

GET DATA

>Error # 541

>A procedure command has appeared before a file has been defined. The run
>needs a DATA LIST, GET, END FILE, MATRIX DATA, or some other command which
>defines cases or a matrix.

>Execution of this command stops.

/TYPE=TXT

/FILE='D:\cochran_c_test\student_por_spss_clean.csv'

/ENCODING='UTF8'

/DELCASE=LINE

/DELIMITERS=" , "

/QUALIFIER=' "'

/ARRANGEMENT=DELIMITED

/FIRSTCASE=2

/IMPORTCASE=ALL

/VARIABLES=

studytime F1.0

G3 F2.0

sex A1

internet A3

higher A3

schoolsup A3

famsup A3.

CACHE.

EXECUTE.

DATASET NAME CochranClean WINDOW=FRONT.

Dataset Name

Warnings

The active dataset will replace the existing dataset named
CochranClean.

VALUE LABELS studytime

1 '<2 hours'

2 '2 to 5 hours'

3 '5 to 10 hours'

4 '>10 hours'.

FORMATS studytime G3 (F8.0).

EXECUTE .

TITLE 'Cochran C Test SPSS Import Check' .

Cochran C Test SPSS Import Check

```
FREQUENCIES VARIABLES=studytime
  /ORDER=ANALYSIS.
```

Frequencies

Statistics

studytime

N	Valid	649
	Missing	0

studytime

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	<2 hours	212	32.7	32.7	32.7
	2 to 5 hours	305	47.0	47.0	79.7
	5 to 10 hours	97	14.9	14.9	94.6
	>10 hours	35	5.4	5.4	100.0
Total		649	100.0	100.0	

```
DESCRIPTIVES VARIABLES=G3 studytime
  /STATISTICS=MEAN STDDEV MIN MAX.
```

Descriptives

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
G3	649	0	19	11.91	3.231
studytime	649	1	4	1.93	.830
Valid N (listwise)	649				

```
COMPUTE original_row = $CASENUM.
EXECUTE.
```

```
DATASET COPY CochranFullSample.
DATASET COPY CochranBalancedSample.
```

```
* =====.
* A. FULL SAMPLE COCHRAN C-STYLE DIAGNOSTIC.
```

Cochran C Test SPSS Import Check

* Unequal n: 212, 305, 97, 35.
* This is a diagnostic/sensitivity result, not the strict balanced test.
* =====.

DATASET ACTIVATE CochranFullSample.
TITLE 'Full Sample Cochran C Style Diagnostic'.

Full Sample Cochran C Style Diagnostic

AGGREGATE

```
/OUTFILE=* MODE=REPLACE  
/BREAK=studytime  
/n_group=N(G3)  
/mean_G3=MEAN(G3)  
/median_G3=MEDIAN(G3)  
/sd_G3=SD(G3)  
/min_G3=MIN(G3)  
/max_G3=MAX(G3).
```

```
COMPUTE variance_G3 = sd_G3 ** 2.  
EXECUTE.
```

AGGREGATE

```
/OUTFILE=* MODE=ADDVARIABLES  
/BREAK=  
/sum_variances=SUM(variance_G3)  
/largest_variance=MAX(variance_G3).
```

```
COMPUTE variance_share = variance_G3 / sum_variances.  
COMPUTE is_largest_variance = (variance_G3 = largest_variance).  
COMPUTE cochrans_c_full = largest_variance / sum_variances.
```

```
FORMATS mean_G3 median_G3 sd_G3 variance_G3 variance_share sum_variances large  
st_variance cochrans_c_full (F10.4).
```

VARIABLE LABELS

```
n_group 'Number of cases in studytime group'  
variance_G3 'Group sample variance of G3'  
variance_share 'Group variance divided by sum of group variances'  
is_largest_variance '1 if group has largest variance'  
cochrans_c_full 'Full sample Cochran C style statistic'.
```

EXECUTE.

```
LIST VARIABLES=studytime n_group mean_G3 median_G3 sd_G3 variance_G3 variance_  
share is_largest_variance sum_variances largest_variance cochrans_c_full  
/CASES=FROM 1 TO 4.
```

List

Full Sample Cochran C Style Diagnostic

Full Sample Cochran C Style Diagnostic

studytime	n_group	mean_G3	median_G3	sd_G3	variance_G3	variance_share	is_largest_variance
1	212	10.8443	11.0000	3.2186	10.3595	.2848	
.00	36.3699	10.5179		.2892			
2	305	12.0918	12.0000	3.2431	10.5179	.2892	1
.00	36.3699	10.5179		.2892			
3	97	13.2268	13.0000	2.5021	6.2605	.1721	
.00	36.3699	10.5179		.2892			
4	35	13.0571	13.0000	3.0384	9.2319	.2538	
.00	36.3699	10.5179		.2892			

Number of cases read: 4 Number of cases listed: 4

SAVE TRANSLATE

/TYPE=CSV

/OUTFILE='D:\cochran_c_test\cochran_c_spss_full_group_stats.csv'

/REPLACE

/FIELDNAMES

/CELLS=VALUES.

```
* =====.
* B. CLASSIC BALANCED COCHRAN C TEST.
* Takes first 35 records from each studytime group.
* This matches the deterministic R/Python balanced sample.
* =====.
```

DATASET ACTIVATE CochranBalancedSample.

TITLE 'Classic Balanced Cochran C Test'.

Classic Balanced Cochran C Test

```
SORT CASES BY studytime original_row.  
  
DO IF ($CASENUM = 1 OR studytime <> LAG(studytime)).  
    COMPUTE group_order = 1.  
ELSE.  
    COMPUTE group_order = LAG(group_order) + 1.  
END IF.  
EXECUTE.  
  
SELECT IF group_order <= 35.  
EXECUTE.  
  
TITLE 'Balanced Sample Check Each Group n 35'.
```

Balanced Sample Check Each Group n 35

```
FREQUENCIES VARIABLES=studytime  
  /ORDER=ANALYSIS.
```

Frequencies

[CochranBalancedSample]

Statistics

studytime

N	Valid	140
	Missing	0

studytime

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	<2 hours	35	25.0	25.0	25.0
	2 to 5 hours	35	25.0	25.0	50.0
	5 to 10 hours	35	25.0	25.0	75.0
	>10 hours	35	25.0	25.0	100.0
	Total	140	100.0	100.0	

AGGREGATE

```
/OUTFILE=* MODE=REPLACE  
/BREAK=studytime  
/n_group=N(G3)  
/mean_G3=MEAN(G3)  
/median_G3=MEDIAN(G3)  
/sd_G3=SD(G3)  
/min_G3=MIN(G3)  
/max_G3=MAX(G3).
```

```
COMPUTE variance_G3 = sd_G3 ** 2.
```

```
EXECUTE.
```

AGGREGATE

```
/OUTFILE=* MODE=ADDVARIABLES  
/BREAK=  
/sum_variances=SUM(variance_G3)  
/largest_variance=MAX(variance_G3).
```

Balanced Sample Check Each Group n 35

```
COMPUTE variance_share = variance_G3 / sum_variances.
COMPUTE is_largest_variance = (variance_G3 = largest_variance).
COMPUTE cochrans_c_balanced = largest_variance / sum_variances.
```

```
FORMATS mean_G3 median_G3 sd_G3 variance_G3 variance_share sum_variances largest_variance cochrans_c_balanced (F10.4).
```

VARIABLE LABELS

```
n_group 'Number of cases in balanced studytime group'
variance_G3 'Balanced group sample variance of G3'
variance_share 'Group variance divided by sum of group variances'
is_largest_variance '1 if group has largest variance'
cochrans_c_balanced 'Classic balanced Cochran C statistic'.
```

EXECUTE.

```
LIST VARIABLES=studytime n_group mean_G3 median_G3 sd_G3 variance_G3 variance_share is_largest_variance sum_variances largest_variance cochrans_c_balanced
/CASES=FROM 1 TO 4.
```

List

studytime	n_group	mean_G3	median_G3	sd_G3	variance_G3	variance_share	is_largest_variance
1	35	12.2286	12.0000	2.3147	5.3580	.2482	
.00	21.5849	9.2319		.4277			
2	35	13.1429	13.0000	1.7681	3.1261	.1448	
.00	21.5849	9.2319		.4277			
3	35	12.8857	13.0000	1.9670	3.8689	.1792	
.00	21.5849	9.2319		.4277			
4	35	13.0571	13.0000	3.0384	9.2319	.4277	1
.00	21.5849	9.2319		.4277			

Number of cases read: 4 Number of cases listed: 4

SAVE TRANSLATE

Balanced Sample Check Each Group n 35

```
/TYPE=CSV  
/OUTFILE='D:\cochran_c_test\cochran_c_spss_balanced_group_stats.csv'  
/REPLACE  
/FIELDNAMES  
/CELLS=VALUES.
```

```
* =====  
* C. EXPORT.  
* =====
```

OUTPUT EXPORT

```
/CONTENTS EXPORT=VISIBLE  
/PDF DOCUMENTFILE='D:\cochran_c_test\cochran_c_test_SPSS_output_ONLY.pdf'  
/NOTESCAPTIONS=YES.
```

Output Export

Warnings

The name NOTESCAPTIONS is not a recognized subcommand.

Execution of this command stops.
