

```

GET
FILE='C:\Users\tzkeith\Documents\Regression Book 3\Part 2\Chap 22 Latent int
eractions MLM\MLM\NELS SEM\homework smaller for mplus conversion.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.
GET
FILE='C:\Users\tzkeith\Documents\Regression Book 3\Part 2\Chap 22 Latent int
eractions MLM\MLM\NELS SEM\homework smaller for mplus conversion 2.sav'.
DATASET NAME DataSet2 WINDOW=FRONT.
DATASET ACTIVATE DataSet1.
DATASET CLOSE DataSet2.

SAVE OUTFILE='C:\Users\tzkeith\Documents\Regression Book 3\Part 2\Chap 22 Late
nt interactions '+
    'MLM\MLM\NELS SEM\homework smaller for mplus conversion 3.sav'
/DROP=stu_id sex race bytxrstd bytxmstd bytxsstd bytxhstd bypared income par
occ eng92 math92
    sci92 soc92
/COMPRESSED.
GET
FILE='C:\Users\tzkeith\Documents\Regression Book 3\Part 2\Chap 22 Latent int
eractions MLM\MLM\NELS SEM\homework smaller for mplus conversion 3.sav'.
DATASET NAME DataSet3 WINDOW=FRONT.
SELECT IF (SCH_ID NE 7012).
EXECUTE.

```

SELECT Out school 7012, where no one had test scores

```

MEANS TABLES=f22xrstd f22xmstd f22xsstd f22xhstd BY sch_id
/CELLS=MEAN COUNT STDDEV.

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Means

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[DataSet3] C:\Users\tzkeith\Documents\Regression Book 3\Part 2\Chap 22 Latent
interactions MLM\MLM\NELS SEM\homework smaller for mplus conversion 3.sav

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Case Processing Summary

	Included		Cases Excluded		Total	
	N	Percent	N	Percent	N	Percent
f22xrstd READING STANDARDIZED SCORE * sch_id School ID	4063	100.0%	0	0.0%	4063	100.0%
f22xmstd MATHEMATICS STANDARDIZED SCORE * sch_id School ID	4063	100.0%	0	0.0%	4063	100.0%
f22xsstd SCIENCE STANDARDIZED SCORE * sch_id School ID	4063	100.0%	0	0.0%	4063	100.0%
f22xhstd HISTORY/CIT/GEOG STANDARDIZED SCORE * sch_id School ID	4063	100.0%	0	0.0%	4063	100.0%

Report

sch_id School ID		f22xrstd READING STANDARDIZE D SCORE	f22xmstd MATHEMATIC S STANDARDIZE D SCORE	f22xsstd SCIENCE STANDARDIZE D SCORE	f22xhstd HISTORY/CIT/ GEOG STANDARDIZE D SCORE
6044.00	Mean	41.5123	39.9132	39.9227	39.1618
	N	22	22	22	22
	Std. Deviation	46.10606	45.72090	45.76712	45.64719
6053.00	Mean	51.8860	50.8837	52.1997	53.5237
	N	30	30	30	30
	Std. Deviation	30.17789	29.71915	29.78427	30.02879
7042.00	Mean	32.4384	33.8808	28.9792	31.0044
	N	25	25	25	25
	Std. Deviation	40.81153	41.04390	49.15269	50.08802
7089.00	Mean	17.4530	16.4861	17.1500	17.9430
	N	23	23	23	23
	Std. Deviation	63.22949	62.62760	63.15710	63.59912
7109.00	Mean	43.5775	46.4055	44.8560	42.9425
	N	20	20	20	20
	Std. Deviation	34.33405	35.24943	34.79101	34.52373

Report

sch_id School ID		f22xrstd READING STANDARDIZE D SCORE	f22xmstd MATHEMATIC S STANDARDIZE D SCORE	f22xsstd SCIENCE STANDARDIZE D SCORE	f22xhstd HISTORY/CIT/ GEOG STANDARDIZE D SCORE
7133.00	Mean	30.5342	32.2942	33.7667	31.5192
	N	24	24	24	24
	Std. Deviation	50.82705	51.61416	52.18637	51.11446
7194.00	Mean	22.3126	22.6374	24.6287	21.5974
	N	23	23	23	23
	Std. Deviation	57.61512	57.71361	58.82859	57.40760
7219.00	Mean	46.5736	47.4628	49.1403	48.6387
	N	39	39	39	39
	Std. Deviation	25.59598	25.92854	26.16640	25.60665
7220.00	Mean	39.7443	37.1838	38.7676	41.5190
	N	21	21	21	21
	Std. Deviation	46.89851	46.21175	46.50558	47.54522
7239.00	Mean	48.7950	46.3885	46.9500	44.2740
	N	20	20	20	20
	Std. Deviation	10.18210	10.26800	10.63380	10.30769
7320.00	Mean	-2.9750	-3.3590	-2.3895	-2.4695
	N	20	20	20	20
	Std. Deviation	72.90192	72.22556	72.98629	73.16045
7369.00	Mean	48.5985	50.9490	50.0020	50.0710
	N	20	20	20	20
	Std. Deviation	35.47830	36.16548	35.93903	35.91908
7390.00	Mean	44.9355	46.9945	47.9505	43.3190
	N	20	20	20	20
	Std. Deviation	35.02831	35.38390	35.40989	34.96293
7415.00	Mean	14.8777	15.1291	16.8373	14.9905
	N	22	22	22	22
	Std. Deviation	63.66011	64.07053	64.77851	63.60678
7431.00	Mean	54.6205	57.7565	56.3780	54.8970
	N	20	20	20	20
	Std. Deviation	9.36887	8.42870	9.49738	6.90059

Report

sch_id School ID		f22xrstd READING STANDARDIZE D SCORE	f22xmstd MATHEMATIC S STANDARDIZE D SCORE	f22xsstd SCIENCE STANDARDIZE D SCORE	f22xhstd HISTORY/CIT/ GEOG STANDARDIZE D SCORE
7435.00	Mean	43.6438	44.3567	43.2308	43.4329
	N	24	24	24	24
	Std. Deviation	44.74799	45.06117	44.58686	44.46123
7440.00	Mean	27.5933	27.0795	27.1371	27.3286
	N	21	21	21	21
	Std. Deviation	53.79709	53.41299	53.39402	53.82303
7475.00	Mean	8.7343	10.3465	10.0726	6.6643
	N	23	23	23	23
	Std. Deviation	73.18577	74.23258	74.11245	71.76521
7494.00	Mean	44.3185	36.7545	37.1475	33.9780
	N	20	20	20	20
	Std. Deviation	35.15516	47.25193	47.04872	46.34889
7609.00	Mean	31.0535	30.4625	32.7780	31.1505
	N	20	20	20	20
	Std. Deviation	56.45446	56.53889	57.17596	56.41423
7631.00	Mean	31.6390	29.1600	30.7950	30.6295
	N	20	20	20	20
	Std. Deviation	56.86329	56.09341	56.62656	56.43852
7716.00	Mean	53.6581	54.6395	51.0252	51.6171
	N	21	21	21	21
	Std. Deviation	9.49889	11.75674	10.76277	9.69409
7726.00	Mean	45.2768	43.6786	46.3023	46.4709
	N	22	22	22	22
	Std. Deviation	33.69253	33.66005	34.19901	33.63988
7740.00	Mean	25.9220	29.4435	28.2580	27.4315
	N	20	20	20	20
	Std. Deviation	54.28435	56.03254	55.59979	54.98451
7786.00	Mean	39.1336	40.8836	39.0068	37.6455
	N	22	22	22	22
	Std. Deviation	45.65995	46.10373	45.85354	45.38622

Report

sch_id School ID		f22xrstd READING STANDARDIZE D SCORE	f22xmstd MATHEMATIC S STANDARDIZE D SCORE	f22xsstd SCIENCE STANDARDIZE D SCORE	f22xhstd HISTORY/CIT/ GEOG STANDARDIZE D SCORE
7793.00	Mean	50.1570	54.5030	52.2170	49.8104
	N	23	23	23	23
	Std. Deviation	10.65725	9.05637	9.79849	10.71849
7795.00	Mean	49.7676	47.7719	48.1781	50.2081
	N	21	21	21	21
	Std. Deviation	10.62968	11.21566	11.25970	10.36613
7862.00	Mean	7.7400	10.8805	8.5705	9.6281
	N	21	21	21	21
	Std. Deviation	69.54965	71.49664	70.08365	70.63622
7864.00	Mean	27.4517	28.9183	22.1678	23.0191
	N	23	23	23	23
	Std. Deviation	59.99543	60.64785	65.85312	66.14576
7902.00	Mean	48.0995	49.9380	51.0370	47.8010
	N	20	20	20	20
	Std. Deviation	35.31991	36.12609	35.98697	35.39884
7914.00	Mean	13.3270	3.5800	7.0245	5.5795
	N	20	20	20	20
	Std. Deviation	67.17291	69.42339	71.49839	70.71658
7930.00	Mean	44.5615	45.1750	43.6195	42.9930
	N	20	20	20	20
	Std. Deviation	34.94390	35.15774	34.92018	34.43821
7963.00	Mean	29.7205	29.9765	30.0485	29.4655
	N	20	20	20	20
	Std. Deviation	55.95298	55.91752	56.11322	55.88024
7984.00	Mean	43.4418	43.1027	44.7873	43.3564
	N	22	22	22	22
	Std. Deviation	33.12864	33.23796	33.92464	32.99334
14254.00	Mean	44.8195	46.0971	44.5757	44.5429
	N	21	21	21	21
	Std. Deviation	33.96804	34.52390	34.39919	34.55498

Report

sch_id School ID		f22xrstd READING STANDARDIZE D SCORE	f22xmstd MATHEMATIC S STANDARDIZE D SCORE	f22xsstd SCIENCE STANDARDIZE D SCORE	f22xhstd HISTORY/CIT/ GEOG STANDARDIZE D SCORE
14379.00	Mean	39.0059	40.4052	39.3236	36.0905
	N	44	44	44	44
	Std. Deviation	45.01744	45.46988	45.04175	49.48878
14605.00	Mean	47.3714	48.7614	49.7852	50.7581
	N	21	21	21	21
	Std. Deviation	34.44716	34.85900	34.99671	34.85208
14813.00	Mean	47.1750	43.5855	44.7050	44.9809
	N	22	22	22	22
	Std. Deviation	33.60895	32.95889	33.12178	33.35604
24138.00	Mean	49.8862	50.2024	48.5824	48.5667
	N	21	21	21	21
	Std. Deviation	34.65066	35.16594	35.10696	34.71593
24174.00	Mean	11.0015	10.8680	11.0140	12.9090
	N	20	20	20	20
	Std. Deviation	65.89753	65.84895	65.96235	66.82679
24216.00	Mean	39.6183	38.1229	35.0340	33.9489
	N	35	35	35	35
	Std. Deviation	35.97447	35.21817	42.58110	42.33179
24420.00	Mean	41.5367	40.3267	40.6638	44.4476
	N	21	21	21	21
	Std. Deviation	33.40054	32.74480	32.97841	33.74862
24474.00	Mean	18.8495	18.4420	17.2765	18.0295
	N	20	20	20	20
	Std. Deviation	61.06615	60.55544	59.99966	60.78845
24772.00	Mean	50.5730	49.3895	50.5740	45.8685
	N	20	20	20	20
	Std. Deviation	7.31215	7.47855	9.87552	8.14831
24820.00	Mean	.3309	-.0570	-.6422	3.1248
	N	23	23	23	23
	Std. Deviation	67.48622	67.14041	66.62643	69.28655

Report

sch_id School ID		f22xrstd READING STANDARDIZE D SCORE	f22xmstd MATHEMATIC S STANDARDIZE D SCORE	f22xsstd SCIENCE STANDARDIZE D SCORE	f22xhstd HISTORY/CIT/ GEOG STANDARDIZE D SCORE
25088.00	Mean	29.7868	31.6077	38.0586	36.0982
	N	22	22	22	22
	Std. Deviation	62.40535	63.29414	56.14469	55.49443
25101.00	Mean	30.0715	29.8900	31.2045	32.4915
	N	20	20	20	20
	Std. Deviation	56.45545	56.02979	56.69838	57.10886
25173.00	Mean	5.9535	6.2161	-1.4357	-.9265
	N	23	23	23	23
	Std. Deviation	71.36585	71.52425	73.16524	73.52896
25178.00	Mean	7.5643	9.4533	8.0348	8.4095
	N	21	21	21	21
	Std. Deviation	69.45538	70.55052	69.69831	69.92006
25256.00	Mean	35.6686	36.7168	33.6254	34.9561
	N	28	28	28	28
	Std. Deviation	38.68262	39.14754	38.00242	38.46613
25261.00	Mean	26.3690	21.0324	22.0433	18.8595
	N	21	21	21	21
	Std. Deviation	53.13546	60.38690	60.66374	58.96264
25313.00	Mean	33.6415	33.1130	32.3875	34.3620
	N	20	20	20	20
	Std. Deviation	46.20481	46.06912	45.63163	46.44282
25328.00	Mean	39.2135	38.6830	38.7780	39.2150
	N	20	20	20	20
	Std. Deviation	47.81445	47.77005	47.73919	47.96934
25400.00	Mean	26.4810	27.7152	28.0471	28.2948
	N	21	21	21	21
	Std. Deviation	53.39328	54.00950	54.10538	54.09531
25545.00	Mean	29.9089	30.5039	19.9711	18.1643
	N	28	28	28	28
	Std. Deviation	54.00657	54.47322	63.83252	62.86961

Report

sch_id School ID		f22xrstd READING STANDARDIZE D SCORE	f22xmstd MATHEMATIC S STANDARDIZE D SCORE	f22xsstd SCIENCE STANDARDIZE D SCORE	f22xhstd HISTORY/CIT/ GEOG STANDARDIZE D SCORE
25765.00	Mean	38.7327	39.0477	38.6131	36.7888
	N	26	26	26	26
	Std. Deviation	41.24529	41.29682	41.10983	40.62135
25775.00	Mean	16.6005	20.2355	20.5330	18.4750
	N	20	20	20	20
	Std. Deviation	60.24486	61.85256	61.67205	61.04388
25825.00	Mean	47.4392	52.5421	47.8821	46.4858
	N	24	24	24	24
	Std. Deviation	31.95225	7.17296	31.95298	31.85765
25834.00	Mean	2.6958	4.0068	4.0310	3.3087
	N	31	31	31	31
	Std. Deviation	71.94817	72.87939	72.83020	72.32478
25877.00	Mean	55.8661	58.3530	56.4543	57.1091
	N	23	23	23	23
	Std. Deviation	7.82161	6.28861	9.23569	7.68701
25990.00	Mean	24.4564	20.5816	20.9844	22.1692
	N	25	25	25	25
	Std. Deviation	55.55805	53.53744	53.87806	54.51019
26188.00	Mean	57.3542	57.1906	58.0667	55.0861
	N	33	33	33	33
	Std. Deviation	28.36919	28.51191	28.50303	28.16625
26238.00	Mean	16.8933	18.3271	17.4348	9.7105
	N	21	21	21	21
	Std. Deviation	75.19714	76.11154	75.54980	78.80684
26338.00	Mean	20.4983	27.2513	24.8065	27.3035
	N	23	23	23	23
	Std. Deviation	72.67178	68.32272	67.04338	68.31194
29061.00	Mean	57.8510	61.6335	60.7310	60.3860
	N	20	20	20	20
	Std. Deviation	6.66744	6.42438	5.07297	6.81444

Report

sch_id School ID		f22xrstd READING STANDARDIZE D SCORE	f22xmstd MATHEMATIC S STANDARDIZE D SCORE	f22xsstd SCIENCE STANDARDIZE D SCORE	f22xhstd HISTORY/CIT/ GEOG STANDARDIZE D SCORE
29369.00	Mean	50.9454	50.6615	48.6546	47.7288
	N	26	26	26	26
	Std. Deviation	9.17243	7.16068	7.14626	8.65024
29980.00	Mean	52.9292	54.8077	50.9996	52.6027
	N	26	26	26	26
	Std. Deviation	9.85230	9.12394	10.75807	11.09657
45064.00	Mean	43.0379	41.2461	41.9232	40.5239
	N	28	28	28	28
	Std. Deviation	40.97566	40.76146	41.01122	40.60001
45110.00	Mean	49.1857	49.7524	48.5705	48.4638
	N	21	21	21	21
	Std. Deviation	8.36439	9.36653	8.90315	8.24374
45169.00	Mean	30.4785	29.7920	30.0880	30.3215
	N	20	20	20	20
	Std. Deviation	56.49273	56.24101	56.24682	56.31615
45190.00	Mean	-2.7428	-1.2988	-3.9884	-4.1952
	N	25	25	25	25
	Std. Deviation	74.06303	75.17075	73.34416	73.14958
45270.00	Mean	-8.9872	-14.3596	-15.5948	-12.8852
	N	25	25	25	25
	Std. Deviation	75.23514	76.71117	75.56736	78.11629
45301.00	Mean	47.0848	48.4357	48.7357	47.8124
	N	21	21	21	21
	Std. Deviation	34.68615	35.32952	34.98610	35.06113
45330.00	Mean	20.4391	20.5568	20.9482	20.9741
	N	22	22	22	22
	Std. Deviation	58.37525	58.20380	58.63331	58.46259
45338.00	Mean	7.7227	6.7212	2.4558	-.8323
	N	26	26	26	26
	Std. Deviation	66.45303	65.89446	69.35576	66.94565

Report

sch_id School ID		f22xrstd READING STANDARDIZE D SCORE	f22xmstd MATHEMATIC S STANDARDIZE D SCORE	f22xsstd SCIENCE STANDARDIZE D SCORE	f22xhstd HISTORY/CIT/ GEOG STANDARDIZE D SCORE
45446.00	Mean	8.4114	8.3486	9.4123	9.6159
	N	22	22	22	22
	Std. Deviation	67.76184	67.77628	68.31811	68.54593
45531.00	Mean	13.2391	12.7718	12.3664	15.5795
	N	22	22	22	22
	Std. Deviation	62.68240	62.31186	62.20609	64.02782
45540.00	Mean	-3.4323	-1.0092	-2.9277	-3.2608
	N	26	26	26	26
	Std. Deviation	71.15301	73.08945	71.70392	71.43984
45567.00	Mean	26.4091	27.1117	24.5530	26.0800
	N	23	23	23	23
	Std. Deviation	59.37500	59.76625	58.65041	59.35651
45678.00	Mean	26.2765	25.2091	22.5909	27.3787
	N	23	23	23	23
	Std. Deviation	59.67455	59.04925	57.68885	60.01083
45689.00	Mean	-7.2270	-8.9070	-16.3490	-14.4235
	N	20	20	20	20
	Std. Deviation	77.21439	76.05935	77.11783	78.89705
45700.00	Mean	4.8581	6.5933	6.1210	3.9943
	N	21	21	21	21
	Std. Deviation	67.77289	68.87367	68.58812	67.18352
45768.00	Mean	30.8048	33.1960	31.0556	34.2944
	N	25	25	25	25
	Std. Deviation	49.80102	51.29165	50.33295	51.60300
45788.00	Mean	38.0381	38.8457	38.8852	31.3857
	N	21	21	21	21
	Std. Deviation	46.04496	46.13859	46.56317	54.81215
45981.00	Mean	21.7664	21.6614	21.1927	22.6577
	N	22	22	22	22
	Std. Deviation	59.04355	58.78862	58.78620	59.51821

Report

sch_id School ID		f22xrstd READING STANDARDIZE D SCORE	f22xmstd MATHEMATIC S STANDARDIZE D SCORE	f22xsstd SCIENCE STANDARDIZE D SCORE	f22xhstd HISTORY/CIT/ GEOG STANDARDIZE D SCORE
45994.00	Mean	-85.7030	-85.3722	-85.3604	-85.2874
	N	23	23	23	23
	Std. Deviation	44.11872	45.23045	45.29356	45.43890
46344.00	Mean	49.7949	49.3242	49.9638	49.3482
	N	45	45	45	45
	Std. Deviation	33.38724	33.69954	33.46620	33.29615
46503.00	Mean	39.7976	38.9448	35.7652	38.7814
	N	21	21	21	21
	Std. Deviation	46.96053	46.09833	45.65385	46.48616
46540.00	Mean	51.1262	51.7728	51.1276	50.0103
	N	29	29	29	29
	Std. Deviation	30.57143	30.43281	30.24172	30.13527
46748.00	Mean	34.7573	36.8286	34.4745	34.8205
	N	22	22	22	22
	Std. Deviation	44.30896	44.70191	44.08226	44.09414
46869.00	Mean	-24.1395	-26.1595	-25.2900	-25.5725
	N	20	20	20	20
	Std. Deviation	77.07032	74.99046	75.75099	75.42559
46922.00	Mean	26.5110	24.5670	24.5807	26.8507
	N	30	30	30	30
	Std. Deviation	64.00465	63.23661	63.19400	64.31217
47130.00	Mean	52.6220	52.6852	53.1524	54.6756
	N	25	25	25	25
	Std. Deviation	32.24291	32.41059	32.62664	32.66738
54002.00	Mean	42.1837	43.6619	42.0259	42.3787
	N	32	32	32	32
	Std. Deviation	46.74198	47.05715	46.85168	47.16986
54127.00	Mean	60.9160	62.5160	59.4910	60.7125
	N	20	20	20	20
	Std. Deviation	5.83779	3.80011	5.48429	7.15265

Report

sch_id School ID		f22xrstd READING STANDARDIZE D SCORE	f22xmstd MATHEMATIC S STANDARDIZE D SCORE	f22xsstd SCIENCE STANDARDIZE D SCORE	f22xhstd HISTORY/CIT/ GEOG STANDARDIZE D SCORE
54157.00	Mean	48.3175	48.9046	49.1007	47.9386
	N	28	28	28	28
	Std. Deviation	42.08156	41.93859	42.02576	42.14336
54259.00	Mean	52.1291	53.1677	48.5474	52.5243
	N	35	35	35	35
	Std. Deviation	38.08288	38.49518	37.65171	38.57248
54538.00	Mean	61.5285	63.6515	60.9265	60.6940
	N	20	20	20	20
	Std. Deviation	6.63780	5.18921	6.99747	8.06258
54730.00	Mean	41.0880	44.2785	39.8645	45.3280
	N	20	20	20	20
	Std. Deviation	48.82377	49.46758	48.13222	49.58094
54752.00	Mean	38.5047	45.0164	41.3719	42.1022
	N	36	36	36	36
	Std. Deviation	56.22485	51.87013	50.86432	51.06264
57055.00	Mean	-11.5896	-10.6696	-11.7961	-10.7970
	N	23	23	23	23
	Std. Deviation	78.56014	79.43593	78.41356	79.24555
57733.00	Mean	43.3925	46.7971	40.0104	27.2463
	N	24	24	24	24
	Std. Deviation	44.20207	45.21243	43.70778	66.46322
62488.00	Mean	48.0290	60.2186	61.0719	59.8386
	N	21	21	21	21
	Std. Deviation	34.63858	8.63395	8.45475	7.41237
62821.00	Mean	-99.0000	-99.0000	-99.0000	-99.0000
	N	43	43	43	43
	Std. Deviation	.00000	.00000	.00000	.00000
68038.00	Mean	52.5014	54.9481	53.8452	52.6733
	N	21	21	21	21
	Std. Deviation	9.04884	11.78478	8.58949	10.17596

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68068.00	Mean	11.7641	9.6895	10.9509	11.6695
	N	22	22	22	22
	Std. Deviation	62.09722	60.80833	61.46801	61.73609
68135.00	Mean	-32.6638	-33.3748	-33.6895	-31.5662
	N	21	21	21	21
	Std. Deviation	78.62244	77.85065	77.61517	79.94653
68137.00	Mean	25.6243	18.8848	16.9457	16.9590
	N	21	21	21	21
	Std. Deviation	52.72257	59.04680	58.07560	58.31123
68194.00	Mean	33.7833	32.8248	34.1152	37.1014
	N	21	21	21	21
	Std. Deviation	31.17015	30.77414	31.20683	32.40204
68401.00	Mean	27.1050	30.2840	20.8340	21.1545
	N	20	20	20	20
	Std. Deviation	55.12104	56.26039	62.01271	62.34626
68422.00	Mean	35.6714	33.9523	34.5718	35.4500
	N	22	22	22	22
	Std. Deviation	44.43526	43.93750	44.35800	44.32108
68472.00	Mean	46.5162	48.9390	46.7310	48.7838
	N	21	21	21	21
	Std. Deviation	34.84944	34.81163	34.69987	34.89306
68493.00	Mean	38.3455	41.3805	39.4230	40.4015
	N	20	20	20	20
	Std. Deviation	33.34554	34.49965	33.58354	34.47751
68494.00	Mean	16.3225	15.8130	18.4220	16.0215
	N	20	20	20	20
	Std. Deviation	68.50944	68.27604	69.75932	68.45757
68542.00	Mean	20.6243	21.2295	20.2419	20.3129
	N	21	21	21	21
	Std. Deviation	50.98581	50.99427	50.81797	50.77520

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68602.00	Mean	28.8605	28.2135	26.6250	26.3385
	N	20	20	20	20
	Std. Deviation	55.51028	55.24292	54.72357	54.40253
68656.00	Mean	52.1262	50.7590	51.5429	51.8095
	N	21	21	21	21
	Std. Deviation	10.05902	10.52139	9.89059	9.40201
68720.00	Mean	2.2875	2.5605	2.6635	-3.2475
	N	20	20	20	20
	Std. Deviation	68.71914	69.10446	68.94788	72.73245
68750.00	Mean	37.9853	38.0119	37.2394	37.6961
	N	36	36	36	36
	Std. Deviation	42.88809	42.61333	42.61712	42.88732
68809.00	Mean	50.6143	52.2810	49.3271	49.8948
	N	21	21	21	21
	Std. Deviation	34.72338	35.16504	35.40916	35.25491
68830.00	Mean	33.4970	30.6355	28.7825	33.1865
	N	20	20	20	20
	Std. Deviation	45.93452	45.08882	44.18718	45.97108
68843.00	Mean	46.1186	45.6495	47.3790	47.2510
	N	21	21	21	21
	Std. Deviation	9.77198	9.13035	8.67001	9.26646
70817.00	Mean	47.0660	44.8625	44.7570	44.1845
	N	20	20	20	20
	Std. Deviation	35.27686	35.55297	35.69876	34.94365
70840.00	Mean	59.1033	60.9276	57.7433	57.4033
	N	21	21	21	21
	Std. Deviation	5.84211	4.70497	9.75778	8.58224
72026.00	Mean	38.3581	36.3190	38.9690	37.9457
	N	21	21	21	21
	Std. Deviation	46.62968	46.11972	46.73586	46.24020

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72065.00	Mean	2.8867	5.5790	5.4214	4.5162
	N	21	21	21	21
	Std. Deviation	74.30794	76.11966	76.07341	75.56117
72080.00	Mean	38.1364	38.7723	37.6845	37.3095
	N	22	22	22	22
	Std. Deviation	45.28596	45.55750	45.29404	45.06802
72092.00	Mean	31.9243	32.8152	34.3424	25.6510
	N	21	21	21	21
	Std. Deviation	44.06408	44.62778	44.87409	52.75666
72108.00	Mean	49.4285	51.0120	50.3130	48.1590
	N	20	20	20	20
	Std. Deviation	35.83833	35.93056	35.73913	35.67549
72129.00	Mean	29.8071	30.6029	28.8782	28.9518
	N	28	28	28	28
	Std. Deviation	46.27092	46.40328	46.07619	45.86631
72218.00	Mean	52.7305	52.8185	55.4515	52.3430
	N	20	20	20	20
	Std. Deviation	9.52202	7.34407	8.12064	7.57094
72275.00	Mean	11.7338	12.5910	14.4243	12.8243
	N	21	21	21	21
	Std. Deviation	72.06816	72.76995	73.90370	72.82397
72336.00	Mean	26.7145	30.3290	21.2645	20.7905
	N	20	20	20	20
	Std. Deviation	64.82233	66.69538	71.45343	71.14121
72391.00	Mean	42.7310	43.6995	44.9510	44.0150
	N	20	20	20	20
	Std. Deviation	34.53061	34.53912	35.14557	34.77959
72411.00	Mean	22.8171	25.1971	23.7971	21.0343
	N	21	21	21	21
	Std. Deviation	60.94394	62.00441	61.33468	59.97977

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72440.00	Mean	20.6033	23.5043	24.0595	22.3038
	N	21	21	21	21
	Std. Deviation	60.16814	61.54731	61.62460	60.79838
72516.00	Mean	15.2095	20.6160	14.3665	13.7860
	N	20	20	20	20
	Std. Deviation	68.26947	71.14192	68.07218	67.58017
72527.00	Mean	47.0870	48.7135	49.5030	47.1805
	N	20	20	20	20
	Std. Deviation	11.55851	10.75692	10.34067	8.25611
72528.00	Mean	48.6840	51.0490	48.6330	49.4795
	N	20	20	20	20
	Std. Deviation	35.51663	35.70560	35.46182	35.81323
72573.00	Mean	4.0195	4.3010	4.1167	3.7290
	N	21	21	21	21
	Std. Deviation	74.95098	75.10396	75.15876	74.71044
72698.00	Mean	55.0322	53.4535	54.1913	43.4352
	N	23	23	23	23
	Std. Deviation	7.11691	10.13688	7.16706	32.08536
72730.00	Mean	32.1048	31.2305	33.3648	31.1390
	N	21	21	21	21
	Std. Deviation	55.43703	55.17100	56.02111	54.97607
72792.00	Mean	47.1157	45.5795	47.0433	45.9690
	N	21	21	21	21
	Std. Deviation	34.67793	33.93598	34.29891	33.95720
72813.00	Mean	40.5585	40.3665	39.2650	41.0870
	N	20	20	20	20
	Std. Deviation	48.19395	48.25913	48.18074	48.75318
72850.00	Mean	10.2090	11.9170	13.7525	11.5605
	N	20	20	20	20
	Std. Deviation	65.21920	66.41202	67.25734	65.99036

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72915.00	Mean	9.3530	12.7320	11.3580	11.6385
	N	20	20	20	20
	Std. Deviation	64.65417	66.74046	65.93902	65.98475
72939.00	Mean	20.6738	22.1897	20.4447	20.3816
	N	32	32	32	32
	Std. Deviation	65.02262	65.61732	64.80554	64.90270
72957.00	Mean	39.1986	40.7633	40.7019	36.6219
	N	21	21	21	21
	Std. Deviation	46.95778	47.34723	47.06598	45.77807
77456.00	Mean	25.6770	24.7600	19.0585	21.8756
	N	27	27	27	27
	Std. Deviation	53.33001	53.01936	57.73356	59.05016
77460.00	Mean	-24.3764	-24.9121	-31.0939	-31.0189
	N	28	28	28	28
	Std. Deviation	76.19994	75.65370	74.52948	74.58799
77542.00	Mean	-43.0086	-43.2305	-42.1568	-42.4627
	N	22	22	22	22
	Std. Deviation	76.15261	75.76677	77.14100	76.84176
77552.00	Mean	28.9300	29.0915	28.7620	28.6885
	N	20	20	20	20
	Std. Deviation	55.60243	55.71346	55.69509	55.43494
77673.00	Mean	-16.3396	-16.7731	-16.9950	-16.3092
	N	26	26	26	26
	Std. Deviation	78.17527	77.83699	77.66741	78.22588
77795.00	Mean	-40.6641	-41.3068	-41.5386	-39.6000
	N	22	22	22	22
	Std. Deviation	71.91059	71.13216	70.85102	73.25897
77842.00	Mean	36.7757	34.0929	39.0171	36.2581
	N	21	21	21	21
	Std. Deviation	32.28617	30.97762	32.29102	31.75542

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78011.00	Mean	45.6905	46.8095	46.9145	47.7732
	N	22	22	22	22
	Std. Deviation	9.38151	8.61059	8.68268	9.16525
78060.00	Mean	-17.3840	-17.1570	-18.6620	-18.8365
	N	20	20	20	20
	Std. Deviation	76.30479	76.47173	74.97781	74.87475
78061.00	Mean	-4.3125	-4.5060	-4.5775	-4.4595
	N	20	20	20	20
	Std. Deviation	79.42175	79.43118	79.20828	79.29181
78131.00	Mean	27.4260	31.8960	31.4500	29.1265
	N	20	20	20	20
	Std. Deviation	55.43158	56.82919	56.70932	55.91124
78138.00	Mean	46.3200	45.7575	46.8025	46.3300
	N	20	20	20	20
	Std. Deviation	35.24831	35.14531	35.04704	34.97447
78167.00	Mean	30.5038	29.5967	31.8971	32.6829
	N	21	21	21	21
	Std. Deviation	54.98373	54.52495	55.67196	55.70469
78205.00	Mean	41.1305	40.3777	40.8045	38.9186
	N	22	22	22	22
	Std. Deviation	32.59917	32.19425	32.66170	32.56089
78207.00	Mean	52.5082	51.5386	50.5900	50.8095
	N	22	22	22	22
	Std. Deviation	9.92937	8.52329	8.80972	8.91418
78311.00	Mean	50.8540	51.2320	52.6990	50.4415
	N	20	20	20	20
	Std. Deviation	35.96025	36.21632	36.55315	36.08508
78320.00	Mean	53.3745	56.9041	52.0795	51.6041
	N	22	22	22	22
	Std. Deviation	10.60433	8.76759	12.40632	11.68216

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78356.00	Mean	41.7910	42.0790	43.9110	45.1425
	N	20	20	20	20
	Std. Deviation	34.28747	34.33519	34.61948	34.87071
78374.00	Mean	30.2884	28.5308	28.0464	29.7224
	N	25	25	25	25
	Std. Deviation	58.04510	57.18715	57.03300	57.73354
78505.00	Mean	15.0500	14.4622	14.6470	14.1304
	N	27	27	27	27
	Std. Deviation	62.79632	62.23550	62.38881	62.03947
78533.00	Mean	50.4656	53.1425	52.0069	51.7738
	N	32	32	32	32
	Std. Deviation	9.27570	8.48928	8.93954	9.18685
78689.00	Mean	51.3815	54.4850	43.5505	42.5900
	N	20	20	20	20
	Std. Deviation	9.11292	8.42417	34.61618	34.69313
78705.00	Mean	-6.7090	-6.3305	-5.3660	-15.7390
	N	20	20	20	20
	Std. Deviation	77.43564	77.85528	78.66457	77.41498
78778.00	Mean	48.7429	50.0867	48.2276	46.7029
	N	21	21	21	21
	Std. Deviation	34.66892	35.11241	34.52399	34.34805
78859.00	Mean	18.9424	21.0529	22.3871	12.7571
	N	21	21	21	21
	Std. Deviation	59.26024	60.42111	61.09021	64.61609
79086.00	Mean	37.1797	38.6546	35.7046	36.3584
	N	37	37	37	37
	Std. Deviation	48.50183	49.15024	48.10493	48.35275
79276.00	Mean	43.3862	47.8233	42.7062	39.6048
	N	21	21	21	21
	Std. Deviation	34.59335	34.07379	33.72891	47.04393

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91969.00	Mean	17.7778	21.6211	21.6407	20.7700
	N	27	27	27	27
	Std. Deviation	70.67592	72.83968	73.03677	72.58375
Total	Mean	28.8100	29.3511	28.4366	27.9184
	N	4063	4063	4063	4063
	Std. Deviation	55.42392	55.73021	55.99490	56.36063

```
SAVE OUTFILE='C:\Users\tzkeith\Documents\Regression Book 3\Part 2\Chap 22 Late
nt interactions '+
```

```
    'MLM\MLM\NELS SEM\homework smaller for mplus conversion 4.sav'
```

```
    /COMPRESSED.
```

```
DATASET CLOSE DataSet1.
```

```
select if (sch_id ne 62821).
```

```
execute.
```

```
DATASET ACTIVATE DataSet1.
```

```
SAVE OUTFILE='C:\Users\tzkeith\Documents\Regression Book 3\Part 2\Chap 22 Late
nt interactions '+
```

```
    'MLM\MLM\NELS SEM\homework smaller for mplus conversion 4.sav'
```

```
    /COMPRESSED.
```