

Dataset Name

Warnings

The active dataset will replace the existing dataset named StudentData.

Mean Median and Mode Analysis

```
>Warning # 2004. Command name: SUBTITLE  
>The subtitle given exceeds 60 characters in length. The first 60 characters  
>will be used.
```

Mean Median and Mode Analysis
 Central tendency output for numeric variables and grouped fi

Frequencies

Statistics

		Final grade	Second period grade	First period grade	Student age	School absences
N	Valid	649	649	649	649	649
	Missing	0	0	0	0	0
Mean		11.91	11.57	11.40	16.74	3.66
Median		12.00	11.00	11.00	17.00	2.00
Mode		11	11	10	17	0
Std. Deviation		3.231	2.914	2.745	1.218	4.641
Variance		10.437	8.489	7.536	1.484	21.537
Skewness		-.913	-.360	-.003	.417	2.021
Std. Error of Skewness		.096	.096	.096	.096	.096
Kurtosis		2.712	1.662	.037	.072	5.781
Std. Error of Kurtosis		.192	.192	.192	.192	.192
Range		19	19	19	7	32
Minimum		0	0	0	15	0
Maximum		19	19	19	22	32

Mean Median and Mode Analysis
 Central tendency output for numeric variables and grouped fi

Statistics

		Weekly study time category	Number of past class failures
N	Valid	649	649
	Missing	0	0
Mean		1.93	.22
Median		2.00	.00
Mode		2	0
Std. Deviation		.830	.593
Variance		.688	.352
Skewness		.700	3.093
Std. Error of Skewness		.096	.096
Kurtosis		.038	9.824
Std. Error of Kurtosis		.192	.192
Range		3	3
Minimum		1	0
Maximum		4	3

Frequency Table

Mean Median and Mode Analysis
 Central tendency output for numeric variables and grouped fi

Final grade

		Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	0	15	2.3	2.3	2.3	
	1	1	.2	.2	2.5	
	5	1	.2	.2	2.6	
	6	3	.5	.5	3.1	
	7	10	1.5	1.5	4.6	
	8	35	5.4	5.4	10.0	
	9	35	5.4	5.4	15.4	
	10	97	14.9	14.9	30.4	
	11	104	16.0	16.0	46.4	
	12	72	11.1	11.1	57.5	
	13	82	12.6	12.6	70.1	
	14	63	9.7	9.7	79.8	
	15	49	7.6	7.6	87.4	
	16	36	5.5	5.5	92.9	
	17	29	4.5	4.5	97.4	
	18	15	2.3	2.3	99.7	
	19	2	.3	.3	100.0	
		Total	649	100.0	100.0	

Mean Median and Mode Analysis
 Central tendency output for numeric variables and grouped fi

Second period grade

		Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	0	7	1.1	1.1	1.1	
	5	3	.5	.5	1.5	
	6	7	1.1	1.1	2.6	
	7	16	2.5	2.5	5.1	
	8	40	6.2	6.2	11.2	
	9	72	11.1	11.1	22.3	
	10	83	12.8	12.8	35.1	
	11	103	15.9	15.9	51.0	
	12	86	13.3	13.3	64.3	
	13	80	12.3	12.3	76.6	
	14	54	8.3	8.3	84.9	
	15	38	5.9	5.9	90.8	
	16	25	3.9	3.9	94.6	
	17	20	3.1	3.1	97.7	
	18	14	2.2	2.2	99.8	
	19	1	.2	.2	100.0	
	Total		649	100.0	100.0	

Mean Median and Mode Analysis
 Central tendency output for numeric variables and grouped fi

First period grade

		Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	0	1	.2	.2	.2	
	4	2	.3	.3	.5	
	5	5	.8	.8	1.2	
	6	9	1.4	1.4	2.6	
	7	33	5.1	5.1	7.7	
	8	42	6.5	6.5	14.2	
	9	65	10.0	10.0	24.2	
	10	95	14.6	14.6	38.8	
	11	91	14.0	14.0	52.9	
	12	82	12.6	12.6	65.5	
	13	72	11.1	11.1	76.6	
	14	71	10.9	10.9	87.5	
	15	35	5.4	5.4	92.9	
	16	22	3.4	3.4	96.3	
	17	16	2.5	2.5	98.8	
	18	7	1.1	1.1	99.8	
	19	1	.2	.2	100.0	
	Total		649	100.0	100.0	

Student age

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	15	112	17.3	17.3	17.3
	16	177	27.3	27.3	44.5
	17	179	27.6	27.6	72.1
	18	140	21.6	21.6	93.7
	19	32	4.9	4.9	98.6
	20	6	.9	.9	99.5
	21	2	.3	.3	99.8
	22	1	.2	.2	100.0
	Total		649	100.0	100.0

Mean Median and Mode Analysis
 Central tendency output for numeric variables and grouped fi

School absences

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	244	37.6	37.6	37.6
	1	12	1.8	1.8	39.4
	2	110	16.9	16.9	56.4
	3	7	1.1	1.1	57.5
	4	93	14.3	14.3	71.8
	5	12	1.8	1.8	73.7
	6	49	7.6	7.6	81.2
	7	3	.5	.5	81.7
	8	42	6.5	6.5	88.1
	9	7	1.1	1.1	89.2
	10	21	3.2	3.2	92.4
	11	5	.8	.8	93.2
	12	12	1.8	1.8	95.1
	13	1	.2	.2	95.2
	14	8	1.2	1.2	96.5
	15	2	.3	.3	96.8
	16	10	1.5	1.5	98.3
	18	3	.5	.5	98.8
	21	2	.3	.3	99.1
	22	2	.3	.3	99.4
24	1	.2	.2	99.5	
26	1	.2	.2	99.7	
30	1	.2	.2	99.8	
32	1	.2	.2	100.0	
	Total	649	100.0	100.0	

Mean Median and Mode Analysis
Central tendency output for numeric variables and grouped fi

Weekly study time category

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	212	32.7	32.7	32.7
	2	305	47.0	47.0	79.7
	3	97	14.9	14.9	94.6
	4	35	5.4	5.4	100.0
	Total	649	100.0	100.0	

Number of past class failures

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	549	84.6	84.6	84.6
	1	70	10.8	10.8	95.4
	2	16	2.5	2.5	97.8
	3	14	2.2	2.2	100.0
	Total	649	100.0	100.0	

Descriptives

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Final grade	649	0	19	11.91	3.231
Second period grade	649	0	19	11.57	2.914
First period grade	649	0	19	11.40	2.745
Student age	649	15	22	16.74	1.218
School absences	649	0	32	3.66	4.641
Weekly study time category	649	1	4	1.93	.830
Number of past class failures	649	0	3	.22	.593
Valid N (listwise)	649				

Explore

Mean Median and Mode Analysis
 Central tendency output for numeric variables and grouped fi

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Final grade	649	100.0%	0	0.0%	649	100.0%
Second period grade	649	100.0%	0	0.0%	649	100.0%
First period grade	649	100.0%	0	0.0%	649	100.0%
School absences	649	100.0%	0	0.0%	649	100.0%

Descriptives

		Statistic	Std. Error	
Final grade	Mean	11.91	.127	
	95% Confidence Interval for Mean	Lower Bound	11.66	
		Upper Bound	12.16	
	5% Trimmed Mean	12.06		
	Median	12.00		
	Variance	10.437		
	Std. Deviation	3.231		
	Minimum	0		
	Maximum	19		
	Range	19		
	Interquartile Range	4		
	Skewness	-.913	.096	
	Kurtosis	2.712	.192	
Second period grade	Mean	11.57	.114	
	95% Confidence Interval for Mean	Lower Bound	11.35	
		Upper Bound	11.79	
	5% Trimmed Mean	11.60		
	Median	11.00		
	Variance	8.489		
	Std. Deviation	2.914		
	Minimum	0		
	Maximum	19		
	Range	19		

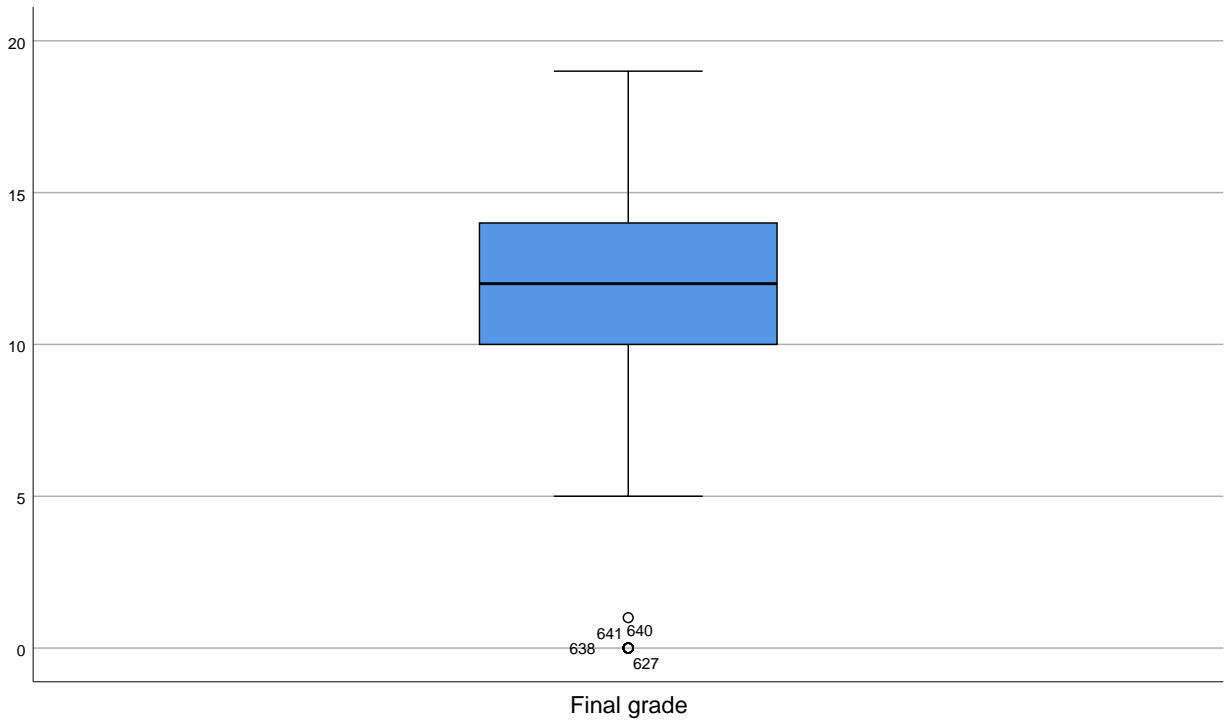
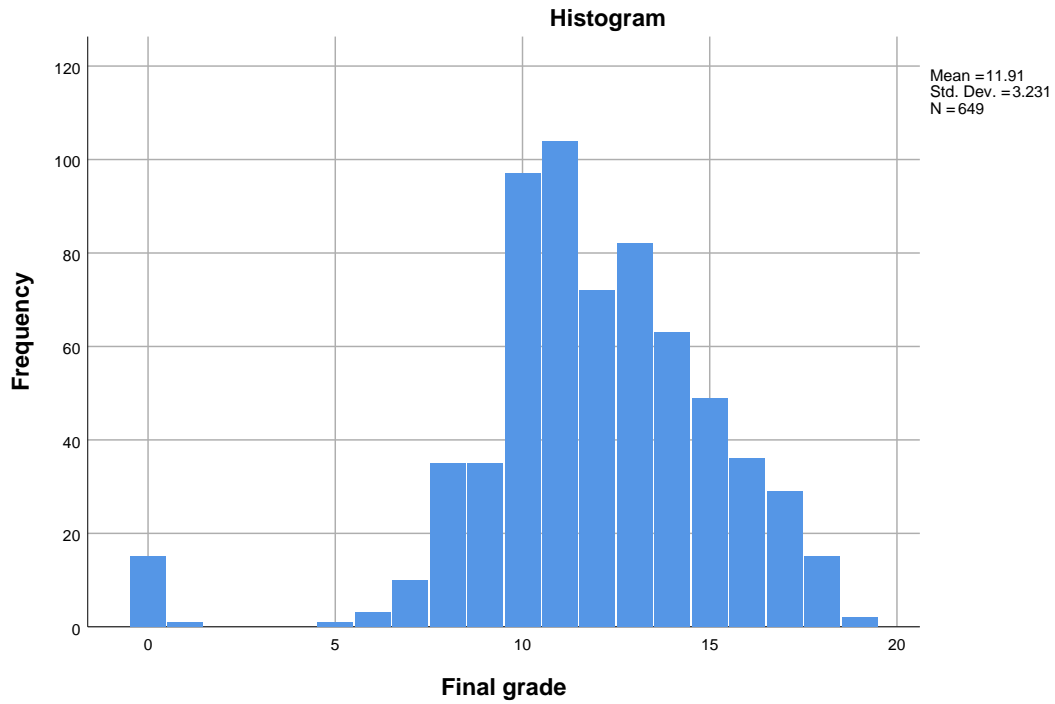
Mean Median and Mode Analysis
 Central tendency output for numeric variables and grouped fi

Descriptives

		Statistic	Std. Error	
	Interquartile Range	3		
	Skewness	-.360	.096	
	Kurtosis	1.662	.192	
First period grade	Mean	11.40	.108	
	95% Confidence Interval for Mean	Lower Bound	11.19	
		Upper Bound	11.61	
	5% Trimmed Mean	11.39		
	Median	11.00		
	Variance	7.536		
	Std. Deviation	2.745		
	Minimum	0		
	Maximum	19		
	Range	19		
	Interquartile Range	3		
	Skewness	-.003	.096	
	Kurtosis	.037	.192	
	School absences	Mean	3.66	.182
95% Confidence Interval for Mean		Lower Bound	3.30	
		Upper Bound	4.02	
5% Trimmed Mean		3.09		
Median		2.00		
Variance		21.537		
Std. Deviation		4.641		
Minimum		0		
Maximum		32		
Range		32		
Interquartile Range		6		
Skewness		2.021	.096	
Kurtosis		5.781	.192	

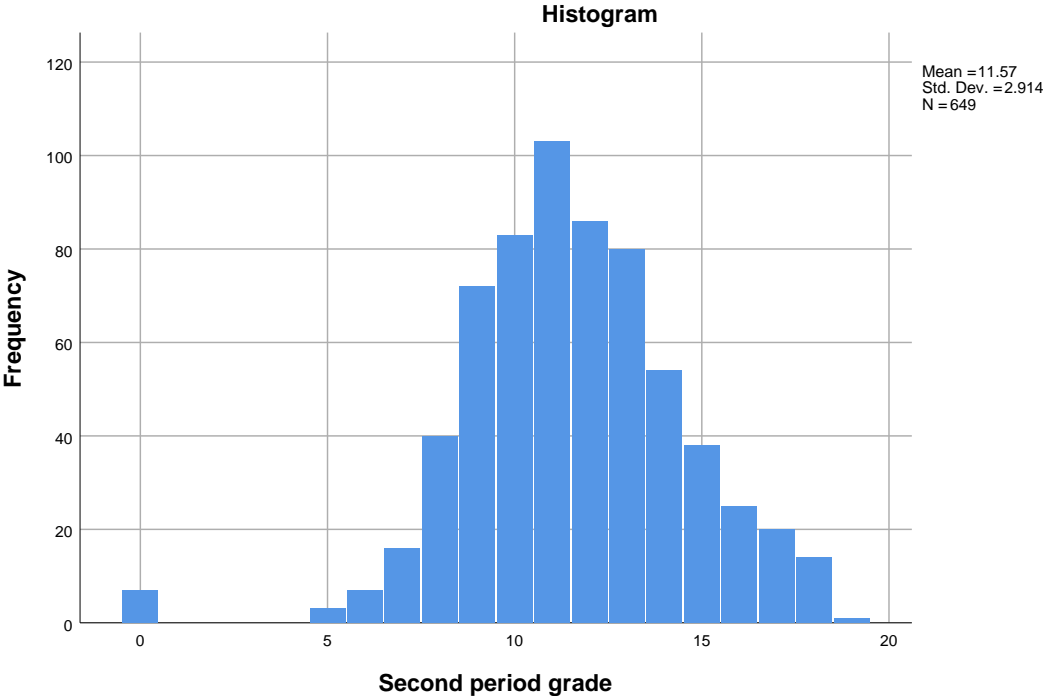
Final grade

Mean Median and Mode Analysis
Central tendency output for numeric variables and grouped fi

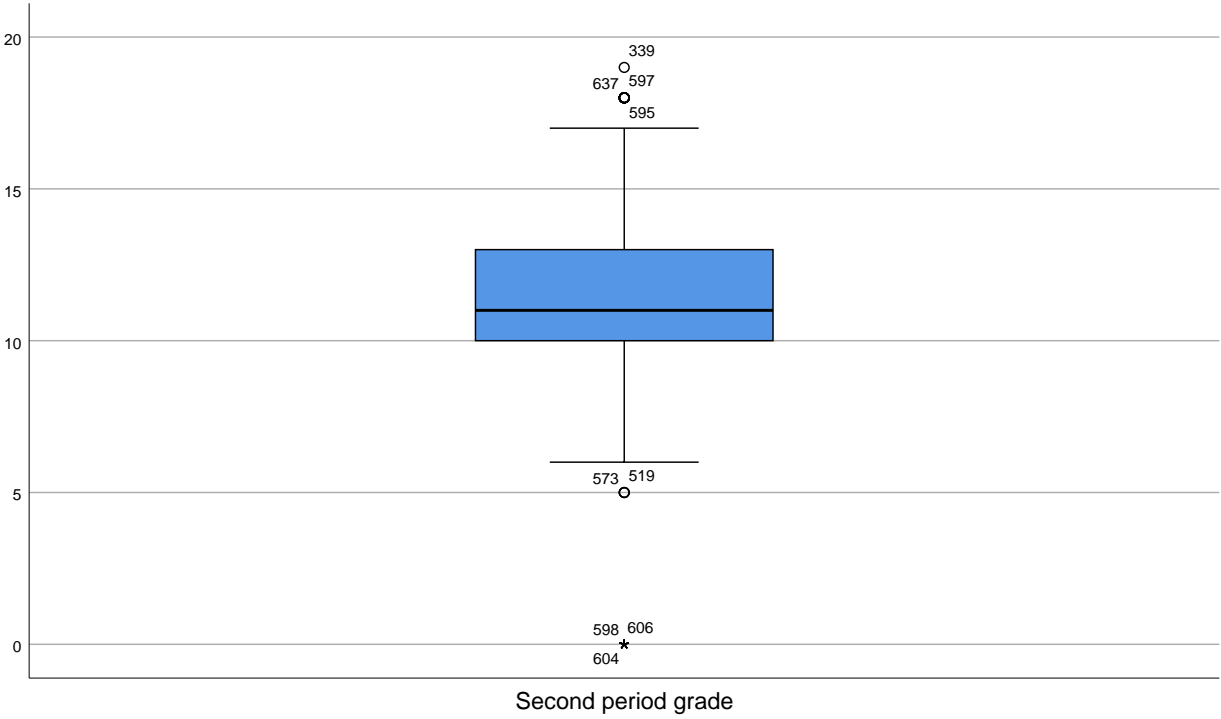


Mean Median and Mode Analysis
Central tendency output for numeric variables and grouped fi

Second period grade

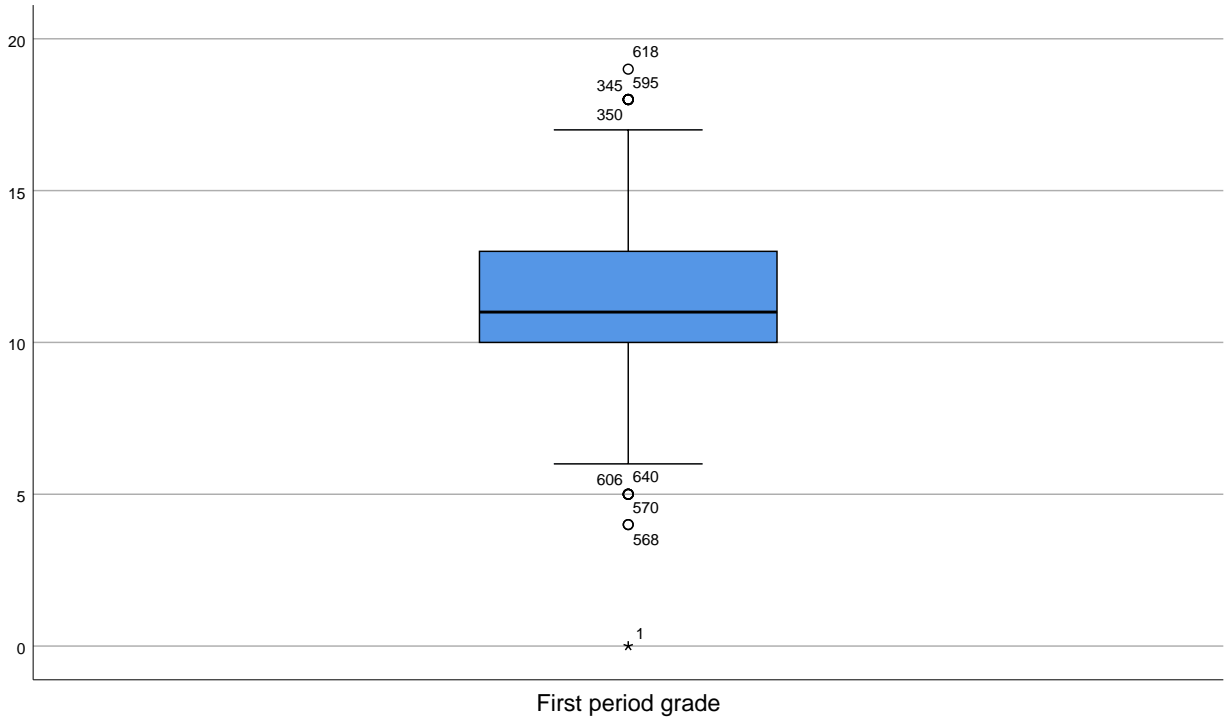
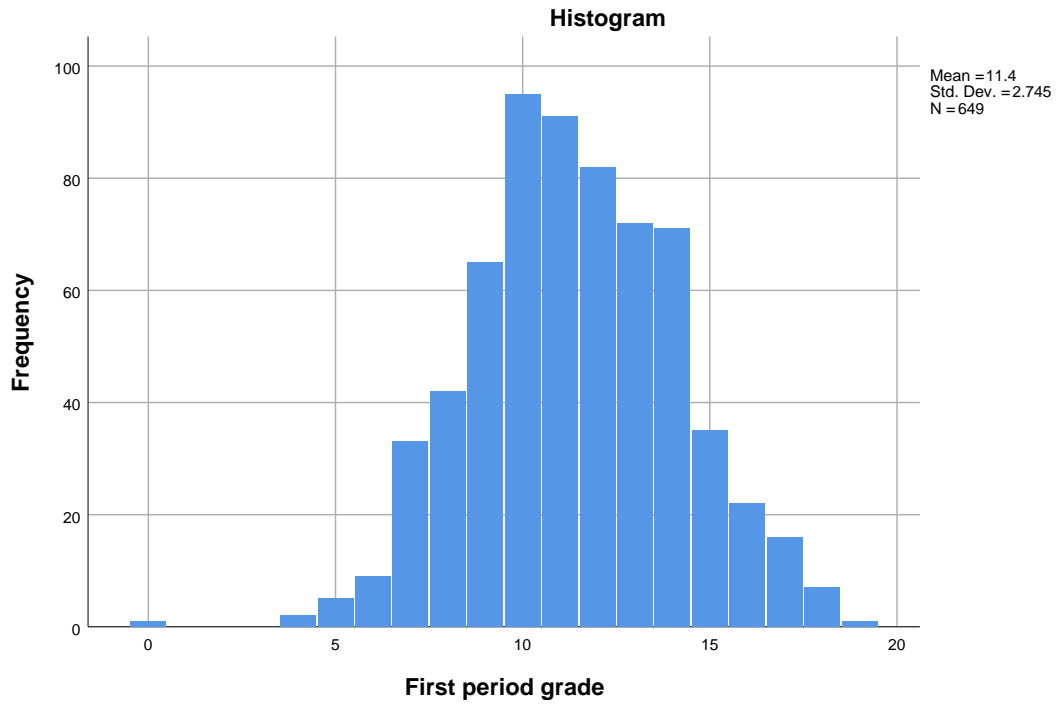


Mean Median and Mode Analysis
Central tendency output for numeric variables and grouped fi



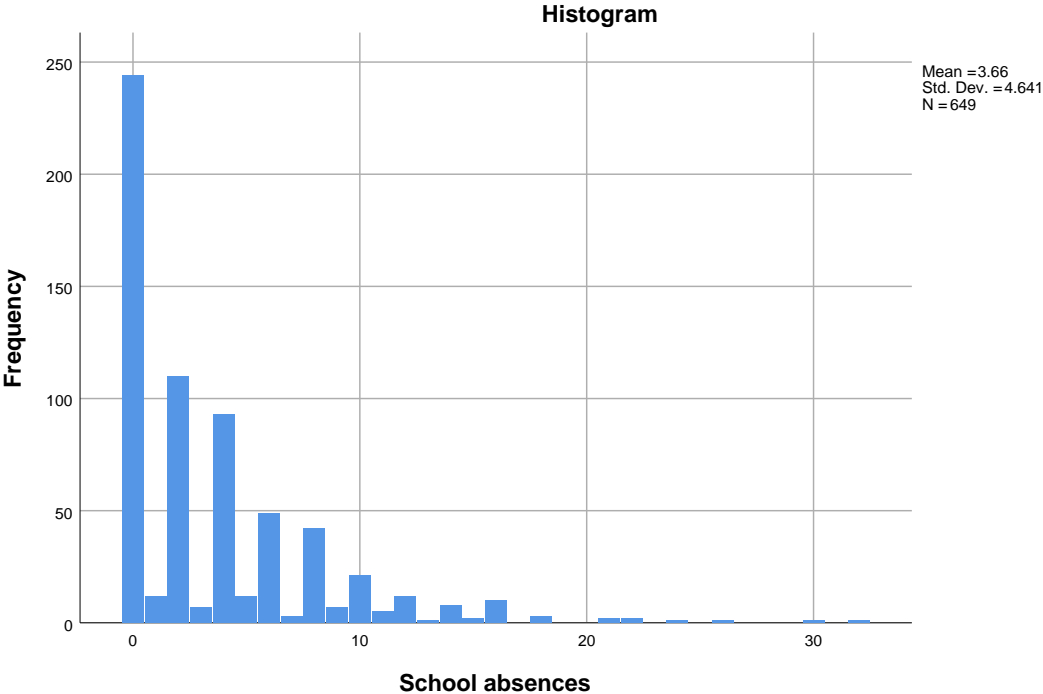
First period grade

Mean Median and Mode Analysis
Central tendency output for numeric variables and grouped fi

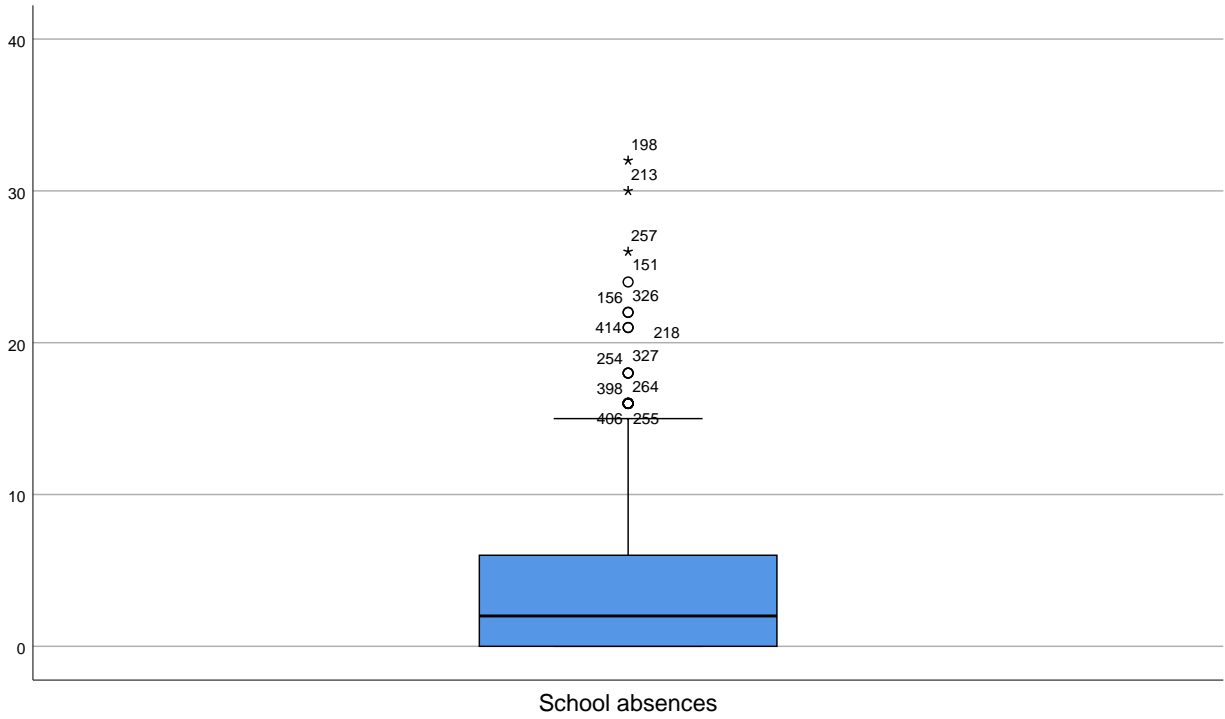


Mean Median and Mode Analysis
Central tendency output for numeric variables and grouped fi

School absences



Mean Median and Mode Analysis
 Central tendency output for numeric variables and grouped fi



Frequencies

Statistics

		Student school	Student sex	internet	higher	romantic	Weekly study time category
N	Valid	649	649	649	649	649	649
	Missing	0	0	0	0	0	0

Statistics

		Number of past class failures
N	Valid	649
	Missing	0

Frequency Table

Mean Median and Mode Analysis
Central tendency output for numeric variables and grouped fi

Student school

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	GP	423	65.2	65.2	65.2
	MS	226	34.8	34.8	100.0
	Total	649	100.0	100.0	

Student sex

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	F	383	59.0	59.0	59.0
	M	266	41.0	41.0	100.0
	Total	649	100.0	100.0	

internet

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	no	151	23.3	23.3	23.3
	yes	498	76.7	76.7	100.0
	Total	649	100.0	100.0	

higher

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	no	69	10.6	10.6	10.6
	yes	580	89.4	89.4	100.0
	Total	649	100.0	100.0	

romantic

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	no	410	63.2	63.2	63.2
	yes	239	36.8	36.8	100.0
	Total	649	100.0	100.0	

Mean Median and Mode Analysis
Central tendency output for numeric variables and grouped fi

Weekly study time category

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	212	32.7	32.7	32.7
	2	305	47.0	47.0	79.7
	3	97	14.9	14.9	94.6
	4	35	5.4	5.4	100.0
	Total	649	100.0	100.0	

Number of past class failures

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	549	84.6	84.6	84.6
	1	70	10.8	10.8	95.4
	2	16	2.5	2.5	97.8
	3	14	2.2	2.2	100.0
	Total	649	100.0	100.0	

Explore

Student school

Case Processing Summary

	Student school	Valid		Cases Missing		Total	
		N	Percent	N	Percent	N	Percent
Final grade	GP	423	100.0%	0	0.0%	423	100.0%
	MS	226	100.0%	0	0.0%	226	100.0%

Mean Median and Mode Analysis
Central tendency output for numeric variables and grouped fi

Descriptives

Student school		Statistic	Std. Error			
Final grade	GP	Mean	12.58	.128		
		95% Confidence Interval for Mean	Lower Bound	12.33		
			Upper Bound	12.83		
		5% Trimmed Mean	12.62			
		Median	13.00			
		Variance	6.894			
		Std. Deviation	2.626			
		Minimum	0			
		Maximum	19			
		Range	19			
		Interquartile Range	3			
		Skewness	-.336	.119		
		Kurtosis	1.388	.237		
		MS	MS	Mean	10.65	.255
				95% Confidence Interval for Mean	Lower Bound	10.15
Upper Bound	11.15					
5% Trimmed Mean	10.85					
Median	11.00					
Variance	14.699					
Std. Deviation	3.834					
Minimum	0					
Maximum	19					
Range	19					
Interquartile Range	4					
Skewness	-.828			.162		
Kurtosis	1.778			.322		

Explore

Student sex

Mean Median and Mode Analysis
Central tendency output for numeric variables and grouped fi

Case Processing Summary

	Student sex	Valid		Cases Missing		Total	
		N	Percent	N	Percent	N	Percent
Final grade	F	383	100.0%	0	0.0%	383	100.0%
	M	266	100.0%	0	0.0%	266	100.0%

Descriptives

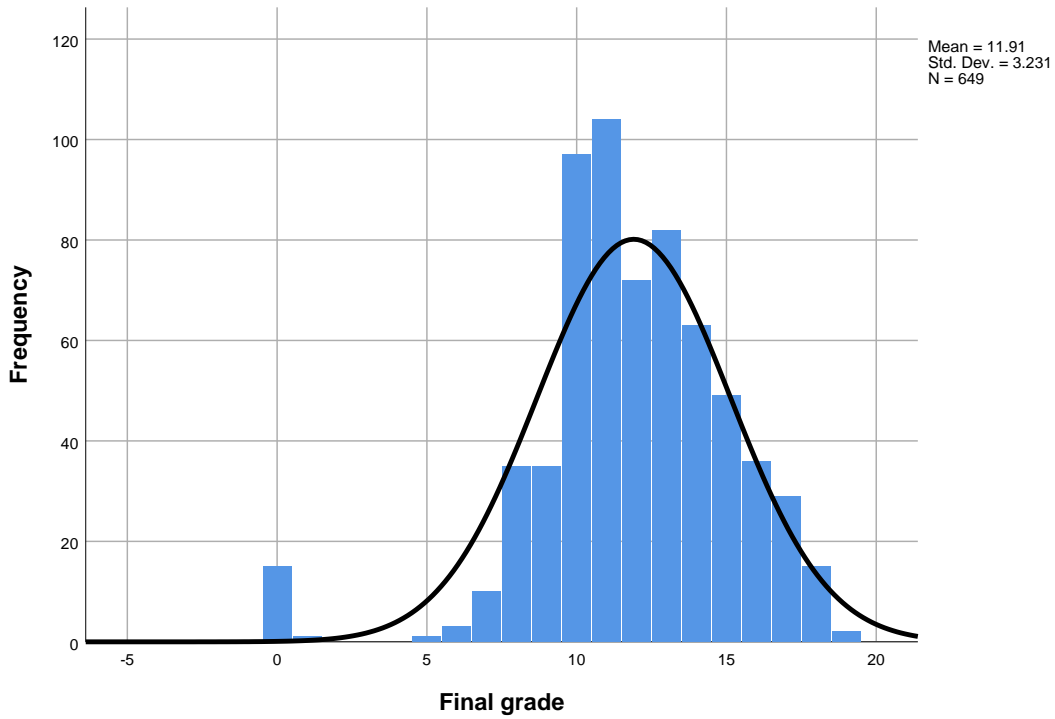
Student sex		Statistic	Std. Error		
Final grade	F	Mean	12.25	.160	
		95% Confidence Interval for Mean	Lower Bound	11.94	
			Upper Bound	12.57	
		5% Trimmed Mean	12.37		
		Median	12.00		
		Variance	9.760		
		Std. Deviation	3.124		
		Minimum	0		
		Maximum	19		
		Range	19		
		Interquartile Range	4		
		Skewness	-.857	.125	
		Kurtosis	2.683	.249	
		M	M	Mean	11.41
95% Confidence Interval for Mean	Lower Bound			11.01	
	Upper Bound			11.81	
5% Trimmed Mean	11.60				
Median	11.00				
Variance	11.027				
Std. Deviation	3.321				
Minimum	0				
Maximum	19				
Range	19				
Interquartile Range	3				
Skewness	-.980			.149	

Mean Median and Mode Analysis
Central tendency output for numeric variables and grouped fi

Descriptives

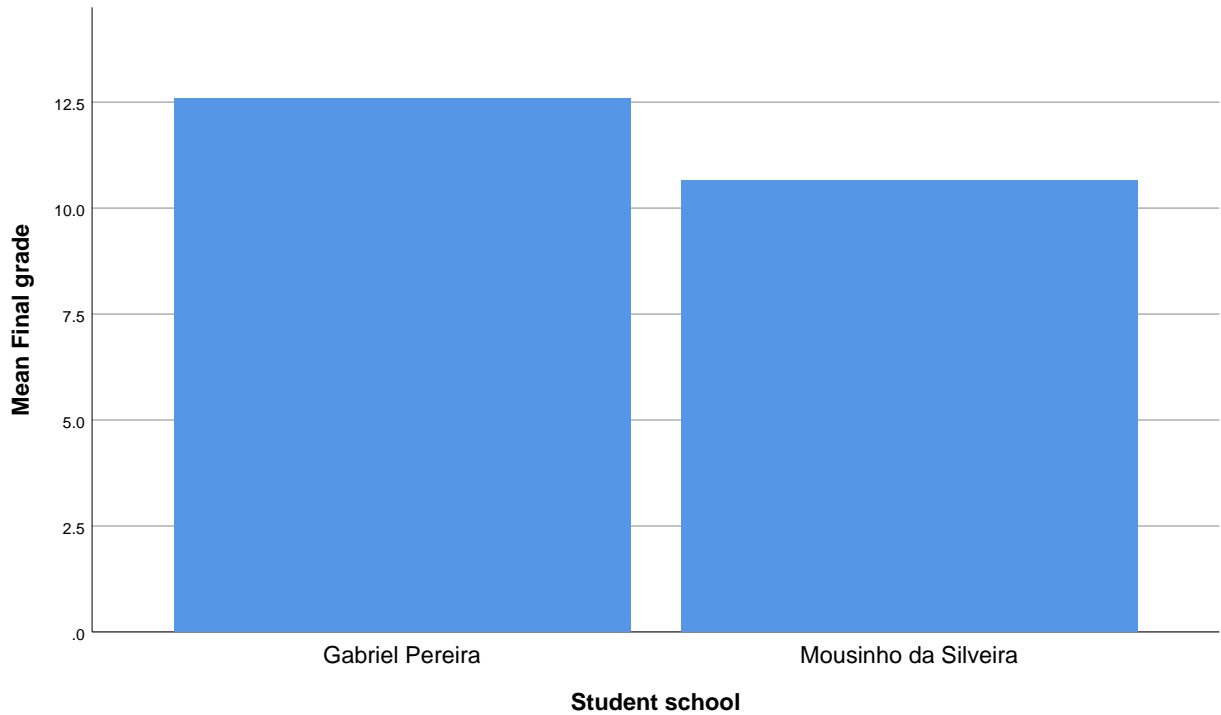
Student sex	Statistic	Std. Error
Kurtosis	2.803	.298

Graph



Graph

Mean Median and Mode Analysis
Central tendency output for numeric variables and grouped fi



Data written to D:\DATA ANALYSIS\...\Mean Median and Mode\SPSS_Output\clean_data\spss_ready_data.csv.

33 variables and 649 cases written.

Variable: school	Type: String	Width: 2	
Variable: sex	Type: String	Width: 1	
Variable: age	Type: Number	Width: 2	Dec: 0
Variable: address	Type: String	Width: 1	
Variable: famsize	Type: String	Width: 3	
Variable: Pstatus	Type: String	Width: 1	
Variable: Medu	Type: Number	Width: 1	Dec: 0
Variable: Fedu	Type: Number	Width: 1	Dec: 0
Variable: Mjob	Type: String	Width: 12	
Variable: Fjob	Type: String	Width: 12	
Variable: reason	Type: String	Width: 12	
Variable: guardian	Type: String	Width: 12	
Variable: traveltime	Type: Number	Width: 1	Dec: 0
Variable: studytime	Type: Number	Width: 1	Dec: 0
Variable: failures	Type: Number	Width: 1	Dec: 0
Variable: schoolsup	Type: String	Width: 3	
Variable: famsup	Type: String	Width: 3	

Mean Median and Mode Analysis
Central tendency output for numeric variables and grouped fi

Variable: paid	Type: String	Width: 3		
Variable: activities	Type: String	Width: 3		
Variable: nursery	Type: String	Width: 3		
Variable: higher	Type: String	Width: 3		
Variable: internet	Type: String	Width: 3		
Variable: romantic	Type: String	Width: 3		
Variable: famrel	Type: Number	Width: 1	Dec: 0	
Variable: freetime	Type: Number	Width: 1	Dec: 0	
Variable: goout	Type: Number	Width: 1	Dec: 0	
Variable: Dalc	Type: Number	Width: 1	Dec: 0	
Variable: Walc	Type: Number	Width: 1	Dec: 0	
Variable: health	Type: Number	Width: 1	Dec: 0	
Variable: absences	Type: Number	Width: 3	Dec: 0	
Variable: G1	Type: Number	Width: 2	Dec: 0	
Variable: G2	Type: Number	Width: 2	Dec: 0	
Variable: G3	Type: Number	Width: 2	Dec: 0	