Number of Years of Experince in Programming

Case Processing Summary

	Number of Years of Experince in Programming	Cases			
		Valid		Missing	
		N	Percent	N	Percent
Grdaes With Type Hints	Beginner	70	100.0%	0	0.0%
	Intermediate	33	100.0%	0	0.0%
	Advanced	6	100.0%	0	0.0%
	Proficent	3	100.0%	0	0.0%

Case Processing Summary

	Number of Years of Experince in Programming	Cases	
		Total	
		N	Percent
Grdaes With Type Hints	Beginner	70	100.0%
	Intermediate	33	100.0%
	Advanced	6	100.0%
	Proficent	3	100.0%

Descriptives

	Number of Years of Experience in Programming			Statistic
Grdaes With Type Hints	Beginner	Mean		4.99
		95% Confidence Interval for Mean	Lower Bound	3.87
			Upper Bound	6.10
		5% Trimmed Mean		4.66
		Median		3.50
		Variance		21.898
		Std. Deviation		4.680
		Minimum		0
		Maximum		16
		Range		16
		Interquartile Range		6
		Skewness		1.076
		Kurtosis		.061
	Intermediate	Mean		7.21
		95% Confidence Interval for Mean	Lower Bound	5.45
			Upper Bound	8.97
		5% Trimmed Mean		6.96
		Median		6.00
		Variance		24.672
		Std. Deviation		4.967

Descriptives

		Number of Years of Experince in Programming		Std. Error
Grdaes With Type Hints	Beginner	Mean		.559
		95% Confidence Interval for Mean	Lower Bound	
			Upper Bound	
		5% Trimmed Mean		
		Median		
		Variance		
		Std. Deviation		
		Minimum		
		Maximum		
		Range		
		Interquartile Range		
		Skewness		.287
		Kurtosis		.566
	Intermediate	Mean		.865
		95% Confidence Interval for Mean	Lower Bound	
			Upper Bound	
		5% Trimmed Mean		
		Median		
		Variance		
		Std. Deviation		

Descriptives

Number of Years of Experince in Programming			Statistic
	Minimum		1
	Maximum		18
	Range		17
	Interquartile Range		8
	Skewness		.698
	Kurtosis		-.476
Advanced	Mean		10.67
	95% Confidence Interval for Mean	Lower Bound	6.33
		Upper Bound	15.00
	5% Trimmed Mean		10.69
	Median		11.00
	Variance		17.067
	Std. Deviation		4.131
	Minimum		5
	Maximum		16
	Range		11
	Interquartile Range		8
	Skewness		-.181
	Kurtosis		-1.096
Proficent	Mean		9.00
	95% Confidence Interval for Mean	Lower Bound	-10.72
		Upper Bound	28.72
	5% Trimmed Mean		.
	Median		12.00
	Variance		63.000
	Std. Deviation		7.937
	Minimum		0
	Maximum		15
	Range		15
	Interquartile Range		.
	Skewness		-1.458
	Kurtosis		.

Descriptives

Number of Years of Experince in Programming			Std. Error
		Minimum	
		Maximum	
		Range	
		Interquartile Range	
		Skewness	.409
		Kurtosis	.798
Advanced		Mean	1.687
	95% Confidence Interval for Mean	Lower Bound	
		Upper Bound	
		5% Trimmed Mean	
		Median	
		Variance	
		Std. Deviation	
		Minimum	
		Maximum	
		Range	
		Interquartile Range	
		Skewness	.845
		Kurtosis	1.741
Proficent		Mean	4.583
	95% Confidence Interval for Mean	Lower Bound	
		Upper Bound	
		5% Trimmed Mean	
		Median	
		Variance	
		Std. Deviation	
		Minimum	
		Maximum	
		Range	
		Interquartile Range	
		Skewness	1.225
		Kurtosis	.

Extreme Values[b]

	Number of Years of Experince in Programming			Case Number	Value
Grdaes With Type Hints	Beginner	Highest	1	3	16
			2	31	16
			3	49	16
			4	5	15
			5	80	15
		Lowest	1	75	0
			2	56	0
			3	46	0
			4	45	0
			5	14	0
	Intermediate	Highest	1	26	18
			2	30	18
			3	33	16
			4	101	14
			5	102	13
		Lowest	1	107	1
			2	36	1
			3	87	2
			4	71	2
			5	58	2[a]
	Advanced	Highest	1	4	16
			2	53	14
			3	7	11[c]
		Lowest	1	44	5
			2	20	7
			3	38	11[d]
	Proficent	Highest	1	16	15
		Lowest	1	29	0

a. Only a partial list of cases with the value 2 are shown in the table of lower extremes.

b. The requested number of extreme values exceeds the number of data points. A smaller number of extremes is displayed.

c. Only a partial list of cases with the value 11 are shown in the table of upper extremes.

d. Only a partial list of cases with the value 11 are shown in the table of lower extremes.

Tests of Normality

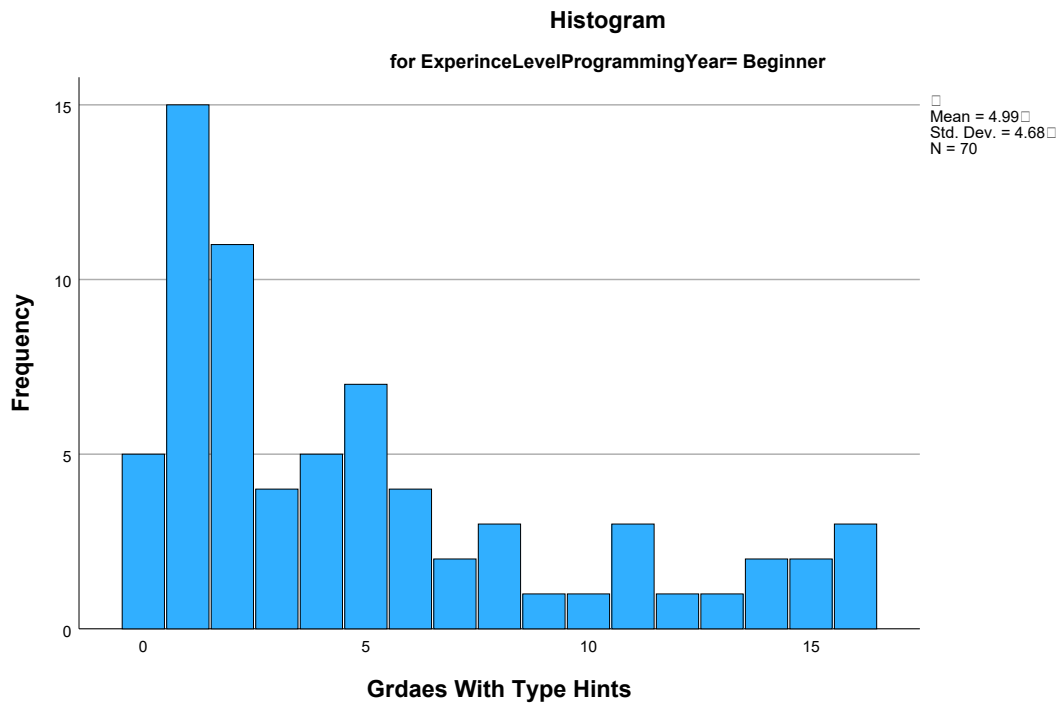|	Number of Years of Experince in Programming	Kolmogorov-Smirnov[a]			Shapiro-...
		Statistic	df	Sig.	Statistic
Grdaes With Type Hints	Beginner	.181	70	<.001	.848
	Intermediate	.142	33	.090	.916
	Advanced	.199	6	.200[*]	.957
	Proficent	.314	3	.	.893

Tests of Normality

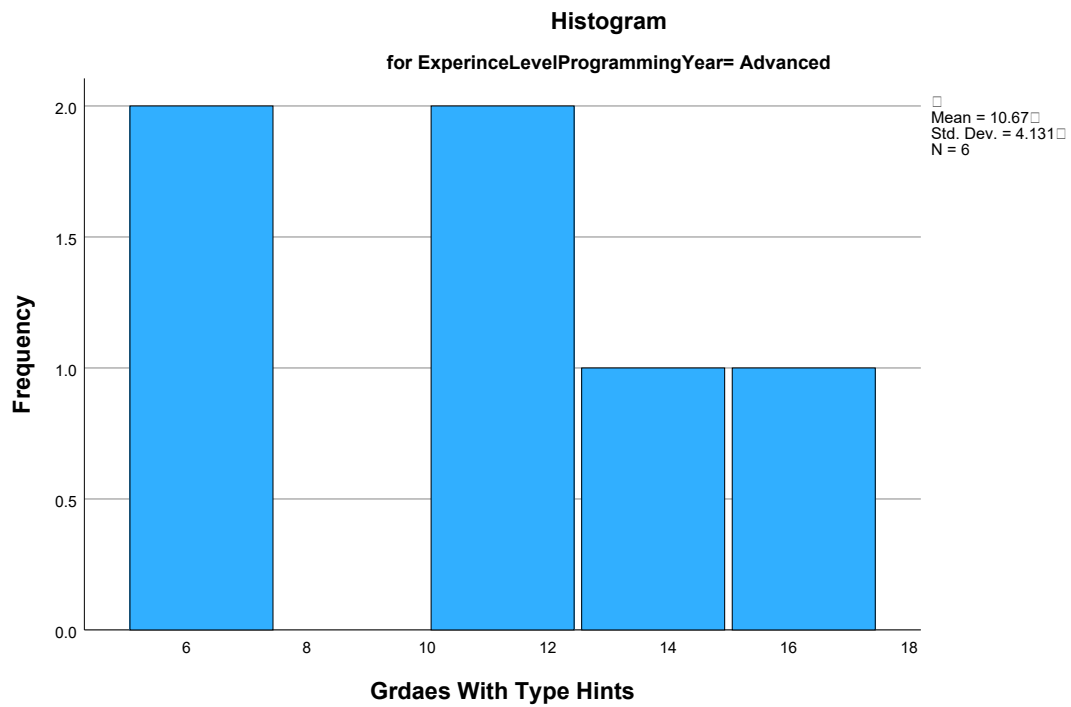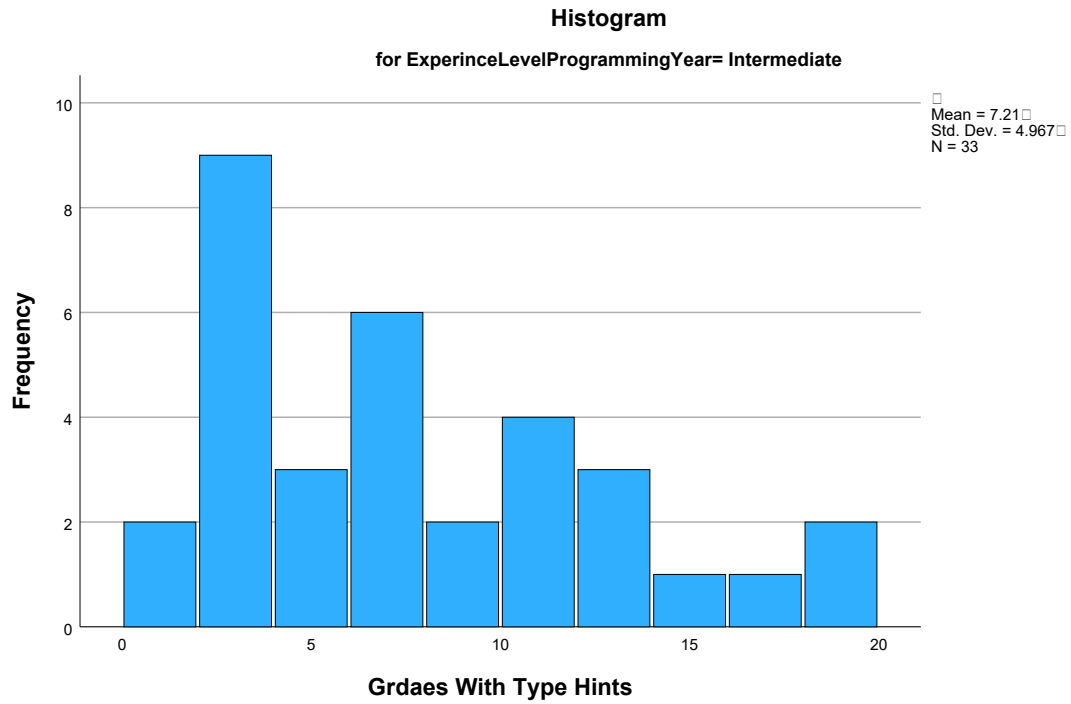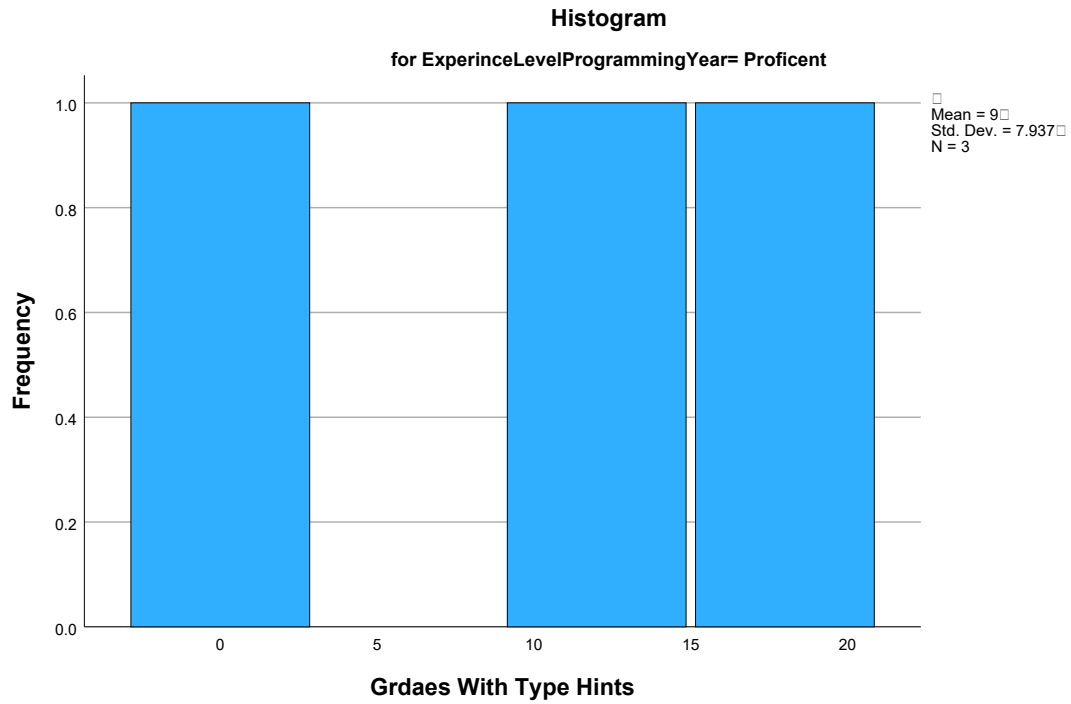|	Number of Years of Experince in Programming	Shapiro-Wilk	
		df	Sig.
Grdaes With Type Hints	Beginner	70	<.001
	Intermediate	33	.015
	Advanced	6	.798
	Proficent	3	.363

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Grdaes With Type Hints

Histograms

Histogram
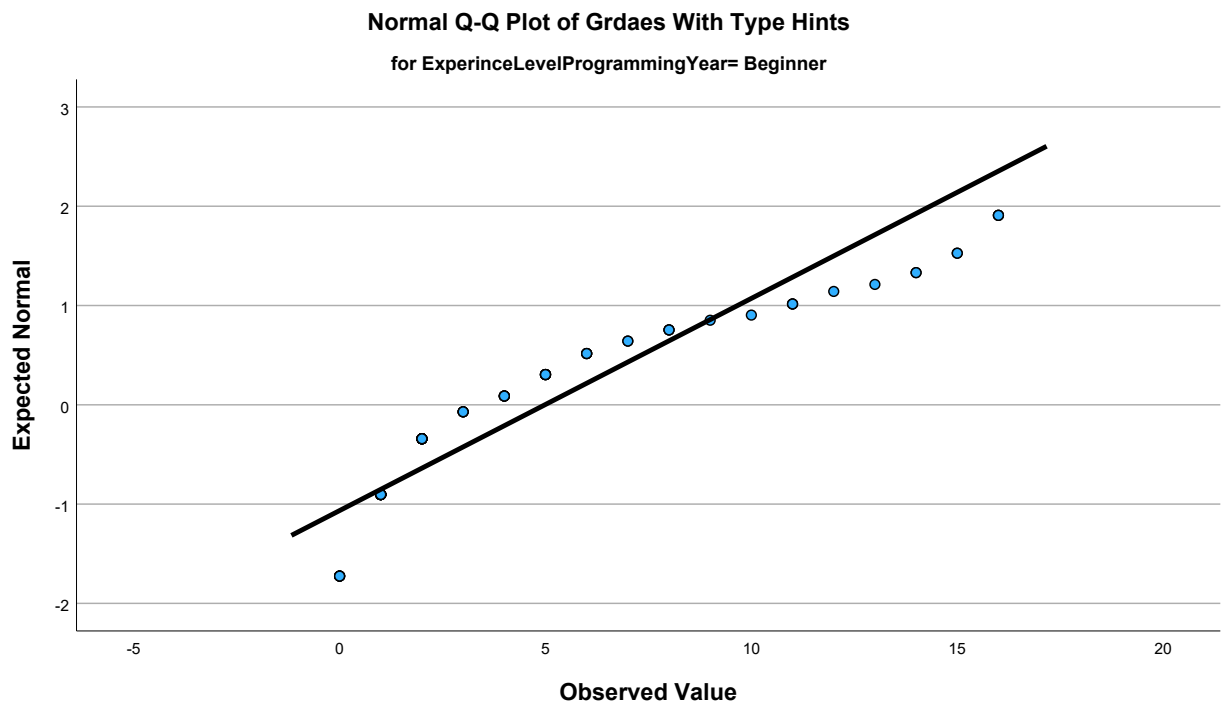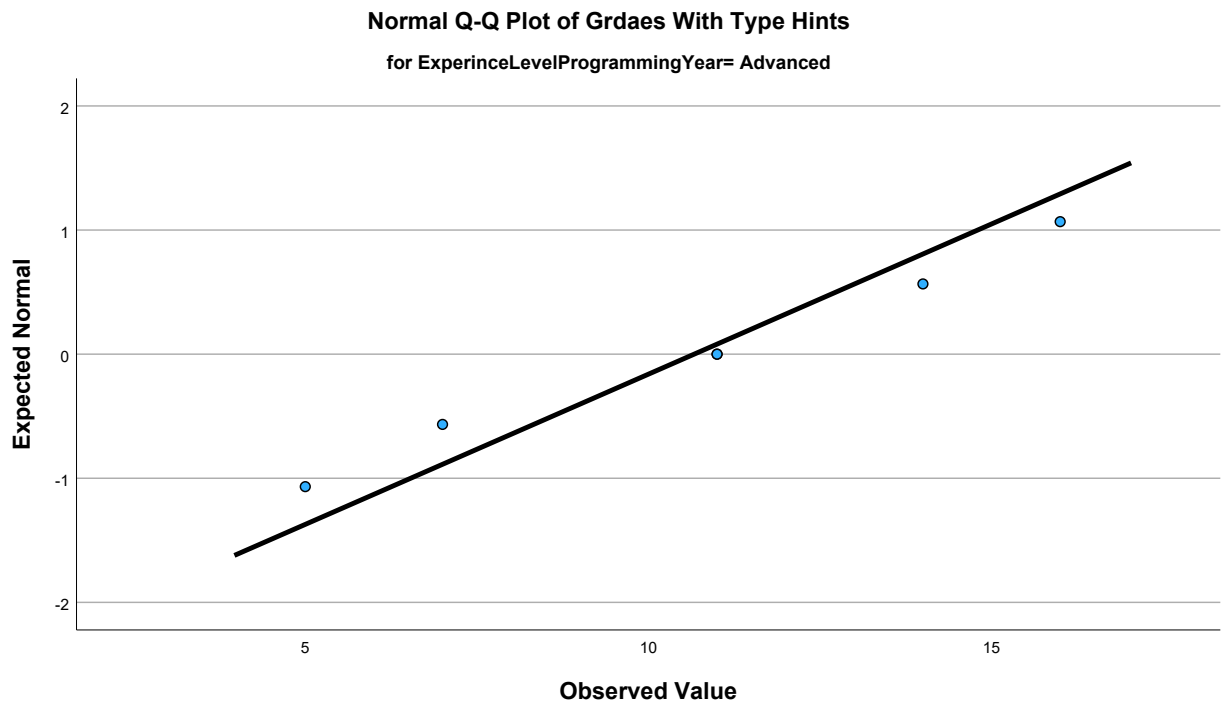
for ExperinceLevelProgrammingYear= Beginner

Mean = 4.99
Std. Dev. = 4.68
N = 70

Histogram

for ExperinceLevelProgrammingYear= Intermediate

Mean = 7.21
Std. Dev. = 4.967
N = 33

Frequency vs Grdaes With Type Hints

Histogram

for ExperinceLevelProgrammingYear= Advanced

Mean = 10.67
Std. Dev. = 4.131
N = 6

Frequency vs Grdaes With Type Hints

Histogram

for ExperinceLevelProgrammingYear= Proficent

Mean = 9
Std. Dev. = 7.937
N = 3

Normal Q-Q Plots

Normal Q-Q Plot of Grdaes With Type Hints

for ExperinceLevelProgrammingYear= Beginner

Normal Q-Q Plot of Grdaes With Type Hints

for ExperinceLevelProgrammingYear= Intermediate

Normal Q-Q Plot of Grdaes With Type Hints

for ExperinceLevelProgrammingYear= Advanced

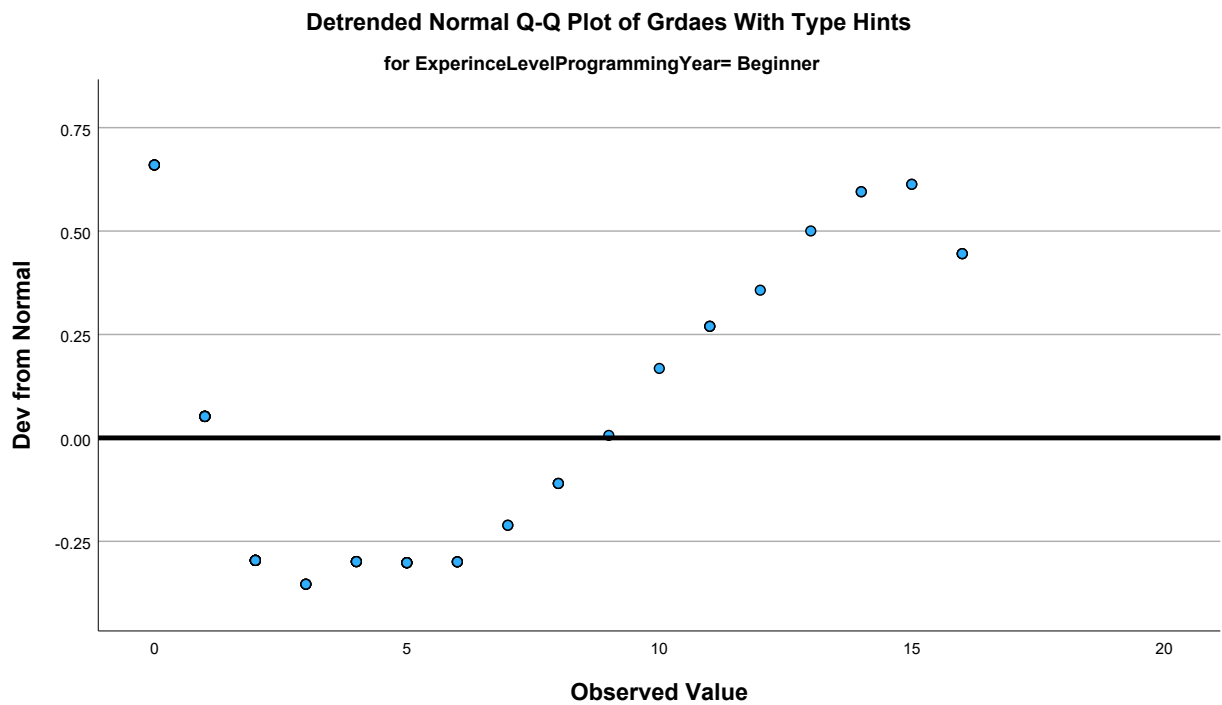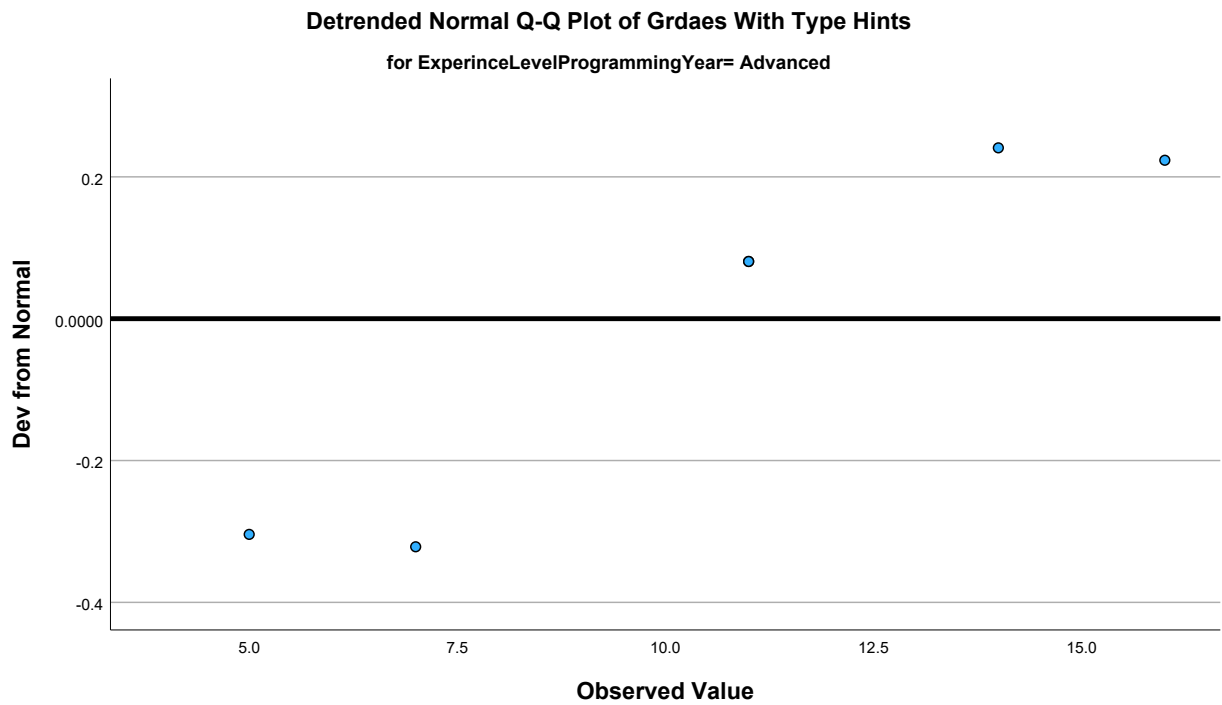## Normal Q-Q Plot of Grdaes With Type Hints

for ExperinceLevelProgrammingYear= Proficent

Detrended Normal Q-Q Plots

Detrended Normal Q-Q Plot of Grdaes With Type Hints

for ExperinceLevelProgrammingYear= Beginner

Detrended Normal Q-Q Plot of Grdaes With Type Hints

for ExperinceLevelProgrammingYear= Intermediate
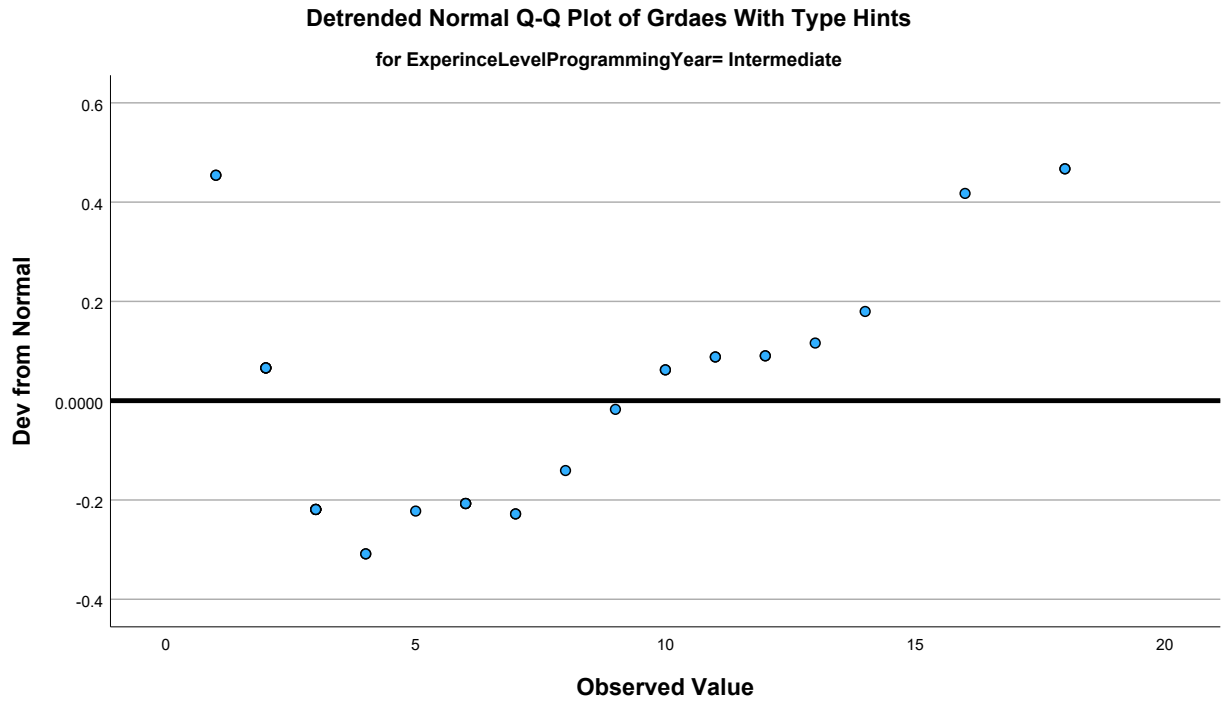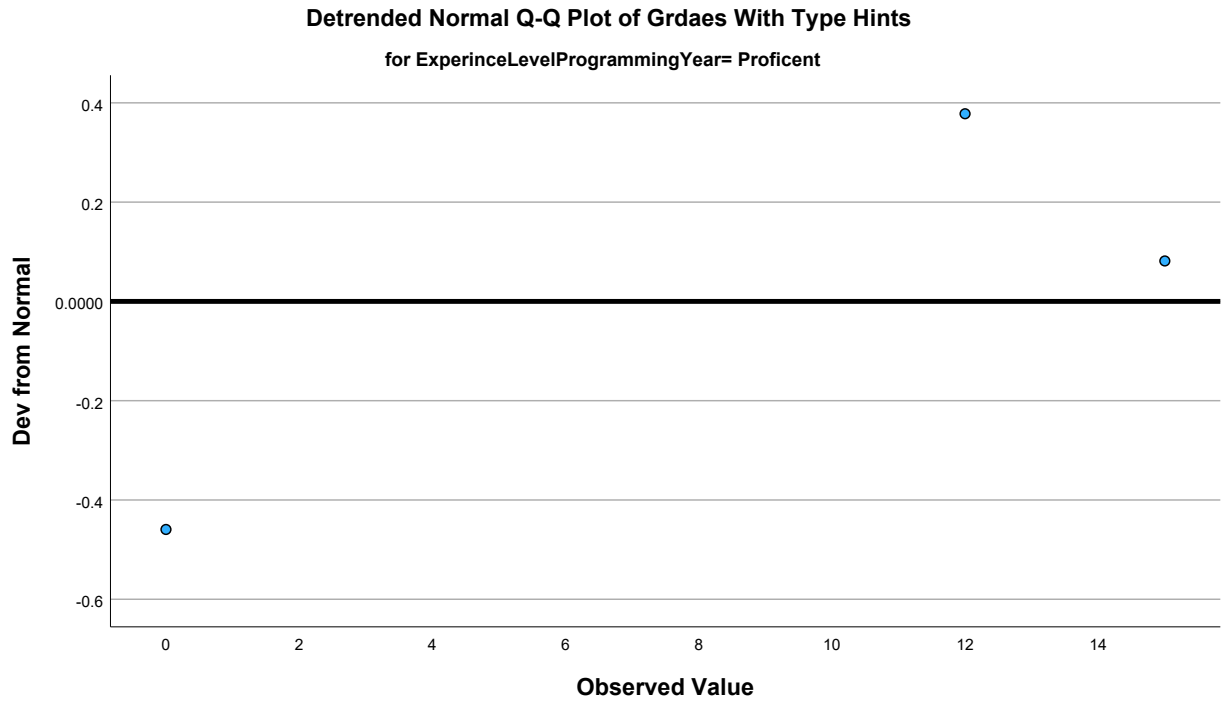

Detrended Normal Q-Q Plot of Grdaes With Type Hints

for ExperinceLevelProgrammingYear= Advanced

Detrended Normal Q-Q Plot of Grdaes With Type Hints

for ExperinceLevelProgrammingYear= Proficent

Boxplots