

```
/* SAS program for testing homogeneity of multinomial */
/* proportions. 67 male and 67 female university */
/* sports participants were asked about their reasons */
/* for being involved in sports. HH: high social */
/* comparison/high mastery, HL: high social */
/* comparison/low mastery, etc. */
```

```
options nocenter ls=72;
```

```
data;
```

```
input sex $ reason $ y;
```

```
cards;
```

```
f hh 14
```

```
f hl 7
```

```
f lh 21
```

```
f ll 25
```

```
m hh 31
```

```
m hl 18
```

```
m lh 5
```

```
m ll 13
```

```
;
```

```
proc freq;
```

```
tables sex*reason / chisq expected;
```

```
weight y;
```

```
run;
```

The FREQ Procedure

Table of sex by reason

		reason				
sex	Frequency	hh	hl	lh	ll	Total
	Expected					
	Percent					
	Row Pct					
	Col Pct					
f		14	7	21	25	67
		22.5	12.5	13	19	
		10.45	5.22	15.67	18.66	50.00
		20.90	10.45	31.34	37.31	
		31.11	28.00	80.77	65.79	
m		31	18	5	13	67
		22.5	12.5	13	19	
		23.13	13.43	3.73	9.70	50.00
		46.27	26.87	7.46	19.40	
		68.89	72.00	19.23	34.21	
Total		45	25	26	38	134
		33.58	18.66	19.40	28.36	100.00

Statistics for Table of sex by reason

Statistic	DF	Value	Prob
Chi-Square	3	24.8978	<.0001
Likelihood Ratio Chi-Square	3	26.0362	<.0001
Mantel-Haenszel Chi-Square	1	16.2249	<.0001
Phi Coefficient		0.4311	
Contingency Coefficient		0.3958	
Cramer's V		0.4311	

Sample Size = 134