

```
878 0 OUTPUT ACTIVATE QuestionnaireCodinginExcelOutput.  
878 0 M> OUTPUT ACTIVATE QuestionnaireCodinginExcelOutput.  
879 0 TITLE 'Questionnaire Coding in Excel'.  
879 0 M> TITLE 'Questionnaire Coding in Excel'.
```

Questionnaire Coding in Excel

```
880 0
880 0 M>
881 0 GET DATA
881 0 M> GET DATA
882 0 /TYPE=TXT /FILE='D:\DATA ANALYSIS\M Survey and Likert Scale Analysis
\Questionnaire Coding in Excel\dataset.csv' /ENCODING=
      'UTF8' /DELCASE=LINE /DELIMITERS=', ' /QUALIFIER='''
882 0 M> /TYPE=TXT /FILE='D:\DATA ANALYSIS\M Survey and Likert Scale Analy
sis\Questionnaire Coding in Excel\dataset.csv' /ENCODI
      NG='UTF8' /DELCASE=LINE /DELIMITERS=', ' /QUALIFIER='''
883 0 /ARRANGEMENT=DELIMITED /FIRSTCASE=2
883 0 M> /ARRANGEMENT=DELIMITED /FIRSTCASE=2
884 0 /VARIABLES=
884 0 M> /VARIABLES=
885 0 school A8 sex A8 age F8.0 address A8 famsize A8 Pstatus A8 Medu F8.0
Fedu F8.0
885 0 M> school A8 sex A8 age F8.0 address A8 famsize A8 Pstatus A8 Medu F
8.0 Fedu F8.0
886 0 Mjob A16 Fjob A16 reason A16 guardian A16 traveltime F8.0 studytime
F8.0 failures F8.0
886 0 M> Mjob A16 Fjob A16 reason A16 guardian A16 traveltime F8.0 studyti
me F8.0 failures F8.0
887 0 schoolsup A8 famsup A8 paid A8 activities A8 nursery A8 higher A8 in
ternet A8 romantic A8
887 0 M> schoolsup A8 famsup A8 paid A8 activities A8 nursery A8 higher A8
internet A8 romantic A8
888 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.
888 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.
889 0 DATASET NAME QuestionnaireCodinginExcelData.
889 0 M> DATASET NAME QuestionnaireCodinginExcelData.
890 0 COMPUTE subject_id=$CASENUM.
890 0 M> COMPUTE subject_id=$CASENUM.
891 0 COMPUTE Dalc_R=6-Dalc.
891 0 M> COMPUTE Dalc_R=6-Dalc.
892 0 COMPUTE Walc_R=6-Walc.
892 0 M> COMPUTE Walc_R=6-Walc.
```

Questionnaire Coding in Excel

```
893 0 COMPUTE scale_score=MEAN.6(famrel,freetime,goout,Dalc_R,Walc_R,health
).
893 0 M> COMPUTE scale_score=MEAN.6(famrel,freetime,goout,Dalc_R,Walc_R,hea
lth).
894 0 RECODE sex ('F'=1) ('M'=2) INTO sex_code.
894 0 M> RECODE sex ('F'=1) ('M'=2) INTO sex_code.
895 0 RECODE school ('GP'=1) ('MS'=2) INTO school_code.
895 0 M> RECODE school ('GP'=1) ('MS'=2) INTO school_code.
896 0 RECODE higher internet ('no'=0) ('yes'=1) INTO higher_code internet_c
ode.
896 0 M> RECODE higher internet ('no'=0) ('yes'=1) INTO higher_code interne
t_code.
897 0 EXECUTE.
897 0 M> EXECUTE.
898 0
898 0 M>
899 0 * BEGIN METHOD-SPECIFIC SPSS WORKFLOW.
899 0 M> * BEGIN METHOD-SPECIFIC SPSS WORKFLOW.
900 0 TITLE 'Questionnaire Coding in Excel'.
900 0 M> TITLE 'Questionnaire Coding in Excel'.
```

Questionnaire Coding in Excel

```
901 0 SUBTITLE 'Numeric category mapping reverse scoring and validation'.  
901 0 M> SUBTITLE 'Numeric category mapping reverse scoring and validation'  
.
```

Questionnaire Coding in Excel
Numeric category mapping reverse scoring and validation

```
902  0  RECODE school ('GP'=1) ('MS'=2) INTO excel_school_code.
902  0 M> RECODE school ('GP'=1) ('MS'=2) INTO excel_school_code.
903  0  RECODE sex ('F'=1) ('M'=2) INTO excel_sex_code.
903  0 M> RECODE sex ('F'=1) ('M'=2) INTO excel_sex_code.
904  0  RECODE higher internet ('no'=0) ('yes'=1) INTO excel_higher_code exce
l_internet_code.
904  0 M> RECODE higher internet ('no'=0) ('yes'=1) INTO excel_higher_code e
xcel_internet_code.
905  0  COMPUTE excel_Dalc_reverse=6-Dalc.
905  0 M> COMPUTE excel_Dalc_reverse=6-Dalc.
906  0  COMPUTE excel_Walc_reverse=6-Walc.
906  0 M> COMPUTE excel_Walc_reverse=6-Walc.
907  0  COMPUTE reverse_check_fail=(excel_Dalc_reverse+Dalc<>6 OR excel_Walc_
reverse+Walc<>6).
907  0 M> COMPUTE reverse_check_fail=(excel_Dalc_reverse+Dalc<>6 OR excel_Wa
lc_reverse+Walc<>6).
908  0  FREQUENCIES VARIABLES=excel_school_code excel_sex_code excel_higher_c
ode excel_internet_code excel_Dalc_reverse excel_Walc_
reverse reverse_check_fail.
908  0 M> FREQUENCIES VARIABLES=excel_school_code excel_sex_code excel_higher
r_code excel_internet_code excel_Dalc_reverse excel_Wa
lc_reverse reverse_check_fail.
```

Frequencies

Questionnaire Coding in Excel
Numeric category mapping reverse scoring and validation

Notes

Output Created		18-JUL-2026 13:21:51
Comments		
Input	Data	D:\DATA ANALYSIS\MSM Survey and Likert Scale Analysis\Questionnaire Coding in Excel\dataset.csv
	Active Dataset	QuestionnaireCodinginExcelData
	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 are based on all cases with valid data.
Syntax		FREQUENCIES VARIABLES=excel_school_code excel_sex_code excel_higher_code excel_internet_code excel_Dalc_reverse excel_Walc_reverse reverse_check_fail.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.06

[QuestionnaireCodinginExcelData]

Statistics

		excel_school_code	excel_sex_code	excel_higher_code	excel_internet_code	excel_Dalc_reverse
N	Valid	649	649	649	649	649
	Missing	0	0	0	0	0

Questionnaire Coding in Excel
Numeric category mapping reverse scoring and validation

Statistics

		excel_Walc_rev erse	reverse_check_ fail
N	Valid	649	649
	Missing	0	0

Frequency Table

excel_school_code

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	423	65.2	65.2	65.2
	2.00	226	34.8	34.8	100.0
	Total	649	100.0	100.0	

excel_sex_code

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	383	59.0	59.0	59.0
	2.00	266	41.0	41.0	100.0
	Total	649	100.0	100.0	

excel_higher_code

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	69	10.6	10.6	10.6
	1.00	580	89.4	89.4	100.0
	Total	649	100.0	100.0	

excel_internet_code

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	151	23.3	23.3	23.3
	1.00	498	76.7	76.7	100.0
	Total	649	100.0	100.0	

Questionnaire Coding in Excel
Numeric category mapping reverse scoring and validation

excel_Dalc_reverse

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	17	2.6	2.6	2.6
	2.00	17	2.6	2.6	5.2
	3.00	43	6.6	6.6	11.9
	4.00	121	18.6	18.6	30.5
	5.00	451	69.5	69.5	100.0
	Total	649	100.0	100.0	

excel_Walc_reverse

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	45	6.9	6.9	6.9
	2.00	87	13.4	13.4	20.3
	3.00	120	18.5	18.5	38.8
	4.00	150	23.1	23.1	61.9
	5.00	247	38.1	38.1	100.0
	Total	649	100.0	100.0	

reverse_check_fail

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	649	100.0	100.0	100.0

```

909 0 ECHO 'This coding workflow mirrors explicit Excel lookup formulas and
validation checks'.
909 0 M> ECHO 'This coding workflow mirrors explicit Excel lookup formulas
and validation checks'.
This coding workflow mirrors explicit Excel lookup formulas and validation che
cks
910 0 * END METHOD-SPECIFIC SPSS WORKFLOW.
910 0 M> * END METHOD-SPECIFIC SPSS WORKFLOW.
911 0
911 0 M>

```

Questionnaire Coding in Excel
Numeric category mapping reverse scoring and validation

```
912 0 SAVE OUTFILE='D:\DATA ANALYSIS\M Survey and Likert Scale Analysis\Questionnaire Coding in Excel\SPSS_Output\sav\questionnaire-coding-in-excel_spss_ready_data.sav' /COMPRESSED.
912 0 M> SAVE OUTFILE='D:\DATA ANALYSIS\M Survey and Likert Scale Analysis\Questionnaire Coding in Excel\SPSS_Output\sav\questionnaire-coding-in-excel_spss_ready_data.sav' /COMPRESSED.

913 0
913 0 M>
914 0 ECHO '=====
====='.
914 0 M> ECHO '=====
====='.
=====
915 0 ECHO 'QUESTIONNAIRE CODING IN EXCEL'.
915 0 M> ECHO 'QUESTIONNAIRE CODING IN EXCEL'.
QUESTIONNAIRE CODING IN EXCEL
916 0 ECHO 'Method type: coding_workflow'.
916 0 M> ECHO 'Method type: coding_workflow'.
Method type: coding_workflow
917 0 ECHO 'Design: Excel-ready numeric coding, lookup dictionary, reverse scoring, and validation for selected questionnaire fields.'.
917 0 M> ECHO 'Design: Excel-ready numeric coding, lookup dictionary, reverse scoring, and validation for selected questionnaire fields.'.
Design: Excel-ready numeric coding, lookup dictionary, reverse scoring, and validation for selected questionnaire fields.
918 0 ECHO 'Inference scope: No hypothesis test is required; coding completeness and permitted-value validation are the outputs.'.
.
918 0 M> ECHO 'Inference scope: No hypothesis test is required; coding completeness and permitted-value validation are the outputs.'.
Inference scope: No hypothesis test is required; coding completeness and permitted-value validation are the outputs.
919 0 ECHO 'Formula: XLOOKUP/category map for labels; reverse=minimum+maximum-original=6-original.'.
919 0 M> ECHO 'Formula: XLOOKUP/category map for labels; reverse=minimum+maximum-original=6-original.'.
```

Questionnaire Coding in Excel
Numeric category mapping reverse scoring and validation

Formula: XLOOKUP/category map for labels; reverse=minimum+maximum-original=6-original.

```
920 0 ECHO 'Variables: school, sex, higher, internet, Dalc, Walc'.
920 0 M> ECHO 'Variables: school, sex, higher, internet, Dalc, Walc'.
Variables: school, sex, higher, internet, Dalc, Walc
921 0 ECHO 'Rows analyzed: 649'.
921 0 M> ECHO 'Rows analyzed: 649'.
Rows analyzed: 649
922 0 ECHO 'coded_variables = 6'.
922 0 M> ECHO 'coded_variables = 6'.
coded_variables = 6
923 0 ECHO 'higher_yes_rate = 0.8936825885978429'.
923 0 M> ECHO 'higher_yes_rate = 0.8936825885978429'.
higher_yes_rate = 0.8936825885978429
924 0 ECHO 'internet_yes_rate = 0.7673343605546995'.
924 0 M> ECHO 'internet_yes_rate = 0.7673343605546995'.
internet_yes_rate = 0.7673343605546995
925 0 ECHO 'invalid_or_unmapped_cells = 0'.
925 0 M> ECHO 'invalid_or_unmapped_cells = 0'.
invalid_or_unmapped_cells = 0
926 0 ECHO 'reverse_sum_check_failures = 0'.
926 0 M> ECHO 'reverse_sum_check_failures = 0'.
reverse_sum_check_failures = 0
927 0 ECHO 'rows_coded = 649'.
927 0 M> ECHO 'rows_coded = 649'.
rows_coded = 649
928 0 ECHO 'Cross-check status: pass'.
928 0 M> ECHO 'Cross-check status: pass'.
Cross-check status: pass
929 0 ECHO '=====
====='.
929 0 M> ECHO '=====
====='.
=====
930 0
930 0 M>
931 0 OUTPUT SAVE OUTFILE='D:\DATA ANALYSIS\M Survey and Likert Scale Analysis\Questionnaire Coding in Excel\SPSS_Output\spv\questionnaire-coding-in-excel_spss_output.spv'.
```

Questionnaire Coding in Excel
Numeric category mapping reverse scoring and validation

```
931  0 M> OUTPUT SAVE OUTFILE='D:\DATA ANALYSIS\M Survey and Likert Scale An
alysis\Questionnaire Coding in Excel\SPSS_Output\spv\q
          uestionnaire-coding-in-excel_spss_output.spv'.
932  0 OUTPUT EXPORT /CONTENTS EXPORT=ALL LAYERS=PRINTSETTING MODELVIEWS=PRI
NTSETTING
932  0 M> OUTPUT EXPORT /CONTENTS EXPORT=ALL LAYERS=PRINTSETTING MODELVIEWS=
PRINTSETTING
```