

```
1338 0 OUTPUT ACTIVATE SurveyAnalysisinSPSSOutput.  
1338 0 M> OUTPUT ACTIVATE SurveyAnalysisinSPSSOutput.  
1339 0 TITLE 'Survey Analysis in SPSS'.  
1339 0 M> TITLE 'Survey Analysis in SPSS'.
```

Survey Analysis in SPSS

```
1340 0
1340 0 M>
1341 0 GET DATA
1341 0 M> GET DATA
1342 0 /TYPE=TXT /FILE='D:\DATA ANALYSIS\M Survey and Likert Scale Analysis
\Survey Analysis in SPSS\dataset.csv' /ENCODING='UTF8'
      /DELCASE=LINE /DELIMITERS=', ' /QUALIFIER='"'
1342 0 M> /TYPE=TXT /FILE='D:\DATA ANALYSIS\M Survey and Likert Scale Analy
sis\Survey Analysis in SPSS\dataset.csv' /ENCODING='UT
      F8' /DELCASE=LINE /DELIMITERS=', ' /QUALIFIER='"'
1343 0 /ARRANGEMENT=DELIMITED /FIRSTCASE=2
1343 0 M> /ARRANGEMENT=DELIMITED /FIRSTCASE=2
1344 0 /VARIABLES=
1344 0 M> /VARIABLES=
1345 0 school A8 sex A8 age F8.0 address A8 famsize A8 Pstatus A8 Medu F8.0
Fedu F8.0
1345 0 M> school A8 sex A8 age F8.0 address A8 famsize A8 Pstatus A8 Medu F
8.0 Fedu F8.0
1346 0 Mjob A16 Fjob A16 reason A16 guardian A16 traveltime F8.0 studytime
F8.0 failures F8.0
1346 0 M> Mjob A16 Fjob A16 reason A16 guardian A16 traveltime F8.0 studyti
me F8.0 failures F8.0
1347 0 schoolsup A8 famsup A8 paid A8 activities A8 nursery A8 higher A8 in
ternet A8 romantic A8
1347 0 M> schoolsup A8 famsup A8 paid A8 activities A8 nursery A8 higher A8
internet A8 romantic A8
1348 0 famrel F8.0 freetime F8.0 goout F8.0 Dalc F8.0 Walc F8.0 health F8.0
absences F8.0 G1 F8.0 G2 F8.0 G3 F8.0.
1348 0 M> famrel F8.0 freetime F8.0 goout F8.0 Dalc F8.0 Walc F8.0 health F
8.0 absences F8.0 G1 F8.0 G2 F8.0 G3 F8.0.
1349 0 DATASET NAME SurveyAnalysisinSPSSData.
1349 0 M> DATASET NAME SurveyAnalysisinSPSSData.
1350 0 COMPUTE subject_id=$CASENUM.
1350 0 M> COMPUTE subject_id=$CASENUM.
1351 0 COMPUTE Dalc_R=6-Dalc.
1351 0 M> COMPUTE Dalc_R=6-Dalc.
1352 0 COMPUTE Walc_R=6-Walc.
1352 0 M> COMPUTE Walc_R=6-Walc.
```

Survey Analysis in SPSS

```
1353 0 COMPUTE scale_score=MEAN.6(famrel,freetime,goout,Dalc_R,Walc_R,health
).
1353 0 M> COMPUTE scale_score=MEAN.6(famrel,freetime,goout,Dalc_R,Walc_R,hea
lth).
1354 0 RECODE sex ('F'=1) ('M'=2) INTO sex_code.
1354 0 M> RECODE sex ('F'=1) ('M'=2) INTO sex_code.
1355 0 RECODE school ('GP'=1) ('MS'=2) INTO school_code.
1355 0 M> RECODE school ('GP'=1) ('MS'=2) INTO school_code.
1356 0 RECODE higher internet ('no'=0) ('yes'=1) INTO higher_code internet_c
ode.
1356 0 M> RECODE higher internet ('no'=0) ('yes'=1) INTO higher_code interne
t_code.
1357 0 EXECUTE.
1357 0 M> EXECUTE.
1358 0
1358 0 M>
1359 0 * BEGIN METHOD-SPECIFIC SPSS WORKFLOW.
1359 0 M> * BEGIN METHOD-SPECIFIC SPSS WORKFLOW.
1360 0 TITLE 'Survey Analysis in SPSS'.
1360 0 M> TITLE 'Survey Analysis in SPSS'.
```

Survey Analysis in SPSS

```
1361 0 SUBTITLE 'COMPUTE SPLIT FILE DESCRIPTIVES and FREQUENCIES workflow'.  
1361 0 M> SUBTITLE 'COMPUTE SPLIT FILE DESCRIPTIVES and FREQUENCIES workflow  
'.
```

Survey Analysis in SPSS

COMPUTE SPLIT FILE DESCRIPTIVES and FREQUENCIES workflow

```
1362 0 SORT CASES BY school.
1362 0 M> SORT CASES BY school.
1363 0 SPLIT FILE LAYERED BY school.
1363 0 M> SPLIT FILE LAYERED BY school.
1364 0 DESCRIPTIVES VARIABLES=scale_score /STATISTICS=MEAN STDDEV MIN MAX.
1364 0 M> DESCRIPTIVES VARIABLES=scale_score /STATISTICS=MEAN STDDEV MIN MAX
.
```

Descriptives

Notes

Output Created		18-JUL-2026 13:22:29
Comments		
Input	Data	D:\DATA ANALYSIS\MSurvey and Likert Scale Analysis\Survey Analysis in SPSS\dataset.csv
	Active Dataset	SurveyAnalysisinSPSSData
	Filter	<none>
	Weight	<none>
	Split File	school
	N of Rows in Working Data File	649
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	All non-missing data are used.
Syntax		DESCRIPTIVES VARIABLES=scale_score /STATISTICS=MEAN STDDEV MIN MAX.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.01

[SurveyAnalysisinSPSSData]

Survey Analysis in SPSS
COMPUTE SPLIT FILE DESCRIPTIVES and FREQUENCIES workflow

Descriptive Statistics

school		N	Minimum	Maximum	Mean	Std. Deviation
GP	scale_score	423	2.00	4.83	3.6856	.48317
	Valid N (listwise)	423				
MS	scale_score	226	2.00	4.83	3.6549	.51674
	Valid N (listwise)	226				

```
1365 0 FREQUENCIES VARIABLES=higher scale_score /STATISTICS=MEAN MEDIAN STDD
EV /BARChart FREQ.
```

```
1365 0 M> FREQUENCIES VARIABLES=higher scale_score /STATISTICS=MEAN MEDIAN S
TDDEV /BARChart FREQ.
```

Frequencies

Notes

Output Created		18-JUL-2026 13:22:29
Comments		
Input	Data	D:\DATA ANALYSIS\MS Survey and Likert Scale Analysis\Survey Analysis in SPSS\dataset.csv
	Active Dataset	SurveyAnalysisinSPSSData
	Filter	<none>
	Weight	<none>
	Split File	school
	N of Rows in Working Data File	649
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=higher scale_score /STATISTICS=MEAN MEDIAN STDDEV /BARChart FREQ.

Survey Analysis in SPSS
COMPUTE SPLIT FILE DESCRIPTIVES and FREQUENCIES workflow

Notes

Resources	Processor Time	00:00:01.27
	Elapsed Time	00:00:01.05

Statistics

school			higher	scale_score
GP	N	Valid	423	423
		Missing	0	0
	Mean			3.6856
	Median			3.6667
	Std. Deviation			.48317
MS	N	Valid	226	226
		Missing	0	0
	Mean			3.6549
	Median			3.6667
	Std. Deviation			.51674

Frequency Table

higher

school			Frequency	Percent	Valid Percent	Cumulative Percent
GP	Valid	no	32	7.6	7.6	7.6
		yes	391	92.4	92.4	100.0
		Total	423	100.0	100.0	
MS	Valid	no	37	16.4	16.4	16.4
		yes	189	83.6	83.6	100.0
		Total	226	100.0	100.0	

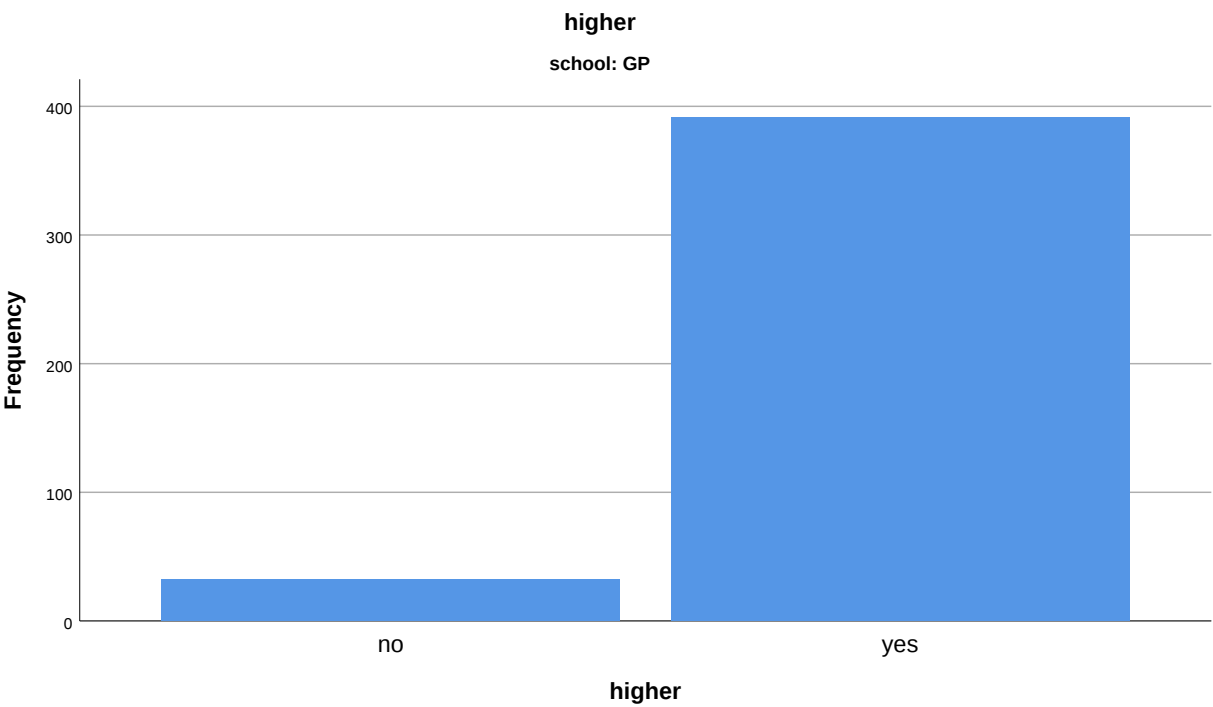
Survey Analysis in SPSS
COMPUTE SPLIT FILE DESCRIPTIVES and FREQUENCIES workflow

		scale_score				
school			Frequency	Percent	Valid Percent	Cumulative Percent
GP	Valid	2.00	1	.2	.2	.2
		2.33	3	.7	.7	.9
		2.50	4	.9	.9	1.9
		2.67	6	1.4	1.4	3.3
		2.83	18	4.3	4.3	7.6
		3.00	13	3.1	3.1	10.6
		3.17	28	6.6	6.6	17.3
		3.33	45	10.6	10.6	27.9
		3.50	52	12.3	12.3	40.2
		3.67	44	10.4	10.4	50.6
		3.83	68	16.1	16.1	66.7
		4.00	61	14.4	14.4	81.1
		4.17	29	6.9	6.9	87.9
		4.33	27	6.4	6.4	94.3
		4.50	16	3.8	3.8	98.1
		4.67	7	1.7	1.7	99.8
		4.83	1	.2	.2	100.0
		Total	423	100.0	100.0	
MS	Valid	2.00	1	.4	.4	.4
		2.33	2	.9	.9	1.3
		2.50	2	.9	.9	2.2
		2.67	9	4.0	4.0	6.2
		2.83	4	1.8	1.8	8.0
		3.00	10	4.4	4.4	12.4
		3.17	19	8.4	8.4	20.8
		3.33	31	13.7	13.7	34.5
		3.50	16	7.1	7.1	41.6
		3.67	25	11.1	11.1	52.7
		3.83	32	14.2	14.2	66.8
		4.00	33	14.6	14.6	81.4
		4.17	15	6.6	6.6	88.1
		4.33	11	4.9	4.9	92.9

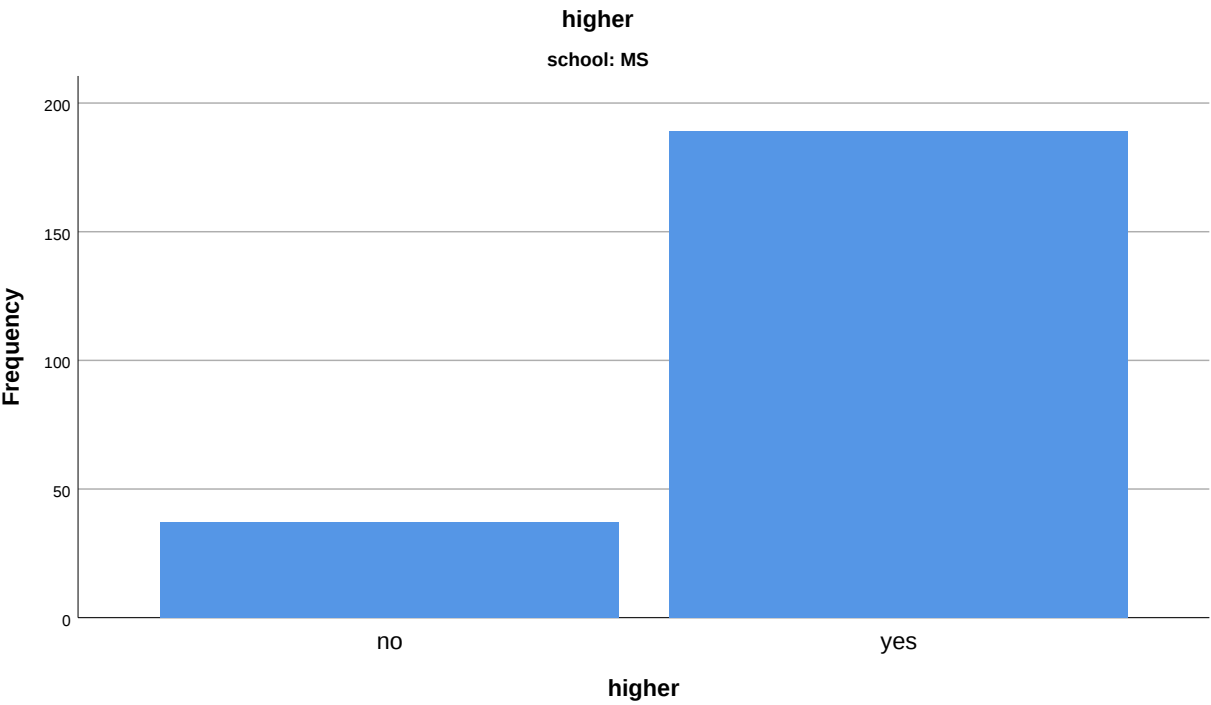
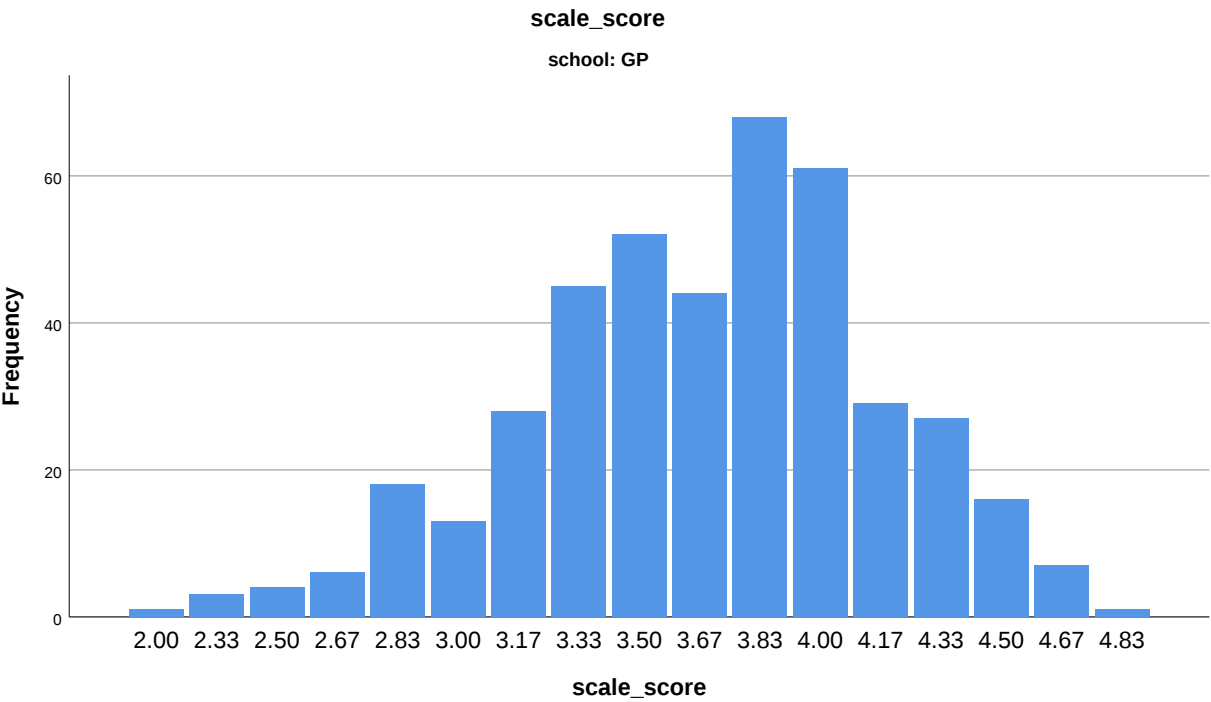
Survey Analysis in SPSS
COMPUTE SPLIT FILE DESCRIPTIVES and FREQUENCIES workflow

scale_score					
school		Frequency	Percent	Valid Percent	Cumulative Percent
	4.50	11	4.9	4.9	97.8
	4.67	4	1.8	1.8	99.6
	4.83	1	.4	.4	100.0
	Total	226	100.0	100.0	

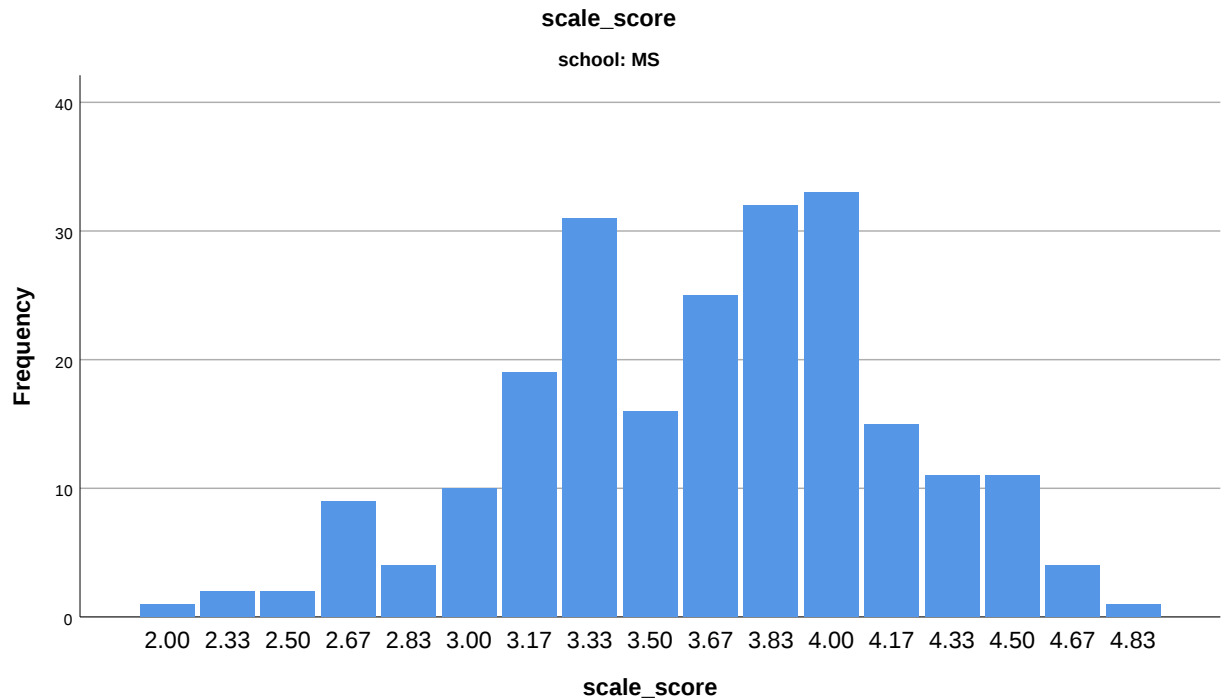
Bar Chart



Survey Analysis in SPSS
COMPUTE SPLIT FILE DESCRIPTIVESand FREQUENCIESworkflow



Survey Analysis in SPSS
COMPUTE SPLIT FILE DESCRIPTIVES and FREQUENCIES workflow



```
1366 0 SPLIT FILE OFF.  
1366 0 M> SPLIT FILE OFF.  
1367 0 CROSSTABS /TABLES=school BY higher /CELLS=COUNT ROW.  
1367 0 M> CROSSTABS /TABLES=school BY higher /CELLS=COUNT ROW.
```

Crosstabs

Survey Analysis in SPSS
COMPUTE SPLIT FILE DESCRIPTIVES and FREQUENCIES workflow

Notes

Output Created		18-JUL-2026 13:22:31
Comments		
Input	Data	D:\DATA ANALYSIS\IM Survey and Likert Scale Analysis\Survey Analysis in SPSS\dataset.csv
	Active Dataset	SurveyAnalysisinSPSSData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
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=school BY higher /CELLS=COUNT ROW.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.05
	Dimensions Requested	2
	Cells Available	524245

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
school * higher	649	100.0%	0	0.0%	649	100.0%

Survey Analysis in SPSS
COMPUTE SPLIT FILE DESCRIPTIVES and FREQUENCIES workflow

school * higher Crosstabulation

			higher		Total
			no	yes	
school	GP	Count	32	391	423
		% within school	7.6%	92.4%	100.0%
	MS	Count	37	189	226
		% within school	16.4%	83.6%	100.0%
Total		Count	69	580	649
		% within school	10.6%	89.4%	100.0%

```

1368 0 ECHO 'This folder is intentionally descriptive and does not add a group-difference statistic'.
1368 0 M> ECHO 'This folder is intentionally descriptive and does not add a group-difference statistic'.
This folder is intentionally descriptive and does not add a group-difference statistic
1369 0 * END METHOD-SPECIFIC SPSS WORKFLOW.
1369 0 M> * END METHOD-SPECIFIC SPSS WORKFLOW.
1370 0
1370 0 M>
1371 0 SAVE OUTFILE='D:\DATA ANALYSIS\M Survey and Likert Scale Analysis\Survey Analysis in SPSS\SPSS_Output\sav\survey-analysis-in-spss_spss_ready_data.sav' /COMPRESSED.
1371 0 M> SAVE OUTFILE='D:\DATA ANALYSIS\M Survey and Likert Scale Analysis\Survey Analysis in SPSS\SPSS_Output\sav\survey-analysis-in-spss_spss_ready_data.sav' /COMPRESSED.
1372 0
1372 0 M>
1373 0 ECHO '=====
====='.
1373 0 M> ECHO '=====
====='.
=====
1374 0 ECHO 'SURVEY ANALYSIS IN SPSS'.
1374 0 M> ECHO 'SURVEY ANALYSIS IN SPSS'.
SURVEY ANALYSIS IN SPSS
1375 0 ECHO 'Method type: software_workflow'.

```

Survey Analysis in SPSS
COMPUTE SPLIT FILE DESCRIPTIVES and FREQUENCIES workflow

```
1375  0 M> ECHO 'Method type: software_workflow'.
Method type: software_workflow
1376  0 ECHO 'Design: SPSS-style COMPUTE followed by SPLIT FILE descriptive s
ummaries for school-specific scale scores and higher-e
      ducation intention.'.
1376  0 M> ECHO 'Design: SPSS-style COMPUTE followed by SPLIT FILE descriptiv
e summaries for school-specific scale scores and highe
      r-education intention.'.
Design: SPSS-style COMPUTE followed by SPLIT FILE descriptive summaries for sc
hool-specific scale scores and higher-education intent
1377  0 ECHO 'Inference scope: No inferential test is required; the output is
a split-file descriptive analysis with frequencies an
      d scale summaries.'.
1377  0 M> ECHO 'Inference scope: No inferential test is required; the output
is a split-file descriptive analysis with frequencies
      and scale summaries.'.
Inference scope: No inferential test is required; the output is a split-file d
escriptive analysis with frequencies and scale summari
1378  0 ECHO 'Formula: COMPUTE scale=MEAN(aligned items); SPLIT FILE BY schoo
l; higher_yes_pct=100*n_yes/n_school.'.
1378  0 M> ECHO 'Formula: COMPUTE scale=MEAN(aligned items); SPLIT FILE BY sc
hool; higher_yes_pct=100*n_yes/n_school.'.
Formula: COMPUTE scale=MEAN(aligned items); SPLIT FILE BY school; higher_yes_p
ct=100*n_yes/n_school.
1379  0 ECHO 'Variables: school, higher, famrel, freetime, goout, Dalc, Walc,
health'.
1379  0 M> ECHO 'Variables: school, higher, famrel, freetime, goout, Dalc, Wa
lc, health'.
Variables: school, higher, famrel, freetime, goout, Dalc, Walc, health
1380  0 ECHO 'Rows analyzed: 649'.
1380  0 M> ECHO 'Rows analyzed: 649'.
Rows analyzed: 649
1381  0 ECHO 'gp_minus_ms_scale_mean = 0.030711939580325698'.
1381  0 M> ECHO 'gp_minus_ms_scale_mean = 0.030711939580325698'.
gp_minus_ms_scale_mean = 0.030711939580325698
1382  0 ECHO 'gp_scale_mean = 3.685579196217494'.
1382  0 M> ECHO 'gp_scale_mean = 3.685579196217494'.
gp_scale_mean = 3.685579196217494
1383  0 ECHO 'ms_scale_mean = 3.6548672566371683'.
```

Survey Analysis in SPSS
COMPUTE SPLIT FILE DESCRIPTIVES and FREQUENCIES workflow

```
1383  0 M>  ECHO 'ms_scale_mean = 3.6548672566371683'.
ms_scale_mean = 3.6548672566371683
1384  0  ECHO 'overall_higher_yes_percent = 89.36825885978429'.
1384  0 M>  ECHO 'overall_higher_yes_percent = 89.36825885978429'.
overall_higher_yes_percent = 89.36825885978429
1385  0  ECHO 'respondents = 649'.
1385  0 M>  ECHO 'respondents = 649'.
respondents = 649
1386  0  ECHO 'schools = 2'.
1386  0 M>  ECHO 'schools = 2'.
schools = 2
1387  0  ECHO 'Cross-check status: pass'.
1387  0 M>  ECHO 'Cross-check status: pass'.
Cross-check status: pass
1388  0  ECHO '=====
====='.
1388  0 M>  ECHO '=====
====='.
=====
1389  0
1389  0 M>
1390  0  OUTPUT SAVE OUTFILE='D:\DATA ANALYSIS\M Survey and Likert Scale Analy
sis\Survey Analysis in SPSS\SPSS_Output\spv\survey-ana
      lysis-in-spss_spss_output.spv'.
1390  0 M>  OUTPUT SAVE OUTFILE='D:\DATA ANALYSIS\M Survey and Likert Scale An
alysis\Survey Analysis in SPSS\SPSS_Output\spv\survey-
      analysis-in-spss_spss_output.spv'.
1391  0  OUTPUT EXPORT /CONTENTS EXPORT=ALL LAYERS=PRINTSETTING MODELVIEWS=PRI
NTSETTING
1391  0 M>  OUTPUT EXPORT /CONTENTS EXPORT=ALL LAYERS=PRINTSETTING MODELVIEWS=
PRINTSETTING
```