

```

DATASET ACTIVATE DataSet1.
SAVE OUTFILE='/Users/hunghoang/Desktop/data12age-edu.sav'
/COMPRESSED.
CROSSTABS
  /TABLES=area BY gender edufather edumother BY year
  /FORMAT=AVALUE TABLES
  /STATISTICS=CHISQ
  /CELLS=COUNT ROW COLUMN TOTAL
  /COUNT ROUND CELL.

```

Crosstabs

Notes

Output Created		18-OCT-2023 23:58:12
Comments		
Input	Data	/Users/hunghoang/Desktop/data12age-edu....
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4773
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each table are based on all the cases with valid data in the specified range(s) for all variables in each table.
Syntax		CROSSTABS /TABLES=area BY gender edufather edumother BY year /FORMAT=AVALUE TABLES /STATISTICS=CHISQ /CELLS=COUNT ROW COLUMN TOTAL /COUNT ROUND CELL.

Notes

Resources	Processor Time	00:00:00.04
	Elapsed Time	00:00:00.00
	Dimensions Requested	3
	Cells Available	112347

[DataSet1] /Users/hunghoang/Desktop/data12age-edu.sav

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
area * gender * year	4773	100.0%	0	0.0%	4773	100.0%
area * Edu-Fa * year	4773	100.0%	0	0.0%	4773	100.0%
area * Edu-Mo * year	4773	100.0%	0	0.0%	4773	100.0%

area * gender * year

Crosstab

year				gender		Total
				female	male	
1989	area	F- area	Count	121	124	245
			% within area	49.4%	50.6%	100.0%
			% within gender	40.2%	44.6%	42.3%
			% of Total	20.9%	21.4%	42.3%
		F+ area	Count	180	154	334
			% within area	53.9%	46.1%	100.0%
			% within gender	59.8%	55.4%	57.7%
			% of Total	31.1%	26.6%	57.7%
	Total		Count	301	278	579
			% within area	52.0%	48.0%	100.0%
			% within gender	100.0%	100.0%	100.0%
			% of Total	52.0%	48.0%	100.0%
2003	area	F- area	Count	202	156	358
			% within area	56.4%	43.6%	100.0%
			% within gender	27.0%	25.5%	26.3%
			% of Total	14.8%	11.5%	26.3%

Crosstab

vear				gender		Total
				female	male	
2012	F+ area	Count		547	456	1003
		% within area		54.5%	45.5%	100.0%
		% within gender		73.0%	74.5%	73.7%
		% of Total		40.2%	33.5%	73.7%
	Total	Count		749	612	1361
		% within area		55.0%	45.0%	100.0%
		% within gender		100.0%	100.0%	100.0%
		% of Total		55.0%	45.0%	100.0%
	area F- area	Count		272	265	537
		% within area		50.7%	49.3%	100.0%
		% within gender		25.0%	25.9%	25.5%
		% of Total		12.9%	12.6%	25.5%
	F+ area	Count		814	758	1572
		% within area		51.8%	48.2%	100.0%
		% within gender		75.0%	74.1%	74.5%
		% of Total		38.6%	35.9%	74.5%
	Total	Count		1086	1023	2109
		% within area		51.5%	48.5%	100.0%
		% within gender		100.0%	100.0%	100.0%
		% of Total		51.5%	48.5%	100.0%
2019	area F- area	Count		141	118	259
		% within area		54.4%	45.6%	100.0%
		% within gender		38.0%	33.4%	35.8%
		% of Total		19.5%	16.3%	35.8%
	F+ area	Count		230	235	465
		% within area		49.5%	50.5%	100.0%
		% within gender		62.0%	66.6%	64.2%
		% of Total		31.8%	32.5%	64.2%
	Total	Count		371	353	724
		% within area		51.2%	48.8%	100.0%
		% within gender		100.0%	100.0%	100.0%
		% of Total		51.2%	48.8%	100.0%
Total	area F- area	Count		736	663	1399
		% within area		52.6%	47.4%	100.0%

Crosstab

year		gender		Total
		female	male	
F+ area	% within gender	29.4%	29.3%	29.3%
	% of Total	15.4%	13.9%	29.3%
	Count	1771	1603	3374
	% within area	52.5%	47.5%	100.0%
	% within gender	70.6%	70.7%	70.7%
	% of Total	37.1%	33.6%	70.7%
Total	Count	2507	2266	4773
	% within area	52.5%	47.5%	100.0%
	% within gender	100.0%	100.0%	100.0%
	% of Total	52.5%	47.5%	100.0%

Chi-Square Tests

year		Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
1989	Pearson Chi-Square	1.149 ^c	1	.284	.313	.162
	Continuity Correction ^b	.975	1	.323		
	Likelihood Ratio	1.149	1	.284		
	Fisher's Exact Test					
	N of Valid Cases	579				
2003	Pearson Chi-Square	.380 ^d	1	.538	.578	.290
	Continuity Correction ^b	.308	1	.579		
	Likelihood Ratio	.381	1	.537		
	Fisher's Exact Test					
	N of Valid Cases	1361				
2012	Pearson Chi-Square	.204 ^e	1	.651	.653	.344
	Continuity Correction ^b	.162	1	.688		
	Likelihood Ratio	.204	1	.651		
	Fisher's Exact Test					
	N of Valid Cases	2109				
2019	Pearson Chi-Square	1.650 ^f	1	.199	.215	.114
	Continuity Correction ^b	1.457	1	.227		
	Likelihood Ratio	1.651	1	.199		
	Fisher's Exact Test					
	N of Valid Cases	724				

Chi-Square Tests

year		Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Total	Pearson Chi-Square	.006 ^a	1	.940		
	Continuity Correction ^b	.002	1	.965		
	Likelihood Ratio	.006	1	.940		
	Fisher's Exact Test				.949	.483
	N of Valid Cases	4773				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 664.18.

b. Computed only for a 2x2 table

c. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 117.63.

d. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 160.98.

e. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 260.48.

f. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 126.28.

area * Edu-Fa * year

Crosstab

year				Edu-Fa			Total
				completed primary school	completed secondary school	Completed high school	
1989	area	F- area	Count	33	66	146	245
			% within area	13.5%	26.9%	59.6%	100.0%
			% within Edu-Fa	36.3%	44.0%	43.2%	42.3%
			% of Total	5.7%	11.4%	25.2%	42.3%
	F+ area		Count	58	84	192	334
			% within area	17.4%	25.1%	57.5%	100.0%
			% within Edu-Fa	63.7%	56.0%	56.8%	57.7%
			% of Total	10.0%	14.5%	33.2%	57.7%
	Total		Count	91	150	338	579
			% within area	15.7%	25.9%	58.4%	100.0%
			% within Edu-Fa	100.0%	100.0%	100.0%	100.0%
			% of Total	15.7%	25.9%	58.4%	100.0%
2003	area	F- area	Count	53	89	216	358
			% within area	14.8%	24.9%	60.3%	100.0%

Crosstab

vear				Edu-Fa			Total
				completed primary school	completed secondary school	Completed high school	
2012	area	F+ area	% within Edu-Fa	25.2%	25.1%	27.1%	26.3%
			% of Total	3.9%	6.5%	15.9%	26.3%
			Count	157	265	581	1003
			% within area	15.7%	26.4%	57.9%	100.0%
			% within Edu-Fa	74.8%	74.9%	72.9%	73.7%
			% of Total	11.5%	19.5%	42.7%	73.7%
		Total	Count	210	354	797	1361
			% within area	15.4%	26.0%	58.6%	100.0%
			% within Edu-Fa	100.0%	100.0%	100.0%	100.0%
			% of Total	15.4%	26.0%	58.6%	100.0%
	area	F- area	Count	79	129	329	537
			% within area	14.7%	24.0%	61.3%	100.0%
			% within Edu-Fa	25.3%	25.5%	25.5%	25.5%
			% of Total	3.7%	6.1%	15.6%	25.5%
		F+ area	Count	233	377	962	1572
			% within area	14.8%	24.0%	61.2%	100.0%
			% within Edu-Fa	74.7%	74.5%	74.5%	74.5%
			% of Total	11.0%	17.9%	45.6%	74.5%
		Total	Count	312	506	1291	2109
			% within area	14.8%	24.0%	61.2%	100.0%
			% within Edu-Fa	100.0%	100.0%	100.0%	100.0%
			% of Total	14.8%	24.0%	61.2%	100.0%
2019	area	F- area	Count	49	63	147	259
			% within area	18.9%	24.3%	56.8%	100.0%
			% within Edu-Fa	42.2%	35.8%	34.0%	35.8%
			% of Total	6.8%	8.7%	20.3%	35.8%
	area	F+ area	Count	67	113	285	465
			% within area	14.4%	24.3%	61.3%	100.0%

Crosstab

vear				Edu-Fa			Total
				completed primary school	completed secondary school	Completed high school	
Total	% within Edu-Fa			57.8%	64.2%	66.0%	64.2%
	% of Total			9.3%	15.6%	39.4%	64.2%
	Count			116	176	432	724
	% within area			16.0%	24.3%	59.7%	100.0%
	% within Edu-Fa			100.0%	100.0%	100.0%	100.0%
	% of Total			16.0%	24.3%	59.7%	100.0%
Total	area	F- area	Count	214	347	838	1399
			% within area	15.3%	24.8%	59.9%	100.0%
			% within Edu-Fa	29.4%	29.3%	29.3%	29.3%
			% of Total	4.5%	7.3%	17.6%	29.3%
	F+ area		Count	515	839	2020	3374
			% within area	15.3%	24.9%	59.9%	100.0%
			% within Edu-Fa	70.6%	70.7%	70.7%	70.7%
			% of Total	10.8%	17.6%	42.3%	70.7%
	Total		Count	729	1186	2858	4773
			% within area	15.3%	24.8%	59.9%	100.0%
			% within Edu-Fa	100.0%	100.0%	100.0%	100.0%
			% of Total	15.3%	24.8%	59.9%	100.0%

Chi-Square Tests

year		Value	df	Asymp. Sig. (2-sided)
1989	Pearson Chi-Square	1.647 ^b	2	.439
	Likelihood Ratio	1.667	2	.434
	Linear-by-Linear Association	.910	1	.340
	N of Valid Cases	579		
2003	Pearson Chi-Square	.632 ^c	2	.729
	Likelihood Ratio	.633	2	.729
	Linear-by-Linear Association	.505	1	.477
	N of Valid Cases	1361		
2012	Pearson Chi-Square	.004 ^d	2	.998
	Likelihood Ratio	.004	2	.998
	Linear-by-Linear Association	.002	1	.961
	N of Valid Cases	2109		
2019	Pearson Chi-Square	2.685 ^e	2	.261
	Likelihood Ratio	2.641	2	.267
	Linear-by-Linear Association	2.399	1	.121
	N of Valid Cases	724		
Total	Pearson Chi-Square	.002 ^a	2	.999
	Likelihood Ratio	.002	2	.999
	Linear-by-Linear Association	.000	1	.999
	N of Valid Cases	4773		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 213.68.

b. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 38.51.

c. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 55.24.

d. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 79.44.

e. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 41.50.

area * Edu-Mo * year

Crosstab

				Edu-Mo			Total
				completed primary school	completed secondary school	Completed high school	
year	area	F- area	Count				
1989	area	F- area	Count	64	84	97	245
			% within area	26.1%	34.3%	39.6%	100.0%
			% within Edu-Mo	46.7%	43.1%	39.3%	42.3%
			% of Total	11.1%	14.5%	16.8%	42.3%
		F+ area	Count	73	111	150	334
			% within area	21.9%	33.2%	44.9%	100.0%
			% within Edu-Mo	53.3%	56.9%	60.7%	57.7%
			% of Total	12.6%	19.2%	25.9%	57.7%
	Total		Count	137	195	247	579
			% within area	23.7%	33.7%	42.7%	100.0%
			% within Edu-Mo	100.0%	100.0%	100.0%	100.0%
			% of Total	23.7%	33.7%	42.7%	100.0%
2003	area	F- area	Count	100	104	154	358
			% within area	27.9%	29.1%	43.0%	100.0%
			% within Edu-Mo	24.8%	26.1%	27.5%	26.3%
			% of Total	7.3%	7.6%	11.3%	26.3%
		F+ area	Count	303	295	405	1003
			% within area	30.2%	29.4%	40.4%	100.0%
			% within Edu-Mo	75.2%	73.9%	72.5%	73.7%
			% of Total	22.3%	21.7%	29.8%	73.7%
	Total		Count	403	399	559	1361
			% within area	29.6%	29.3%	41.1%	100.0%
			% within Edu-Mo	100.0%	100.0%	100.0%	100.0%
			% of Total	29.6%	29.3%	41.1%	100.0%
2012	area	F- area	Count	155	147	235	537
			% within area	28.9%	27.4%	43.8%	100.0%
			% within Edu-Mo	25.4%	24.5%	26.1%	25.5%
			% of Total	7.3%	7.0%	11.1%	25.5%
		F+ area	Count	456	452	664	1572
			% within area	29.0%	28.8%	42.2%	100.0%

Crosstab

year				Edu-Mo			Total
				completed primary school	completed secondary school	Completed high school	
2019	Total		% within Edu-Mo	74.6%	75.5%	73.9%	74.5%
			% of Total	21.6%	21.4%	31.5%	74.5%
			Count	611	599	899	2109
			% within area	29.0%	28.4%	42.6%	100.0%
			% within Edu-Mo	100.0%	100.0%	100.0%	100.0%
			% of Total	29.0%	28.4%	42.6%	100.0%
	area	F- area	Count	66	64	129	259
			% within area	25.5%	24.7%	49.8%	100.0%
			% within Edu-Mo	35.5%	34.4%	36.6%	35.8%
			% of Total	9.1%	8.8%	17.8%	35.8%
		F+ area	Count	120	122	223	465
			% within area	25.8%	26.2%	48.0%	100.0%
			% within Edu-Mo	64.5%	65.6%	63.4%	64.2%
			% of Total	16.6%	16.9%	30.8%	64.2%
	Total		Count	186	186	352	724
			% within area	25.7%	25.7%	48.6%	100.0%
			% within Edu-Mo	100.0%	100.0%	100.0%	100.0%
			% of Total	25.7%	25.7%	48.6%	100.0%
	Total	area	Count	385	399	615	1399
			% within area	27.5%	28.5%	44.0%	100.0%
			% within Edu-Mo	28.8%	28.9%	29.9%	29.3%
			% of Total	8.1%	8.4%	12.9%	29.3%
		F+ area	Count	952	980	1442	3374
			% within area	28.2%	29.0%	42.7%	100.0%
			% within Edu-Mo	71.2%	71.1%	70.1%	70.7%
			% of Total	19.9%	20.5%	30.2%	70.7%
	Total		Count	1337	1379	2057	4773
			% within area	28.0%	28.9%	43.1%	100.0%
			% within Edu-Mo	100.0%	100.0%	100.0%	100.0%
			% of Total	28.0%	28.9%	43.1%	100.0%

Chi-Square Tests

year		Value	df	Asymp. Sig. (2-sided)
1989	Pearson Chi-Square	2.071^b	2	.355
	Likelihood Ratio	2.069	2	.355
	Linear-by-Linear Association	2.067	1	.151
	N of Valid Cases	579		
2003	Pearson Chi-Square	.920^c	2	.631
	Likelihood Ratio	.922	2	.631
	Linear-by-Linear Association	.918	1	.338
	N of Valid Cases	1361		
2012	Pearson Chi-Square	.488^d	2	.783
	Likelihood Ratio	.489	2	.783
	Linear-by-Linear Association	.159	1	.690
	N of Valid Cases	2109		
2019	Pearson Chi-Square	.275^e	2	.872
	Likelihood Ratio	.275	2	.871
	Linear-by-Linear Association	.114	1	.736
	N of Valid Cases	724		
Total	Pearson Chi-Square	.608^a	2	.738
	Likelihood Ratio	.607	2	.738
	Linear-by-Linear Association	.528	1	.467
	N of Valid Cases	4773		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 391.88.

b. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 57.97.

c. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 104.95.

d. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 152.52.

e. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 66.54.