

```
216 0 OUTPUT ACTIVATE LifeTableAnalysisOutput.  
216 0 M> OUTPUT ACTIVATE LifeTableAnalysisOutput.  
217 0 TITLE 'Life Table Analysis'.  
217 0 M> TITLE 'Life Table Analysis'.
```

Life Table Analysis

```

218 0 GET DATA /TYPE=TXT /FILE='D:\DATA ANALYSIS\0 Survival Analysis\Life T
able Analysis\dataset.csv' /ENCODING='UTF8' /DELCASE=L
      INE /DELIMITERS=', ' /QUALIFIER='"' /ARRANGEMENT=DELIMITED /FIRSTCA
SE=2
218 0 M> GET DATA /TYPE=TXT /FILE='D:\DATA ANALYSIS\0 Survival Analysis\Lif
e Table Analysis\dataset.csv' /ENCODING='UTF8' /DELCAS
      E=LINE /DELIMITERS=', ' /QUALIFIER='"' /ARRANGEMENT=DELIMITED /F
IRSTCASE=2
219 0 /VARIABLES=school A8 sex A8 age F8.0 address A8 famsize A8 Pstatus A
8 Medu F8.0 Fedu F8.0 Mjob A16 Fjob A16 reason A16 gua
      rdian A16 traveltime F8.0 studytime F8.0 failures F8.0 schoolsup A
8 famsup A8 paid A8 activities A8 nursery A8 higher A8
      internet A8 romantic A8 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 F
      8.0 G3 F8.0.
219 0 M> /VARIABLES=school A8 sex A8 age F8.0 address A8 famsize A8 Pstatu
s A8 Medu F8.0 Fedu F8.0 Mjob A16 Fjob A16 reason A16
      guardian A16 traveltime F8.0 studytime F8.0 failures F8.0 schoo
lsup A8 famsup A8 paid A8 activities A8 nursery A8 hig
      her A8 internet A8 romantic A8 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.
220 0 DATASET NAME LifeTableAnalysisData.
220 0 M> DATASET NAME LifeTableAnalysisData.
221 0 COMPUTE duration=absences+1.
221 0 M> COMPUTE duration=absences+1.
222 0 COMPUTE event=(G3<10).
222 0 M> COMPUTE event=(G3<10).
223 0 COMPUTE cause=0.
223 0 M> COMPUTE cause=0.
224 0 IF(G3>0 AND G3<10) cause=1.
224 0 M> IF(G3>0 AND G3<10) cause=1.
225 0 IF(G3=0) cause=2.
225 0 M> IF(G3=0) cause=2.
226 0 COMPUTE competing_event=(cause>0).
226 0 M> COMPUTE competing_event=(cause>0).
227 0 COMPUTE sex_male=(sex='M').
227 0 M> COMPUTE sex_male=(sex='M').

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Life Table Analysis

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228 0 VARIABLE LABELS duration 'Demonstration duration: absences plus one'
event 'Academic failure event: G3 below ten' cause '0
      censored, 1 nonzero failure, 2 zero-grade competing event'.
228 0 M> VARIABLE LABELS duration 'Demonstration duration: absences plus on
e' event 'Academic failure event: G3 below ten' cause
      '0 censored, 1 nonzero failure, 2 zero-grade competing event'.
229 0 VALUE LABELS event 0 'Censored' 1 'Failure' /cause 0 'Censored' 1 'No
nzero failure' 2 'Zero grade'.
229 0 M> VALUE LABELS event 0 'Censored' 1 'Failure' /cause 0 'Censored' 1
'Nonzero failure' 2 'Zero grade'.
230 0 EXECUTE.
230 0 M> EXECUTE.
231 0 * BEGIN METHOD-SPECIFIC SPSS WORKFLOW.
231 0 M> * BEGIN METHOD-SPECIFIC SPSS WORKFLOW.
232 0 SURVIVAL TABLE=duration BY sex_male(0,1) /STATUS=event(1) FOR duratio
n /INTERVAL=THRU 40 BY 5 /PRINT=TABLE.
232 0 M> SURVIVAL TABLE=duration BY sex_male(0,1) /STATUS=event(1) FOR dura
tion /INTERVAL=THRU 40 BY 5 /PRINT=TABLE.
```

Survival Analysis

Life Table Analysis

Notes

Output Created		18-JUL-2026 17:27:22
Comments		
Input	Data	D:\DATA ANALYSIS\O Survival Analysis\Life Table Analysis\dataset.csv
	Active Dataset	LifeTableAnalysisData
	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	Cases with missing values on a variable are excluded from any calculation involving that variable.
Syntax		SURVIVAL TABLE=duration BY sex_male(0,1) /STATUS=event(1) FOR duration /INTERVAL=THRU 40 BY 5 /PRINT=TABLE.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.12

[LifeTableAnalysisData]

Survival Variable: Demonstration duration: absences plus one

Life Table Analysis

Life Table

First-order Controls		Interval Start Time	Number Entering Interval	Number Withdrawing during Interval	Number Exposed to Risk
sex_male	.00	0	383	200	283.000
		5	155	97	106.500
		10	45	21	34.500
		15	19	12	13.000
		20	4	1	3.500
		25	3	0	3.000
		30	2	2	1.000
	1.00	0	266	120	206.000
		5	121	73	84.500
		10	32	15	24.500
		15	12	6	9.000
		20	4	2	3.000
		25	1	0	1.000

Life Table Analysis

Life Table

First-order Controls		Interval Start Time	Number of Terminal Events	Proportion Terminating	Proportion Surviving
sex_male	.00	0	28	.10	.90
		5	13	.12	.88
		10	5	.14	.86
		15	3	.23	.77
		20	0	.00	1.00
		25	1	.33	.67
		30	0	.00	1.00
	1.00	0	25	.12	.88
		5	16	.19	.81
		10	5	.20	.80
		15	2	.22	.78
		20	1	.33	.67
		25	1	1.00	.00

Life Table Analysis

Life Table

First-order Controls		Interval Start Time	Cumulative Proportion Surviving at End of Interval	Std. Error of Cumulative Proportion Surviving at End of Interval	Probability Density
sex_male	.00	0	.90	.02	.020
		5	.79	.03	.022
		10	.68	.05	.023
		15	.52	.09	.031
		20	.52	.09	.000
		25	.35	.15	.035
		30	.35	.15	.000
	1.00	0	.88	.02	.024
		5	.71	.04	.033
		10	.57	.07	.029
		15	.44	.09	.025
		20	.29	.14	.029
		25	.00	.00	.059

Life Table Analysis

Life Table

First-order Controls		Interval Start Time	Std. Error of Probability Density	Hazard Rate	Std. Error of Hazard Rate
sex_male	.00	0	.004	.02	.00
		5	.006	.03	.01
		10	.010	.03	.01
		15	.016	.05	.03
		20	.000	.00	.00
		25	.029	.08	.08
		30	.000	.00	.00
	1.00	0	.005	.03	.01
		5	.008	.04	.01
		10	.012	.05	.02
		15	.016	.05	.04
		20	.025	.08	.08
		25	.027	.40	.00

Median Survival Time

First-order Controls		Med Time
sex_male	.00	25.5860
	1.00	17.6556

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233 0 ECHO 'Five-unit actuarial intervals use half-withdrawal adjustment'.
233 0 M> ECHO 'Five-unit actuarial intervals use half-withdrawal adjustment
'.
Five-unit actuarial intervals use half-withdrawal adjustment
234 0 * END METHOD-SPECIFIC SPSS WORKFLOW.
234 0 M> * END METHOD-SPECIFIC SPSS WORKFLOW.
235 0 SAVE OUTFILE='D:\DATA ANALYSIS\0 Survival Analysis\Life Table Analysis\SPSS_Output\sav\life-table-analysis_spss_ready_data.sav' /COMPRESSED.
235 0 M> SAVE OUTFILE='D:\DATA ANALYSIS\0 Survival Analysis\Life Table Analysis\SPSS_Output\sav\life-table-analysis_spss_ready_data.sav' /COMPRESSED.
236 0 ECHO 'Life Table Analysis'.

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Life Table Analysis

```
236 0 M> ECHO 'Life Table Analysis'.
Life Table Analysis
237 0 ECHO 'Method type: actuarial_survival_estimation'.
237 0 M> ECHO 'Method type: actuarial_survival_estimation'.
Method type: actuarial_survival_estimation
238 0 ECHO 'Design: Actuarial life table in five-day intervals with half-wi
thdrawal adjustment.'.
238 0 M> ECHO 'Design: Actuarial life table in five-day intervals with half
-withdrawal adjustment.'.
Design: Actuarial life table in five-day intervals with half-withdrawal adjust
ment.
239 0 ECHO 'Formula:  $q_j = d_j / (n_j - c_j / 2)$ ;  $S_j = S_{(j-1)} * (1 - q_j)$ '.
239 0 M> ECHO 'Formula:  $q_j = d_j / (n_j - c_j / 2)$ ;  $S_j = S_{(j-1)} * (1 - q_j)$ '.
Formula:  $q_j = d_j / (n_j - c_j / 2)$ ;  $S_j = S_{(j-1)} * (1 - q_j)$ 
240 0 ECHO 'Duration encoding: absences plus one'.
240 0 M> ECHO 'Duration encoding: absences plus one'.
Duration encoding: absences plus one
241 0 ECHO 'Event encoding: G3 below ten'.
241 0 M> ECHO 'Event encoding: G3 below ten'.
Event encoding: G3 below ten
242 0 ECHO 'Competing event: G3 equals zero where applicable'.
242 0 M> ECHO 'Competing event: G3 equals zero where applicable'.
Competing event: G3 equals zero where applicable
243 0 ECHO 'interval_width = 5'.
243 0 M> ECHO 'interval_width = 5'.
interval_width = 5
244 0 ECHO 'intervals = 7'.
244 0 M> ECHO 'intervals = 7'.
intervals = 7
245 0 ECHO 'events = 100'.
245 0 M> ECHO 'events = 100'.
events = 100
246 0 ECHO 'final_actuarial_survival = 0.2372047908154492'.
246 0 M> ECHO 'final_actuarial_survival = 0.2372047908154492'.
final_actuarial_survival = 0.2372047908154492
247 0 ECHO 'median_interval_start = 20.0'.
247 0 M> ECHO 'median_interval_start = 20.0'.
median_interval_start = 20.0
248 0 ECHO 'total_person_time = 3024.0'.
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Life Table Analysis

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248 0 M> ECHO 'total_person_time = 3024.0'.
total_person_time = 3024.0
249 0 ECHO 'Cross-check status: pass'.
249 0 M> ECHO 'Cross-check status: pass'.
Cross-check status: pass
250 0 OUTPUT SAVE OUTFILE='D:\DATA ANALYSIS\0 Survival Analysis\Life Table
Analysis\SPSS_Output\spv\life-table-analysis_spss_outp
ut.spv'.
250 0 M> OUTPUT SAVE OUTFILE='D:\DATA ANALYSIS\0 Survival Analysis\Life Tab
le Analysis\SPSS_Output\spv\life-table-analysis_spss_o
utput.spv'.
251 0 OUTPUT EXPORT /CONTENTS EXPORT=ALL LAYERS=PRINTSETTING MODELVIEWS=PRI
NTSETTING /PDF DOCUMENTFILE='D:\DATA ANALYSIS\0 Surviv
al Analysis\Life Table Analysis\SPSS_Output\pdf\life-table-analysi
s_spss_output.pdf'.
251 0 M> OUTPUT EXPORT /CONTENTS EXPORT=ALL LAYERS=PRINTSETTING MODELVIEWS=
PRINTSETTING /PDF DOCUMENTFILE='D:\DATA ANALYSIS\0 Sur
vival Analysis\Life Table Analysis\SPSS_Output\pdf\life-table-a
nalysis_spss_output.pdf'.
```