefficient	.9520999	
Std. error	.4817911	
No diabetes # Hombre		
Coefficient		0

Lay out the table (Diseñar la tabla)

```
. collect layout (colname#result[_r_b _r_se] result[r2]) (cmdset)
```

Collection: reg1

Rows: colname#result[_r_b _r_se] result[r2]

Columns: cmdset

Table 1: 31 x 2

	1	2
Peso (kg)		
Coefficient	.4203622	.4335342
Std. error	.0142106	.0153559
No diabetes		
Coefficient	0	0
Std. error	0	0
Diabetes		
Coefficient	14.45636	12.57211
Std. error	1.018656	1.538361
(output omitted)		
Intercept		
Coefficient	99.96567	98.5238
Std. error	1.042461	1.237787
R-squared	.0993077	.099994

Workflow (Flujo de trabajo)

1. Collect results using the collect prefix

collect : *command*

2. Lay out the table

collect layout (*rows*) (*columns*)

3. Customize the table

collect style cell ...

collect style header ...

collect style column ...

collect style row ...

4. Export the table

collect export ...

Step 3: Customizing the table (Paso 3: Personalizar la tabla)

We would like to

- Hide the base levels
- Format the results to display only two digits after the decimal
- Enclose the standard errors in parentheses
- Remove the border on the right side
- Remove the labels for the coefficients and standard errors
- Change the delimiter

Base levels and numeric format

(Nivel de referencia y formato de número)

```
. collect style showbase off  
. collect style cell result, nformat(%5.2f)  
. collect preview
```

	1	2
Peso (kg)		
Coefficient	0.42	0.43
Std. error	0.01	0.02
Diabetes		
Coefficient	14.46	12.57
Std. error	1.02	1.54
Mujer		
Coefficient		0.95
Std. error		0.48
Diabetes # Mujer		
Coefficient		3.15
Std. error		2.05
Intercept		
Coefficient	99.97	98.52
Std. error	1.04	1.24
R-squared	0.10	0.10

Enclose standard errors in parentheses (Colocar error estándar entre paréntesis)

```
. collect style cell result[_r_se], sformat("(%.s)")
```

```
. collect preview
```

	1	2
Peso (kg)		
Coefficient	0.42	0.43
Std. error	(0.01)	(0.02)
Diabetes		
Coefficient	14.46	12.57
Std. error	(1.02)	(1.54)
Mujer		
Coefficient		0.95
Std. error		(0.48)
Diabetes # Mujer		
Coefficient		3.15
Std. error		(2.05)
Intercept		
Coefficient	99.97	98.52
Std. error	(1.04)	(1.24)
R-squared	0.10	0.10

* **%s** refers to the numeric value

Remove borders and horizontally center results (Eliminar el borde y centrar horizontalmente los resultados)

```
. collect levelsof cell_type
```

Collection: reg1

Dimension: cell_type

Levels: column-header corner item row-header

```
. collect style cell cell_type[item column-header], halign(center)
```

```
. collect style cell border_block[corner row-header], border(right, pattern(nil))
```

```
. collect preview
```

	1	2
Peso (kg)		
Coefficient	0.42	0.43
Std. error	(0.01)	(0.02)
Diabetes		
Coefficient	14.46	12.57
Std. error	(1.02)	(1.54)
Mujer		
Coefficient		0.95
Std. error		(0.48)
Diabetes # Mujer		
Coefficient		3.15
Std. error		(2.05)
Intercept		
Coefficient	99.97	98.52
Std. error	(1.04)	(1.24)
R-squared	0.10	0.10

Labels for the the levels of dimension result (Etiquetas para los niveles de la dimensión result)

```
. collect label list result
```

```
Collection: reg1
```

```
Dimension: result
```

```
Label: Result
```

```
Level labels:
```

```
    F    F statistic
```

```
    N    Number of observations
```

```
    _r_b  Coefficient
```

```
    _r_ci __LEVEL__% CI
```

```
    _r_df df
```

```
    _r_lb __LEVEL__% lower bound
```

```
    _r_p  p-value
```

```
    _r_se Std. error
```

```
    _r_ub __LEVEL__% upper bound
```

```
    _r_z  t
```

```
    cmd  Command
```

```
cmdline  Command line as typed
```

```
depvar   Dependent variable
```

Hiding labels for levels of dimension result (Ocultar las etiquetas)

```
. collect style header result, level(hide)

. collect style header result[r2], level(label)

. collect preview
```

	1	2
Peso (kg)	0.42 (0.01)	0.43 (0.02)
Diabetes	14.46 (1.02)	12.57 (1.54)
Mujer		0.95 (0.48)
Diabetes # Mujer		3.15 (2.05)
Intercept	99.97 (1.04)	98.52 (1.24)
R-squared	0.10	0.10

Changing the delimiter (Cambiar el delimitador)

```
. collect style column, extraspace(1)
. collect style row stack, delimiter(" x ") spacer
. collect preview
```

	1	2
Peso (kg)	0.42 (0.01)	0.43 (0.02)
Diabetes	14.46 (1.02)	12.57 (1.54)
Mujer		0.95 (0.48)
Diabetes x Mujer		3.15 (2.05)
Intercept	99.97 (1.04)	98.52 (1.24)
R-squared	0.10	0.10

Exporting our table (Exportar la tabla)

- `collect export` can be used to export the table to Microsoft Word, Microsoft Excel, PDF, HTML, LaTeX, Markdown, SMCL, and plain text files
 - . `collect export report1.xlsx`

Exporting our table (Exportar la tabla)

- `collect export` can be used to export the table to Microsoft Word, Microsoft Excel, PDF, HTML, LaTeX, Markdown, SMCL, and plain text files
 - `. collect export report1.xlsx`
- If you are creating more extensive reports in Microsoft Word or PDF format, you can include the table in those documents: `putdocx collect` and `putpdf collect`
 - You can also add a title and notes, set the table width, and more:
`collect style putdocx` and `collect style putpdf`

Exporting our table (Exportar la tabla)

- **collect export** can be used to export the table to Microsoft Word, Microsoft Excel, PDF, HTML, LaTeX, Markdown, SMCL, and plain text files
`. collect export report1.xlsx`
- If you are creating more extensive reports in Microsoft Word or PDF format, you can include the table in those documents: **putdocx collect** and **putpdf collect**
 - You can also add a title and notes, set the table width, and more:
`collect style putdocx` and `collect style putpdf`
- Similarly, you could include this table in an Excel file, along other Stata results, with the **putexcel ul_cell = collect** syntax

Managing styles and collections

(Manejo de estilos y colecciones)

Save the layout and style (Guardar el diseño y estilo)

- We can save the layout and style so that we can apply it to other tables:

```
. collect style save tblareg
```

List the collections
we have in
memory

(Obtener lista de
las colecciones en
memoria)

```
. collect dir
```

```
Collections in memory  
Current: reg1
```

Name	No. items
Table	10
default	0
reg1	118

We can have multiple collections in memory. All the style changes we have made only apply to this current collection.

Creating another collection (Crear otra colección)

```
. collect create reg2
```

```
(current collection is reg2)
```

```
. collect _r_b _r_se : regress colesterol i.diabetes i.sexo
```

```
. collect _r_b _r_se : regress colesterol diabetes##sexo
```

```
(output omitted)
```

Now our current (active) collection is **reg2**. Any results we collect will be stored in this collection. Any style changes we make will be applied to this collection, by default.

Lay out the table (Diseñar la tabla)

```
. collect layout (colname#result) (cmdset)
```

Collection: reg2

Rows: colname#result

Columns: cmdset

Table 1: 27 x 2

	1	2
No diabetes		
Coefficient	0	0
Std. error	0	0
Diabetes		
Coefficient	9.763889	5.748875
Std. error	2.256087	3.4131
Hombre		
Coefficient	0	0
Std. error	0	0
Mujer		
Coefficient	8.50188	8.162971
Std. error	.9678378	.9916246
No diabetes # Hombre		
Coefficient		0
Std. error		0

Apply the style
file to this
collection

(Aplicar el estilo
a esta colección)

```
. collect style use tablareg, replace layout
```

```
Collection: reg2
```

```
Rows: colname#result[_r_b _r_se] result[r2]
```

```
Columns: cmdset
```

```
Table 1: 13 x 2
```

```
. collect preview
```

	1	2
Diabetes	9.76 (2.26)	5.75 (3.41)
Mujer	8.50 (0.97)	8.16 (0.99)
Diabetes x Mujer		7.13 (4.55)
Intercept	212.74 (0.71)	212.92 (0.72)
R-squared	0.01	0.01

Add stars for significance and export the table

(Agregar estrellas a los resultados significativos y exportar la tabla)

```
. collect stars _r_p "0.01" "****" "0.05" "***" "0.10" "**", attach(_r_b)  
  
. collect export "report2", as(pdf) replace
```

Table with summary statistics and
postestimation results

(Crear una tabla con porcentajes y resultados a
base de análisis de regresión)

Workflow (Flujo de trabajo)

1. Collect probabilities from margins

collect : margins ...

2. Collect percentages

table ...

3. Lay out the table

collect layout (*rows*) (*columns*)

4. Customize the table

collect style cell ...

collect style row ...

collect label levels ...

5. Export the table

collect export ...

Logistic regression (Regresión logística)

```
. collect create logit  
(current collection is logit)
```

```
. logit alta i.sexo i.diabetes i.edadcat, nolog
```

```
Logistic regression               Number of obs = 10,349  
                                LR chi2(7)   = 1563.35  
                                Prob > chi2   = 0.0000  
Log likelihood = -6267.9897       Pseudo R2    = 0.1109
```

alta	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
sexo						
Mujer	-.4349361	.0431725	-10.07	0.000	-.5195526	-.3503196
diabetes						
Diabetes	.4424432	.100436	4.41	0.000	.2455922	.6392943
edadcat						
30-39	.6570507	.0785988	8.36	0.000	.5029998	.8111015
40-49	1.16578	.0802232	14.53	0.000	1.008545	1.323014
50-59	1.768663	.0793167	22.30	0.000	1.613206	1.924121
60-69	1.915989	.0678957	28.22	0.000	1.782916	2.049062
70+	2.285936	.0885412	25.82	0.000	2.112399	2.459474
_cons	-1.385992	.058852	-23.55	0.000	-1.50134	-1.270644

Collect probabilities from margins (Recolectar probabilidades del comando margins)

```
. collect: margins sexo diabetes edadcat
```

Predictive margins
Model VCE: OIM

Number of obs = 10,349

Expression: Pr(alta), predict()

	Delta-method					
	Margin	std. err.	z	P> z	[95% conf. interval]	
sexo						
Hombre	.4709147	.0065918	71.44	0.000	.457995	.4838344
Mujer	.3794736	.0061375	61.83	0.000	.3674444	.3915029
diabetes						
No diabetes	.4180688	.0046332	90.23	0.000	.408988	.4271496
Diabetes	.5121547	.0209538	24.44	0.000	.4710859	.5532235
edadcat						
20-29	.1715306	.0078717	21.79	0.000	.1561024	.1869587
30-39	.2840992	.0111984	25.37	0.000	.2621507	.3060477
40-49	.3960843	.013634	29.05	0.000	.3693621	.4228066
50-59	.5431238	.0137738	39.43	0.000	.5161276	.5701199
60-69	.5789079	.0092216	62.78	0.000	.5608338	.596982
70+	.6645402	.015055	44.14	0.000	.635033	.6940474

Segments of the population (Grupos de la población)

```
. table var if e(sample), stat(fvpercent sexo diabetes edadcat) ///  
> name(logit) append
```

	Factor variable percent
Sex=Hombre	47.49
Sex=Mujer	52.51
Diabetes=No diabetes	95.18
Diabetes=Diabetes	4.82
Edad=20-29	22.42
Edad=30-39	15.66
Edad=40-49	12.28
Edad=50-59	12.47
Edad=60-69	27.64
Edad=70+	9.53

table will store these results in a collection called Table, by default. But we told Stata to append them to the collection logit.

Dimensions in our collection

(Dimensiones en nuestra colección)

`. collect dims`

Collection dimensions
Collection: logit

	Dimension	No. levels
Layout, style, header, label		
	cmdset	2
	colname	13
	command	1
	program_class	1
	result	32
	result_type	3
	rowname	10
	statcmd	1
	var	10
Header, label		
	diabetes	
	edadcat	
	sexo	
Style only		
	border_block	4
	cell_type	4

Lay out the table (Diseñar la tabla)

```
. collect layout (colname) (result[fvpercent _r_b _r_ci])
```

Collection: logit

Rows: colname

Columns: result[fvpercent _r_b _r_ci]

Table 1: 10 x 3

	Factor variable percent	Coefficient	95% CI	
Sex=Hombre	47.49	.4709147	.457995	.4838344
Sex=Mujer	52.51	.3794736	.3674444	.3915029
Diabetes=No diabetes	95.18	.4180688	.408988	.4271496
Diabetes=Diabetes	4.82	.5121547	.4710859	.5532235
Edad=20-29	22.42	.1715306	.1561024	.1869587
Edad=30-39	15.66	.2840992	.2621507	.3060477
Edad=40-49	12.28	.3960843	.3693621	.4228066
Edad=50-59	12.47	.5431238	.5161276	.5701199
Edad=60-69	27.64	.5789079	.5608338	.596982
Edad=70+	9.53	.6645402	.635033	.6940474

Modify labels and stack row elements

(Modificar etiquetas y apilar los encabezados de las filas)

```
. collect label levels result fvpercent "% Población" _r_b "Prob.", modify  
. collect style row stack, nobinder  
. collect preview
```

	% Población	Prob.	95% CI	
Sex				
Hombre	47.49	.4709147	.457995	.4838344
Mujer	52.51	.3794736	.3674444	.3915029
Diabetes				
No diabetes	95.18	.4180688	.408988	.4271496
Diabetes	4.82	.5121547	.4710859	.5532235
Edad				
20-29	22.42	.1715306	.1561024	.1869587
30-39	15.66	.2840992	.2621507	.3060477
40-49	12.28	.3960843	.3693621	.4228066
50-59	12.47	.5431238	.5161276	.5701199
60-69	27.64	.5789079	.5608338	.596982
70+	9.53	.6645402	.635033	.6940474

Modify numeric formats and borders

(Modificar el formato de los números y esconder bordes)

```
. collect style cell result[_r_b _r_ci], nformat(%05.3f) halign(center)

. collect style cell result[_r_ci], cidelimiter(", ") sformat("[%s]")

. collect style cell result[fvpercent], nformat(%5.2f) sformat("%s%") halign(right)

. collect style cell border_block[corner row-header], border(right, pattern(nil))

. collect preview
```

	% Población	Prob.	95% CI
Sex			
Hombre	47.49%	0.471	[0.458, 0.484]
Mujer	52.51%	0.379	[0.367, 0.392]
Diabetes			
No diabetes	95.18%	0.418	[0.409, 0.427]
Diabetes	4.82%	0.512	[0.471, 0.553]
Edad			
20-29	22.42%	0.172	[0.156, 0.187]
30-39	15.66%	0.284	[0.262, 0.306]
40-49	12.28%	0.396	[0.369, 0.423]
50-59	12.47%	0.543	[0.516, 0.570]
60-69	27.64%	0.579	[0.561, 0.597]
70+	9.53%	0.665	[0.635, 0.694]

Adding customized tables to extensive documents
(Incluir tablas personalizadas en documentos extensos)

Create a Word document with a customized table and graph (Crear un documento de Word con una tabla y un gráfico)

* Create a graph

```
graph bar (mean) presión, over(edadcat) asyvars legend(rows(2)) scheme(s1color) ///  
  blabel(bar) ytitle("") title("Presión promedio")  
graph export presion.png, replace
```

* Create an active .docx file and insert the graph

```
putdocx begin  
putdocx paragraph, halign(center)  
putdocx image presion.png, width(4.5)
```

* Specify the style to be used when exporting the table

```
collect style putdocx, width(80%) title(Probabilidad de tener la presión alta)  
putdocx collect  
putdocx save report3.docx, replace
```

Other capabilities

(Otras funcionalidades)

Saving and loading collections (Guardar y usar una colección)

- Save a collection
`. collect save filename`
- Load the collection into memory to customize it or create other tables with those results
`. collect use filename`

More on managing collections

(Más información sobre el manejo de colecciones)

- Copy collections
- Rename collections
- Combine collections
- Drop collections
- Reorganize items in a collection by remapping tags and recoding levels of a dimension

Saving and loading labels (Guardar y usar etiquetas)

- Save a set of labels
 . **collect label save** *filename*
- Load the file with labels for use with other collections
 . **collect label use** *filename*

More on styles (Más información sobre estilos)

- Use [predefined styles](#) that are shipped with Stata
- Use your own style file as the default for collections and tables created by `table`
[set collect style](#)
[set table style](#)
- Specify the levels of a dimension to be automatically displayed
[collect style autolevels](#)

Where to learn more

(¿En dónde puedo encontrar más información?)

- [Overview of customizable tables](#)
- [Stata Customizable Tables and Collected Results Reference Manual](#)
- [Stata Base Reference Manual](#)

References (Referencias)

- McDowell, A., A. Engel, J. T. Massey, and K. Maurer. 1981. Plan and operation of the Second National Health and Nutrition Examination Survey, 1976–1980. *Vital and Health Statistics* 1(15): 1–144.

Thank you! Gracias!