```
GET
  FILE='\\kclad.ds.kcl.ac.uk\anywhere\UserData\TGStore03\k1759846\My Docume
nts\diabetes - raw data.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.
COMPUTE chol_ratio=chol / hdl.
EXECUTE.
EXAMINE VARIABLES=chol_ratio BY gender
  /PLOT=BOXPLOT
  /STATISTICS=NONE
  /NOTOTAL.
```

Explore

Notes

Output Created		18-OCT-2017 12:03:14
Comments		
Input	Data	\\kclad.ds.kcl.ac.uk\anywhere\UserData\TGStore03\k1759846\My Documents\diabetes - raw data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	403
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=chol_ratio BY gender /PLOT=BOXPLOT /STATISTICS=NONE /NOTOTAL.
Resources	Processor Time	00:00:02.41
	Elapsed Time	00:00:01.88

[DataSet1] \\kclad.ds.kcl.ac.uk\anywhere\UserData\TGStore03\k1759846\My Documents\diabetes - raw data.sav

gender

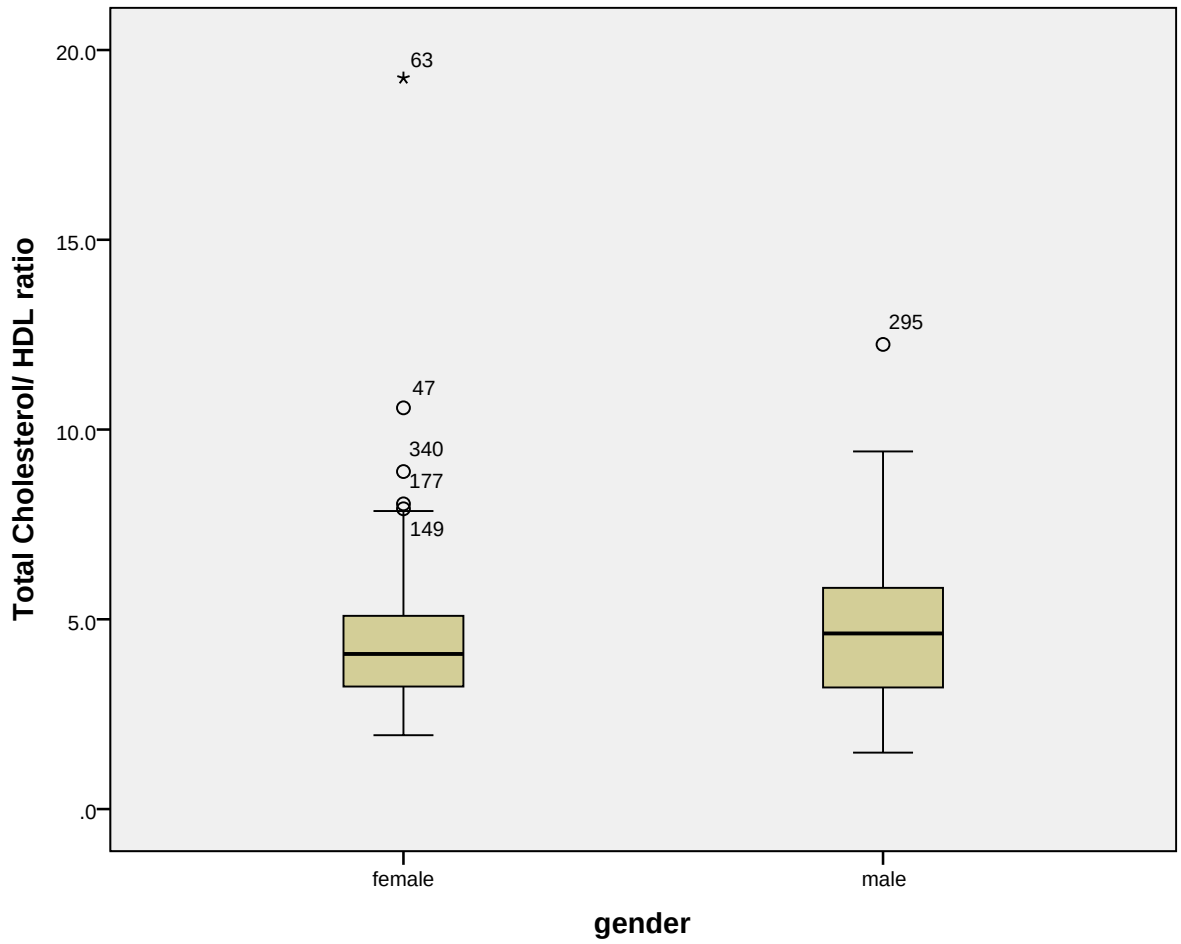
Case Processing Summary

		Cases				
		Valid		Missing		Total
	gender	N	Percent	N	Percent	N
Total Cholesterol/ HDL ratio	female	234	100.0%	0	0.0%	234
	male	168	99.4%	1	0.6%	169

Case Processing Summary

		Cases
		Total
	gender	Percent
Total Cholesterol/ HDL ratio	female	100.0%
	male	100.0%

Total Cholesterol/ HDL ratio



```
RECODE age (Lowest thru 39=1) (40 thru 59=2) (60 thru 79=3) (80 thru Highes
t=4) INTO age_groups.
VARIABLE LABELS  age_groups 'Age Groups'.
EXECUTE.
EXAMINE VARIABLES=bp.1s BY age_groups
  /PLOT=BOXPLOT
  /STATISTICS=NONE
  /NOTOTAL.
```

Explore

Notes

Output Created		18-OCT-2017 12:29:43
Comments		
Input	Data	\\kclad.ds.kcl.ac.uk\anywhere\UserData\TGStore03\k1759846\My Documents\diabetes - raw data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	403
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=bp.1s BY age_groups /PLOT=BOXPLOT /STATISTICS=NONE...
Resources	Processor Time	00:00:00.52
	Elapsed Time	00:00:00.23

Age Groups

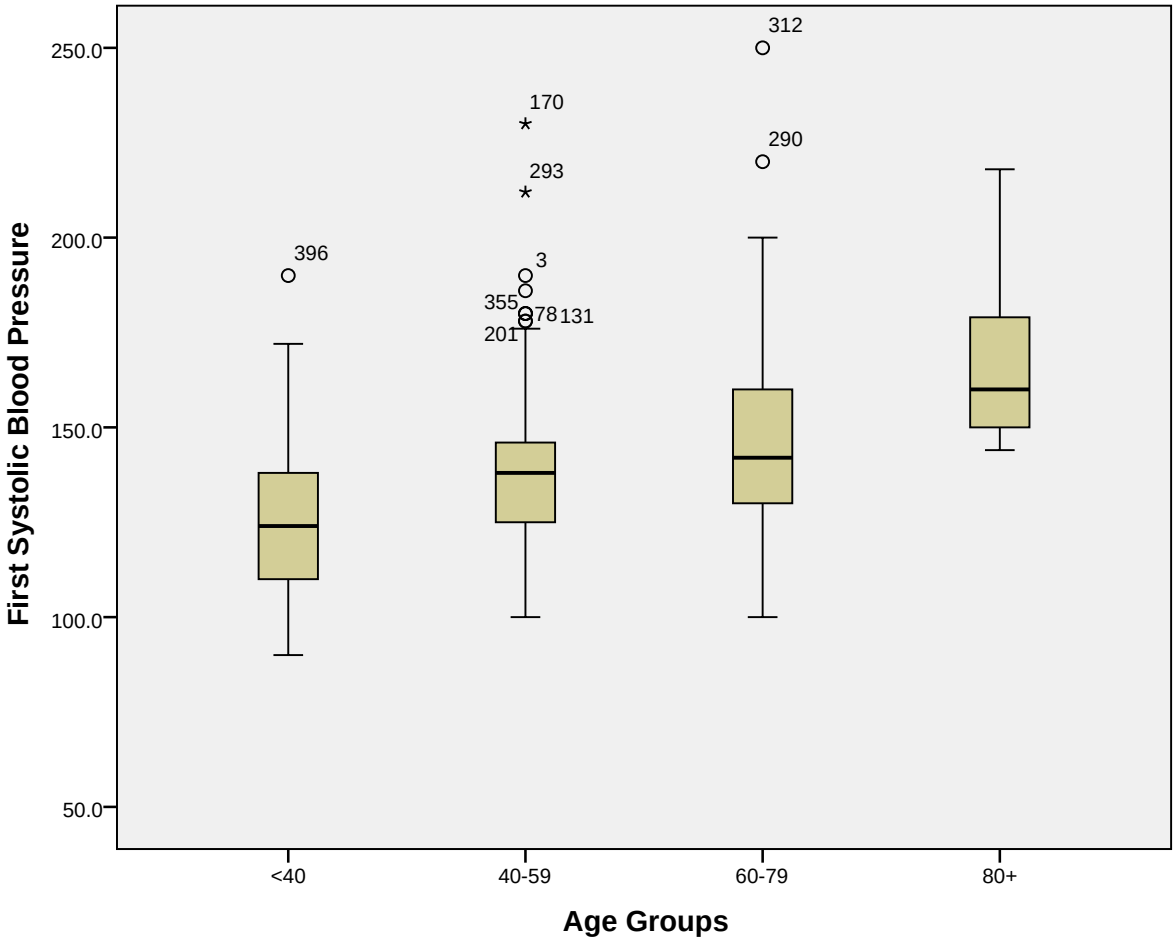
Case Processing Summary

		Cases				
		Valid		Missing		Total
	Age Groups	N	Percent	N	Percent	N
First Systolic Blood Pressure	<40	141	97.9%	3	2.1%	144
	40-59	155	98.7%	2	1.3%	157
	60-79	92	100.0%	0	0.0%	92
	80+	10	100.0%	0	0.0%	10

Case Processing Summary

		Cases
		Total
	Age Groups	Percent
First Systolic Blood Pressure	<40	100.0%
	40-59	100.0%
	60-79	100.0%
	80+	100.0%

First Systolic Blood Pressure




```
 USE ALL.
COMPUTE filter_$=(glyhb > 7.0).
VARIABLE LABELS filter_$ 'glyhb > 7.0 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.
DATASET COPY  Diabetes.
DATASET ACTIVATE  Diabetes.
FILTER OFF.
USE ALL.
SELECT IF (glyhb > 7.0).
EXECUTE.
DATASET ACTIVATE  DataSet1.
FREQUENCIES VARIABLES=chol_ratio
  /ORDER=ANALYSIS.
```

Frequencies

Notes

Output Created		18-OCT-2017 12:41:25
Comments		
Input	Active Dataset	DataSet1
	Filter	glyhb > 7.0 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	60
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data.
Syntax		FREQUENCIES VARIABLES=chol_ratio /ORDER=ANALYSIS.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.00

Statistics

Total Cholesterol/ HDL ratio

N	Valid	60
	Missing	0

Total Cholesterol/ HDL ratio

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.0	1	1.7	1.7	1.7
	2.8	1	1.7	1.7	3.3
	2.8	1	1.7	1.7	5.0
	2.9	1	1.7	1.7	6.7
	2.9	1	1.7	1.7	8.3
	3.0	1	1.7	1.7	10.0
	3.2	1	1.7	1.7	11.7
	3.2	1	1.7	1.7	13.3
	3.3	1	1.7	1.7	15.0
	3.3	2	3.3	3.3	18.3
	3.8	1	1.7	1.7	20.0
	4.0	1	1.7	1.7	21.7
	4.0	1	1.7	1.7	23.3
	4.0	1	1.7	1.7	25.0
	4.0	1	1.7	1.7	26.7
	4.1	1	1.7	1.7	28.3
	4.2	1	1.7	1.7	30.0
	4.2	1	1.7	1.7	31.7
	4.3	1	1.7	1.7	33.3
	4.5	1	1.7	1.7	35.0
	4.5	1	1.7	1.7	36.7
	4.7	1	1.7	1.7	38.3
	4.8	1	1.7	1.7	40.0
	4.8	1	1.7	1.7	41.7
	4.9	1	1.7	1.7	43.3
	4.9	1	1.7	1.7	45.0
	5.0	1	1.7	1.7	46.7
	5.0	1	1.7	1.7	48.3
	5.1	1	1.7	1.7	50.0
	5.3	1	1.7	1.7	51.7
	5.3	1	1.7	1.7	53.3
	5.3	1	1.7	1.7	55.0
	5.5	1	1.7	1.7	56.7
	5.6	1	1.7	1.7	58.3
	5.7	1	1.7	1.7	60.0
	5.7	1	1.7	1.7	61.7
	5.8	1	1.7	1.7	63.3
	6.0	1	1.7	1.7	65.0

Total Cholesterol/ HDL ratio

	Frequency	Percent	Valid Percent	Cumulative Percent
6.3	1	1.7	1.7	66.7
6.4	1	1.7	1.7	68.3
6.5	1	1.7	1.7	70.0
6.8	1	1.7	1.7	71.7
6.9	1	1.7	1.7	73.3
7.0	1	1.7	1.7	75.0
7.0	1	1.7	1.7	76.7
7.1	1	1.7	1.7	78.3
7.1	1	1.7	1.7	80.0
7.1	1	1.7	1.7	81.7
7.3	1	1.7	1.7	83.3
7.3	1	1.7	1.7	85.0
7.5	1	1.7	1.7	86.7
7.6	1	1.7	1.7	88.3
7.8	1	1.7	1.7	90.0
7.9	1	1.7	1.7	91.7
8.0	1	1.7	1.7	93.3
8.9	1	1.7	1.7	95.0
9.4	1	1.7	1.7	96.7
12.2	1	1.7	1.7	98.3
19.3	1	1.7	1.7	100.0
Total	60	100.0	100.0	

```
 COMPUTE wh_ratio=waist / hip.
EXECUTE.
RECODE age glyhb (Lowest thru 7=0) (ELSE=1) INTO age_groups diabetes.
VARIABLE LABELS  age_groups 'Age Groups' /diabetes 'diagnosis of diabetes'.
EXECUTE.
EXAMINE VARIABLES=wh_ratio BY diabetes
  /PLOT=BOXPLOT
  /STATISTICS=NONE
  /NOTOTAL.
```

Explore

Notes

Output Created		18-OCT-2017 12:49:30
Comments		
Input	Active Dataset	DataSet1
	Filter	glyhb > 7.0 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	60
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=wh_ratio BY diabetes /PLOT=BOXPLOT /STATISTICS=NONE /NOTOTAL.
Resources	Processor Time	00:00:00.25
	Elapsed Time	00:00:00.19

diagnosis of diabetes

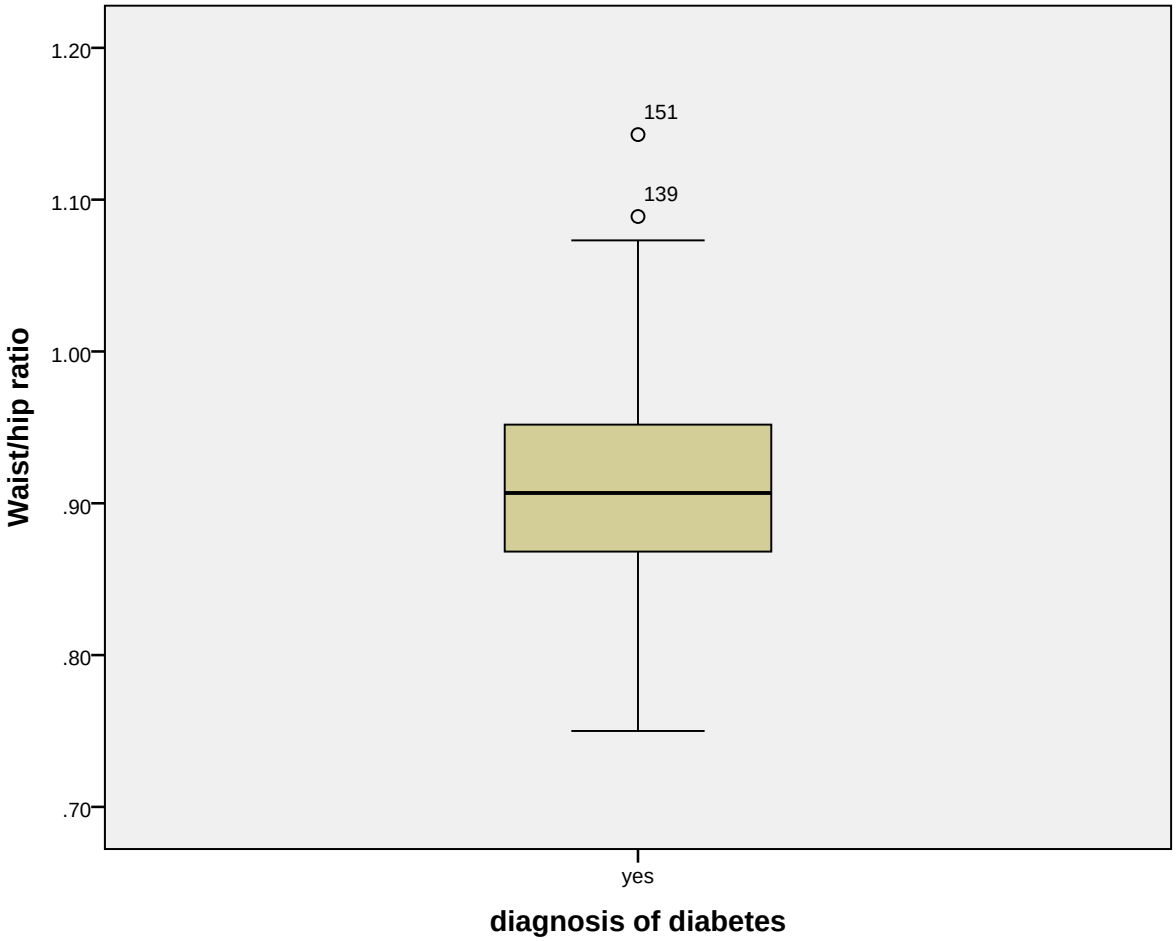
Case Processing Summary

		Cases				
		Valid		Missing		Total
	diagnosis of diabetes	N	Percent	N	Percent	N
Waist/hip ratio	yes	60	100.0%	0	0.0%	60

Case Processing Summary

		Cases
		Total
	diagnosis of diabetes	Percent
Waist/hip ratio	yes	100.0%

Waist/hip ratio




```
 FILTER OFF.
USE ALL.
EXECUTE.
EXAMINE VARIABLES=wh_ratio BY diabetes
  /PLOT=BOXPLOT
  /STATISTICS=NONE
  /NOTOTAL.
```

Explore

Notes

Output Created		18-OCT-2017 12:50:08
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	403
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=wh_ratio BY diabetes /PLOT=BOXPLOT /STATISTICS=NONE /NOTOTAL.
Resources	Processor Time	00:00:00.41
	Elapsed Time	00:00:00.21

diagnosis of diabetes

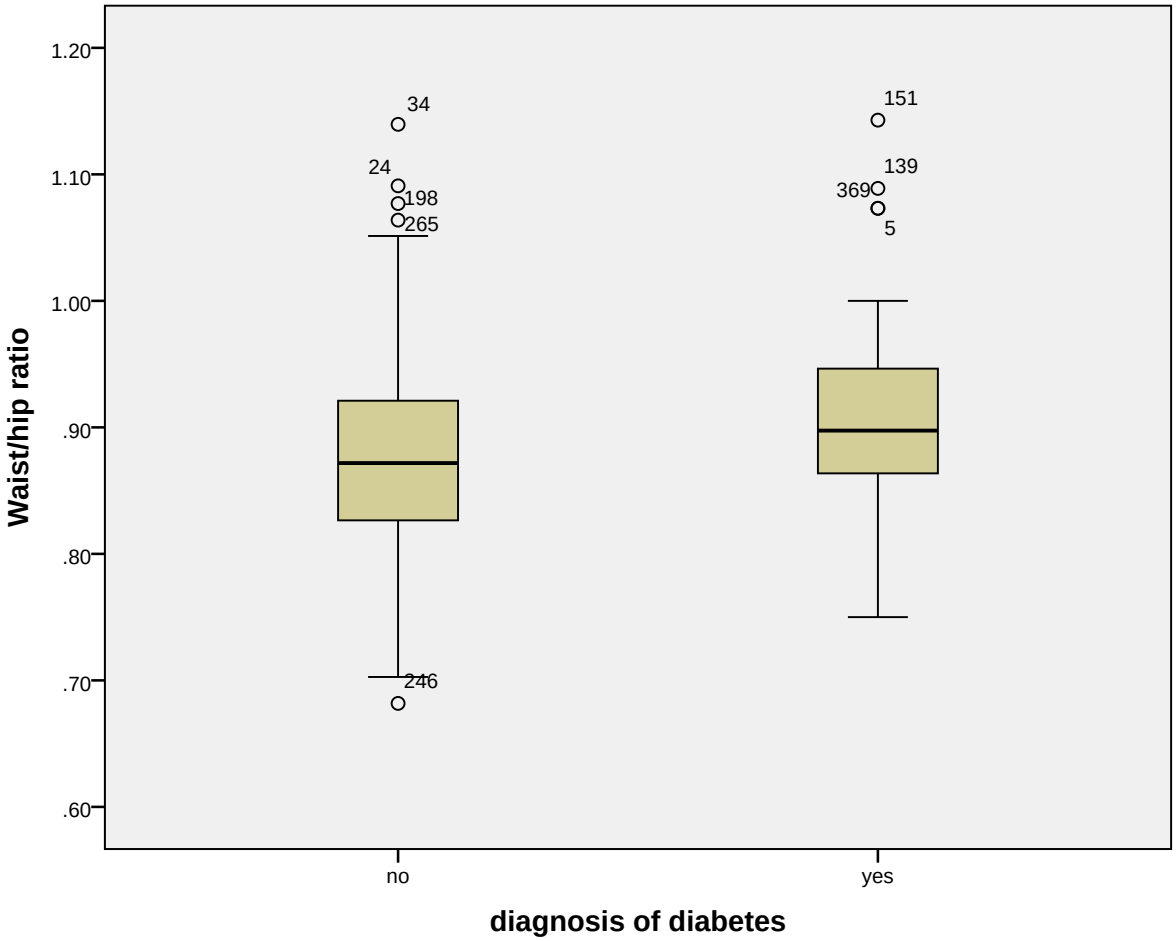
Case Processing Summary

		Cases				
		Valid		Missing		Total
	diagnosis of diabetes	N	Percent	N	Percent	N
Waist/hip ratio	no	328	99.4%	2	0.6%	330
	yes	73	100.0%	0	0.0%	73

Case Processing Summary

		Cases
		Total
	diagnosis of diabetes	Percent
Waist/hip ratio	no	100.0%
	yes	100.0%

Waist/hip ratio




```
 USE ALL.
COMPUTE filter_$=(glyhb > 7.0).
VARIABLE LABELS filter_$ 'glyhb > 7.0 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.
FILTER OFF.
USE ALL.
EXECUTE.
USE ALL.
COMPUTE filter_$=(diabetes = 1).
VARIABLE LABELS filter_$ 'diabetes = 1 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.
FILTER OFF.
USE ALL.
```

```
EXECUTE.
USE ALL.
COMPUTE filter_$=(glyhb > 7).
VARIABLE LABELS filter_$ 'glyhb > 7 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.
T-TEST
  /TESTVAL=0
  /MISSING=ANALYSIS
  /VARIABLES=wh_ratio
  /CRITERIA=CI(.95).
```

T-Test

Notes

Output Created		18-OCT-2017 12:57:18
Comments		
Input	Active Dataset	DataSet1
	Filter	glyhb > 7 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	60
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST /TESTVAL=0 /MISSING=ANALYSIS /VARIABLES=wh_ratio /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.01

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
Waist/hip ratio	60	.9113	.07556	.00976

One-Sample Test

	Test Value = 0				
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence ... Lower
Waist/hip ratio	93.419	59	.000	.91131	.8918

One-Sample Test

	Test Value = 0	
	95% Confidence Interval of the ...	
	Upper	
Waist/hip ratio	.9308	

```
 FILTER OFF.
USE ALL.
EXECUTE.
USE ALL.
COMPUTE filter_$=(glyhb  <=  7).
VARIABLE LABELS filter_$ 'glyhb  <=  7 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.
T-TEST
  /TESTVAL=0
  /MISSING=ANALYSIS
  /VARIABLES=wh_ratio
  /CRITERIA=CI(.95).
```

T-Test

Notes

Output Created		18-OCT-2017 13:00:05
Comments		
Input	Active Dataset	DataSet1
	Filter	glyhb <= 7 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	330
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST /TESTVAL=0 /MISSING=ANALYSIS /VARIABLES=wh_ratio /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
Waist/hip ratio	328	.8754	.07157	.00395

One-Sample Test

	Test Value = 0				
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence ... Lower
Waist/hip ratio	221.520	327	.000	.87537	.8676

One-Sample Test

	Test Value = 0	
	95% Confidence Interval of the ...	
	Upper	
Waist/hip ratio	.8831	

```
 FILTER OFF.
USE ALL.
EXECUTE.
EXAMINE VARIABLES=wh_ratio BY gender BY location
  /PLOT=BOXPLOT
  /STATISTICS=NONE
```

Explore

Notes

Output Created		18-OCT-2017 13:06:30
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	403
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=wh_ratio BY gender BY location /PLOT=BOXPLOT /STATISTICS=NONE /NOTOTAL.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.20

Warnings

Text: location Command: EXAMINE
This procedure cannot use string variables longer than 8 bytes.
The values will be truncated.

gender*location

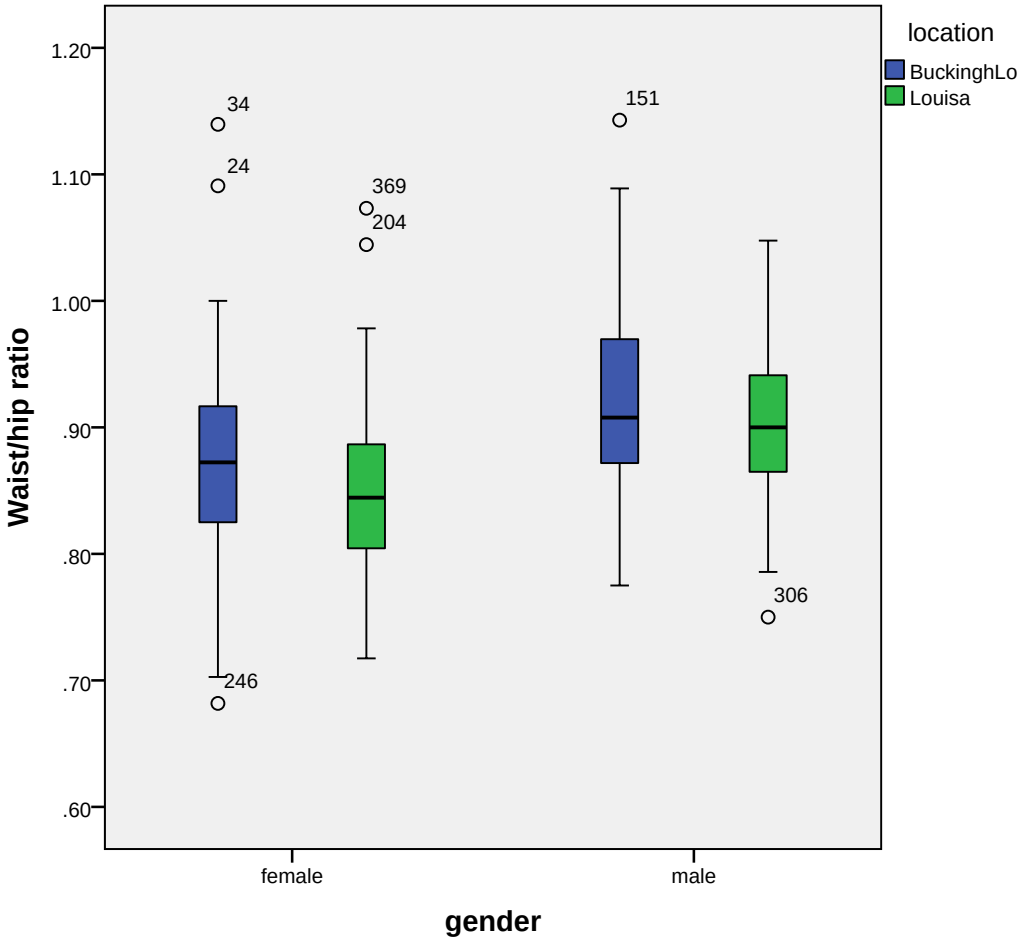
Case Processing Summary

			Cases				
			Valid		Missing		Total
	gender	location	N	Percent	N	Percent	N
Waist/hip ratio	female	Buckingh	114	100.0%	0	0.0%	114
		Louisa	119	99.2%	1	0.8%	120
	male	Buckingh	86	100.0%	0	0.0%	86
		Louisa	82	98.8%	1	1.2%	83

Case Processing Summary

			Cases
			Total
	gender	location	Percent
Waist/hip ratio	female	Buckingh	100.0%
		Louisa	100.0%
	male	Buckingh	100.0%
		Louisa	100.0%

Waist/hip ratio


location
BuckinghLo
Louisa
Waist/hip ratio
1.20
1.10
1.00
.90
.80
.70
.60
34
24
369
204
151
306
246
female
male
gender