Program Summary - adhoc and normality for OUTPUT (DEPENDENT VARIABLES) var.sas

Execution Environment

Author: u64136608

File: /home/u64136608/STAT 520 PROJECT/adhoc and normality for OUTPUT (DEPENDENT VARIABLES) var.sas

SAS Platform: Linux LIN X64 5.14.0-284.30.1.el9_2.x86_64

SAS Host: ODAWS01-USW2.ODA.SAS.COM

SAS Version: 9.04.01M8P02222023

SAS Locale: en US

Submission Time: 10/19/2025, 11:59:44 AM

Browser Host: 104-63-252-32.LIGHTSPEED.SNDGCA.SBCGLOBAL.NET

User Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/141.0.0.0

Safari/537.36

Application Server: ODAMID00-USW2.ODA.SAS.COM

Code: adhoc and normality for OUTPUT (DEPENDENT VARIABLES) var.sas

```
ods noproctitle;
/*** Analyze numeric variables ***/
title "Descriptive Statistics for Numeric Variables";
proc means data=STPROJ.RCHERI n nmiss min mean median max std;
    var SATIS28 COLLGPA SLFCHG01 SLFCHG02 SLFCHG03 SLFCHG04 CSSRAT01 CSSRAT07 Success4 SATIS13;
run;
title;
proc univariate data=STPROJ.RCHERI noprint;
    histogram SATIS28 COLLGPA SLFCHG01 SLFCHG02 SLFCHG03 SLFCHG04 CSSRAT01 CSSRAT07 Success4 SATIS13;
run;
title;
title "Histograms for Selected Variables";
proc univariate data=STPROJ.RCHERI;
    var SATIS28 COLLGPA SLFCHG01 SLFCHG02 SLFCHG03 SLFCHG04 CSSRAT01 CSSRAT07 Success4 SATIS13;
   histogram / normal; /* includes normal curve */
/*** Histograms & Normality Tests ***/
title "Histograms and Normality Tests";
proc univariate data=STPROJ.RCHERI normal;
    var SATIS28 COLLGPA SLFCHG01 SLFCHG02 SLFCHG03 SLFCHG04 CSSRAT01 CSSRAT07 Success4 SATIS13;
    histogram / normal; /* Shows distribution with normal curve */
    inset n mean std skewness kurtosis / position=ne;
run;
title;
/*** Optional: Correlations Between Variables ***/
title "Correlation Matrix (Ad-Hoc Association Check)";
proc corr data=STPROJ.RCHERI pearson spearman;
    var SATIS28 COLLGPA SLFCHG01 SLFCHG02 SLFCHG03 SLFCHG04 CSSRAT01 CSSRAT07 Success4 SATIS13;
run;
```

Log: adhoc and normality for OUTPUT (DEPENDENT VARIABLES) var.sas

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Notes (7)

```
OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
NOTE: ODS statements in the SAS Studio environment may disable some output features.
70
           ods noproctitle;
71
72
           /*** Analyze numeric variables ***/
           title "Descriptive Statistics for Numeric Variables";
73
74
75
           proc means data=STPROJ.RCHERI n nmiss min mean median max std;
76
           var SATIS28 COLLGPA SLFCHG01 SLFCHG02 SLFCHG03 SLFCHG04 CSSRAT01 CSSRAT07 Success4 SATIS13;
77
           run:
NOTE: There were 5000 observations read from the data set STPROJ.RCHERI.
NOTE: PROCEDURE MEANS used (Total process time):
      real time
                         0.04 seconds
                       0.04 seconds
      user cpu time
      system cpu time 0.00 seconds
                         8516.03k
      memory
      OS Memory
                         37572.00k
                       10/19/2025 06:59:41 PM
      Timestamp
      Step Count
                                        71 Switch Count 3
      Page Faults
                                        a
                                        1584
      Page Reclaims
      Page Swaps
      Voluntary Context Switches
                                        29
      Involuntary Context Switches
                                        2
      Block Input Operations
                                        0
      Block Output Operations
                                        0
78
79
          title;
80
81
           proc univariate data=STPROJ.RCHERI noprint;
82
           histogram SATIS28 COLLGPA SLFCHG01 SLFCHG02 SLFCHG03 SLFCHG04 CSSRAT01 CSSRAT07 Success4 SATIS13;
83
NOTE: PROCEDURE UNIVARIATE used (Total process time):
      real time 0.72 seconds
      user cpu time 0.53 seconds
system cpu time 0.05 seconds
memory 29212.43k
                        55820.00k
      OS Memory
                        10/19/2025 06:59:41 PM
      Timestamp
      Step Count
                                        72 Switch Count 3
      Page Faults
      Page Reclaims
                                        9407
      Page Swaps
                                        967
      Voluntary Context Switches
      Involuntary Context Switches
                                        22
      Block Input Operations
      Block Output Operations
                                        1288
84
85
          title;
86
           /* ----- HISTOGRAMS ----- */
87
88
           title "Histograms for Selected Variables";
           proc univariate data=STPROJ.RCHERI;
89
               var SATIS28 COLLGPA SLFCHG01 SLFCHG02 SLFCHG03 SLFCHG04 CSSRAT01 CSSRAT07 Success4 SATIS13;
90
91
               histogram / normal; /* includes normal curve */
           run;
NOTE: PROCEDURE UNIVARIATE used (Total process time):
                 1.09 seconds
      real time
      user cpu time
                         0.83 seconds
      system cpu time 0.04 seconds
                        8998.93k
      memory
      OS Memory
                         51212.00k
```

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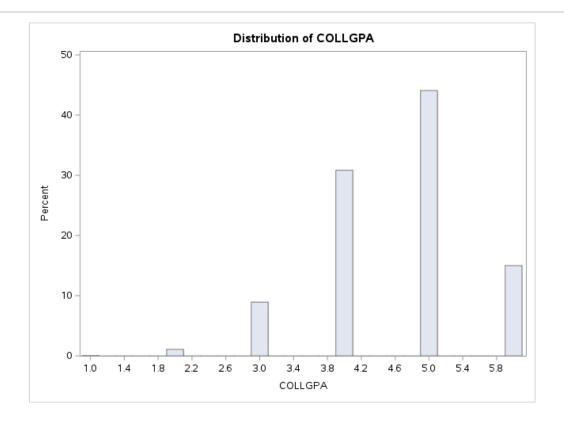
```
10/19/2025 06:59:42 PM
      Timestamp
      Step Count
                                        73 Switch Count 4
      Page Faults
                                        0
                                        3958
      Page Reclaims
      Page Swaps
      Voluntary Context Switches
                                        7591
      Involuntary Context Switches
                                        25
      Block Input Operations
                                        a
      Block Output Operations
                                        2072
           /*** Histograms & Normality Tests ***/
93
          title "Histograms and Normality Tests";
94
95
96
           proc univariate data=STPROJ.RCHERI normal;
97
               var SATIS28 COLLGPA SLFCHG01 SLFCHG02 SLFCHG03 SLFCHG04 CSSRAT01 CSSRAT07 Success4 SATIS13;
98
               histogram / normal; /* Shows distribution with normal curve */
99
               inset n mean std skewness kurtosis / position=ne;
100
           run;
NOTE: PROCEDURE UNIVARIATE used (Total process time):
      real time
                         1.36 seconds
      user cpu time
                         0.91 seconds
      system cpu time 0.05 seconds
                         9218.78k
      memory
      OS Memory
                         51468.00k
      Timestamp
                         10/19/2025 06:59:44 PM
      Step Count
                                        74 Switch Count 4
      Page Faults
                                        0
                                        3889
      Page Reclaims
      Page Swaps
                                        0
      Voluntary Context Switches
                                        7610
      Involuntary Context Switches
      Block Input Operations
                                        0
      Block Output Operations
                                        3968
101
102
          title;
103
104
           /*** Optional: Correlations Between Variables ***/
105
           title "Correlation Matrix (Ad-Hoc Association Check)";
106
           proc corr data=STPROJ.RCHERI pearson spearman;
107
               var SATIS28 COLLGPA SLFCHG01 SLFCHG02 SLFCHG03 SLFCHG04 CSSRAT01 CSSRAT07 Success4 SATIS13;
108
           run;
NOTE: PROCEDURE CORR used (Total process time):
                 0.19 seconds
      real time
      user cpu time
                          0.18 seconds
      system cpu time
                          0.01 seconds
      memory
                         3296.59k
      OS Memory
                         50096.00k
                         10/19/2025 06:59:44 PM
      Timestamp
      Step Count
                                        75 Switch Count 4
                                        0
      Page Faults
      Page Reclaims
                                        244
      Page Swaps
                                        a
      Voluntary Context Switches
                                        19
      Involuntary Context Switches
                                        2
      Block Input Operations
                                        0
      Block Output Operations
                                        64
109
110
111
           OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
121
```

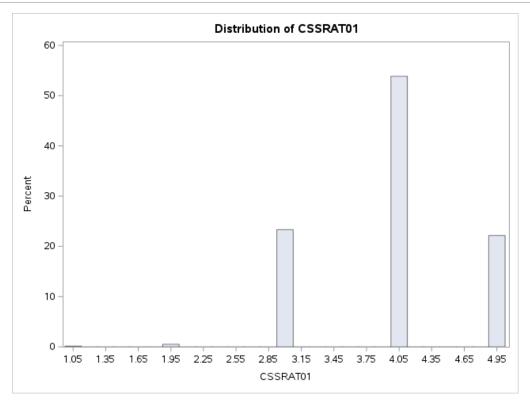
Results: adhoc and normality for OUTPUT (DEPENDENT VARIABLES) var.sas

Descriptive Statistics for Numeric Variables

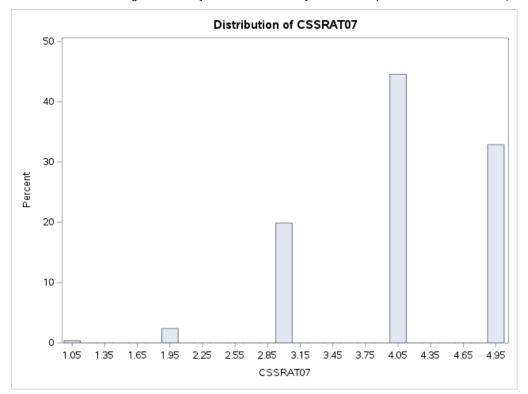
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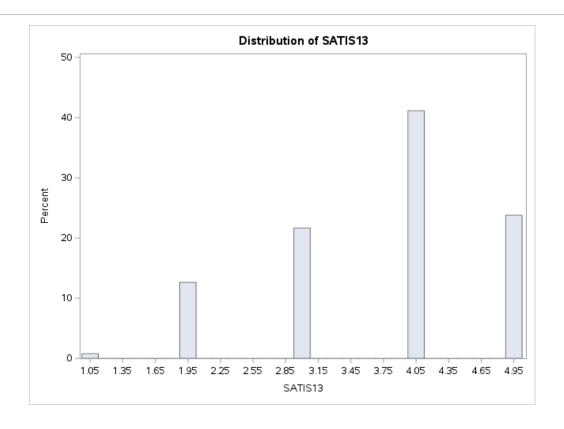
Variable	N	N Miss	Minimum	Mean	Median	Maximum	Std Dev
SATIS28	4950	50	1.0000000	4.1660606	4.0000000	5.0000000	0.7534521
COLLGPA	4961	39	1.0000000	4.6278976	5.0000000	6.0000000	0.8859453
SLFCHG01	4937	63	1.0000000	4.4731618	5.0000000	5.0000000	0.5751284
SLFCHG02	4931	69	1.0000000	4.3058203	4.0000000	5.0000000	0.6160173
SLFCHG03	4930	70	1.0000000	4.6397566	5.0000000	5.0000000	0.5367802
SLFCHG04	4930	70	1.0000000	4.3604462	4.0000000	5.0000000	0.6212715
CSSRAT01	4901	99	1.0000000	3.9738829	4.0000000	5.0000000	0.6981984
CSSRAT07	4896	104	1.0000000	4.0729167	4.0000000	5.0000000	0.8040969
SUCCESS4	4914	86	1.0000000	2.6320716	3.0000000	3.0000000	0.5145522
SATIS13	4954	46	1.0000000	3.7454582	4.0000000	5.0000000	0.9825885



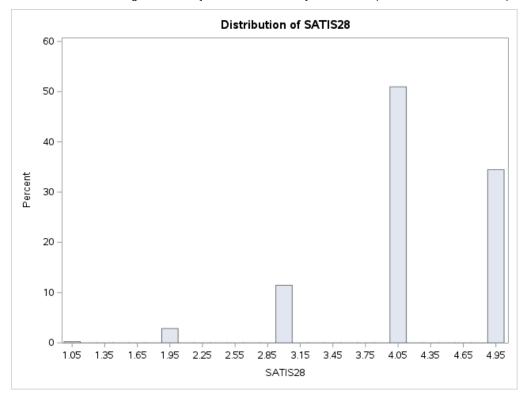


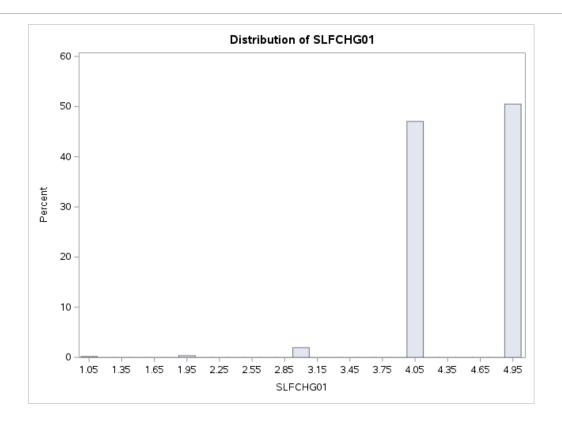
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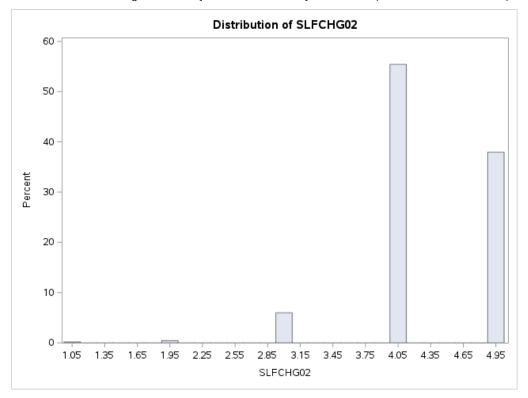


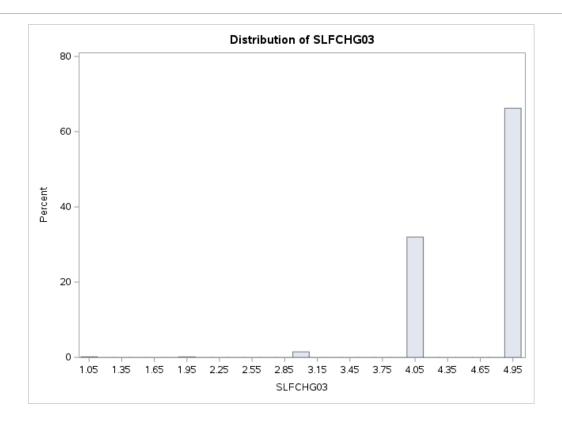
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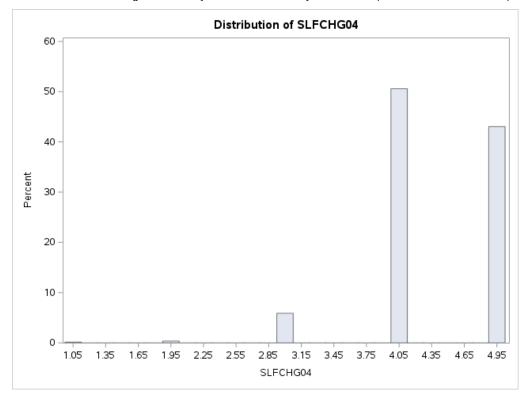


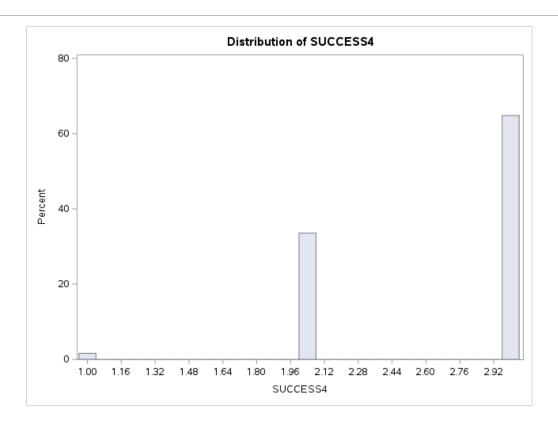
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Variable: SATIS28

Moments						
N 4950 Sum Weights 4950						
Mean	4.16606061	Sum Observations	20622			
Std Deviation	0.75345211	Variance	0.56769008			
Skewness	-0.8196293	Kurtosis	0.88105479			
Uncorrected SS	88722	Corrected SS	2809.49818			

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Basic Statistical Measures					
Location Variability					
Mean 4.166061 Std Deviation 0.753					
Median	4.000000	Variance	0.56769		
Mode	Mode 4.000000 Range		4.00000		
		Interquartile Range	1.00000		

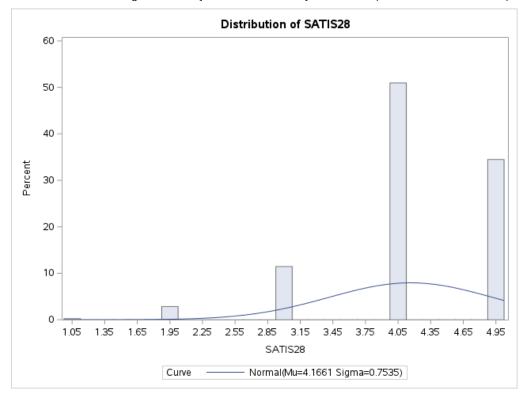
Tests for Location: Mu0=0						
Test	Test Statistic p Value					
Student's t	t 389.0205		Pr > t	<.0001		
Sign	М	2475	Pr >= M	<.0001		
Signed Rank	S	6126863	Pr >= S	<.0001		

Quantiles (Definition 5)			
Level Quanti			
100% Max	5		
99%	5		
95%	5		
90%	5		
75% Q3	5		
50% Median	4		
25% Q1	4		
10%	3		
5%	3		
1%	2		
0% Min	1		

Extreme Observations						
Low	est	High	est			
Value	Obs	Obs Value Ol				
1	4756	5	4991			
1	4662	5	4992			
1	4181	5	4996			
1	4152	5	4998			
1	4089	5	4999			

	Missing Values					
Missing	Percent Of					
Value	Count	All Obs	Missing Obs			
	50	1.00	100.00			

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Fitted Normal Distribution for SATIS28

Parameters for Normal Distribution					
Parameter Symbol Estimate					
Mean	Mu	4.166061			
Std Dev	Sigma	0.753452			

Goodness-of-Fit Tests for Normal Distribution					
Test Statistic p Value					
Kolmogorov-Smirnov	D	0.267325	Pr > D	<0.010	
Cramer-von Mises	W-Sq	75.509438	Pr > W-Sq	<0.005	
Anderson-Darling	A-Sq	412.573653	Pr > A-Sq	<0.005	

Quantiles for Normal Distribution						
	Qua	ntile				
Percent	Observed	Estimated				
1.0	2.00000	2.41327				
5.0	3.00000	2.92674				
10.0	3.00000	3.20047				
25.0	4.00000	3.65786				
50.0	4.00000	4.16606				
75.0	5.00000	4.67426				
90.0	5.00000	5.13165				
95.0	5.00000	5.40538				
99.0	5.00000	5.91885				

Histograms for Selected Variables

Variable: COLLGPA

Moments						
N 4961 Sum Weights 4961						
Mean	4.6278976	Sum Observations	22959			
Std Deviation	0.88594525	Variance	0.78489899			
Skewness	-0.0126654					
Uncorrected SS	110145	Corrected SS	3893.09897			

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Basic Statistical Measures					
Location Variability					
Mean 4.627898 Std Deviation 0.885					
Median	5.000000	Variance	0.78490		
Mode	Mode 5.000000 Range		5.00000		
		Interquartile Range	1.00000		

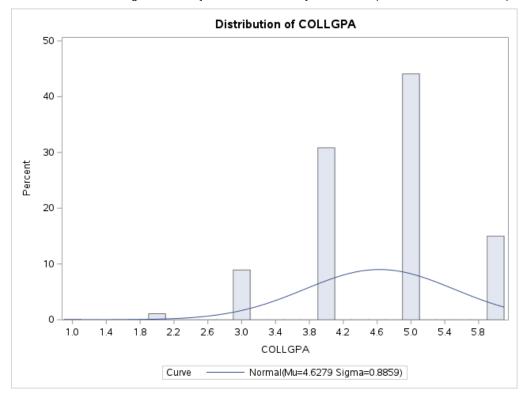
Tests for Location: Mu0=0					
Test	Statistic p Value				
Student's t	t 367.9268		Pr > t	<.0001	
Sign	М	2480.5	Pr >= M	<.0001	
Signed Rank	S	6154121	Pr >= S	<.0001	

Quantiles (Definition 5)		
Level	Quantile	
100% Max	6	
99%	6	
95%	6	
90%	6	
75% Q3	5	
50% Median	5	
25% Q1	4	
10%	3	
5%	3	
1%	2	
0% Min	1	

Extreme Observations					
Low	est	Highest			
Value	Obs	Value	Obs		
1	4756	6	4980		
1	1041	6	4986		
1	597	6	4987		
2	4973	6	4989		
2	4944	6	4991		

Missing Values				
Missing	Percent Of			
Value	Count	All Obs	Missing Obs	
	39	0.78	100.00	

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Fitted Normal Distribution for COLLGPA

Parameters for Normal Distribution				
Parameter Symbol Estimate				
Mean	Mu	4.627898		
Std Dev	Sigma	0.885945		

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic p Value			ue
Kolmogorov-Smirnov	D	0.253568	Pr > D	<0.010
Cramer-von Mises	W-Sq	52.405137	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	273.050259	Pr > A-Sq	<0.005

Quantiles for Normal Distribution				
	Quantile			
Percent	Observed	Estimated		
1.0	2.00000	2.56688		
5.0	3.00000	3.17065		
10.0	3.00000	3.49251		
25.0	4.00000	4.03034		
50.0	5.00000	4.62790		
75.0	5.00000	5.22546		
90.0	6.00000	5.76328		
95.0	6.00000	6.08515		
99.0	6.00000	6.68891		

Histograms for Selected Variables

Variable: SLFCHG01

	Mo	ments			
N	4937	Sum Weights	4937		
Mean	4.47316184	Sum Observations	22084		
Std Deviation	0.5751284	Variance	0.33077268		
Skewness	-0.8763576	Kurtosis	2.0152801		
Uncorrected SS	100418	Corrected SS	1632.69394		

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	Basic Statistical Measures				
Location Variability					
Mean	4.473162	Std Deviation	0.57513		
Median	5.000000	Variance	0.33077		
Mode	5.000000	Range	4.00000		
		Interquartile Range	1.00000		

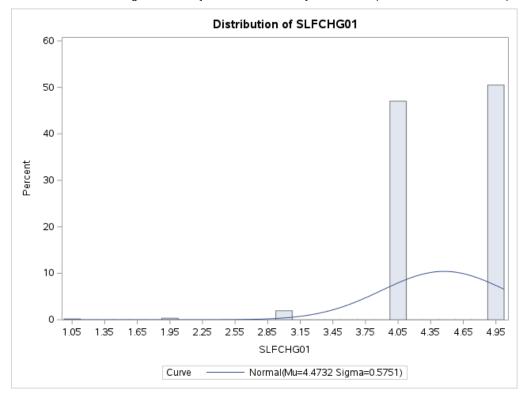
Tests for Location: Mu0=0					
Test	Statistic p Value				
Student's t	t 546.4889		Pr > t	<.0001	
Sign	М	2468.5	Pr >= M	<.0001	
Signed Rank	S	6094727	Pr >= S	<.0001	

Quantiles (Definition 5)		
Level	Quantile	
100% Max	5	
99%	5	
95%	5	
90%	5	
75% Q3	5	
50% Median	5	
25% Q1	4	
10%	4	
5%	4	
1%	3	
0% Min	1	

Extreme Observations					
Low	est	High	est		
Value	Obs	Value	Obs		
1	4756	5	4996		
1	4647	5	4997		
1	4605	5	4998		
1	4577	5	4999		
1	3158	5	5000		

Missing Values					
Missing		Percent Of			
Value	Count	All Obs	Missing Obs		
	63	1.26	100.00		

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Fitted Normal Distribution for SLFCHG01

Parameters for Normal Distribution				
Parameter Symbol Estimate				
Mean	Mu	4.473162		
Std Dev	Sigma	0.575128		

Goodness-of-Fit Tests for Normal Distribution					
Test Statistic p Value					
Kolmogorov-Smirnov	D	0.325138	Pr > D	<0.010	
Cramer-von Mises	W-Sq	115.856495	Pr > W-Sq	<0.005	
Anderson-Darling	A-Sq	680.223105	Pr > A-Sq	<0.005	

Quantiles for Normal Distribution				
	Quantile			
Percent	Observed	Estimated		
1.0	3.00000	3.13521		
5.0	4.00000	3.52716		
10.0	4.00000	3.73611		
25.0	4.00000	4.08524		
50.0	5.00000	4.47316		
75.0	5.00000	4.86108		
90.0	5.00000	5.21022		
95.0	5.00000	5.41916		
99.0	5.00000	5.81111		

Histograms for Selected Variables

Variable: SLFCHG02

Moments					
N 4931 Sum Weights 4931					
Mean	4.30582032	Sum Observations	21232		
Std Deviation	0.61601727	Variance	0.37947727		
Skewness	-0.6002164	Kurtosis	1.20772844		
Uncorrected SS	93292	Corrected SS	1870.82296		

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Basic Statistical Measures					
Loc	Location Variability				
Mean	4.305820	Std Deviation	0.61602		
Median	4.000000	Variance	0.37948		
Mode	4.000000	Range	4.00000		
		Interquartile Range	1.00000		

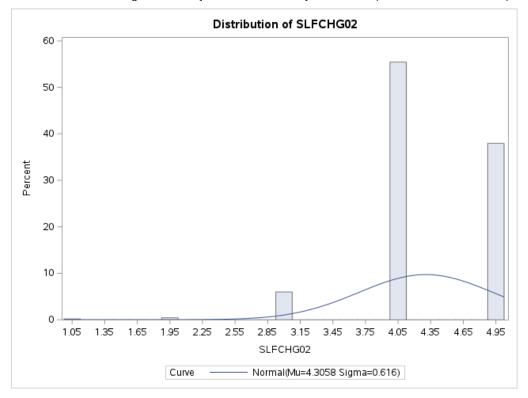
Tests for Location: Mu0=0					
Test Statistic p Value					
Student's t	t 490.8293		Pr > t	<.0001	
Sign	М	2465.5	Pr >= M	<.0001	
Signed Rank	s	6079923	Pr >= S	<.0001	

Quantiles (Definition 5)		
Level	Quantile	
100% Max	5	
99%	5	
95%	5	
90%	5	
75% Q3	5	
50% Median	4	
25% Q1	4	
10%	4	
5%	3	
1%	3	
0% Min	1	

Extreme Observations					
Low	est	est High			
Value	Obs	Value	Obs		
1	4756	5	4993		
1	4647	5	4994		
1	4605	5	4996		
1	4577	5	4998		
1	3158	5	4999		

Missing Values				
Missing	Percent Of			
Value	Count	All Obs	Missing Obs	
	69	1.38	100.00	

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Fitted Normal Distribution for SLFCHG02

Parameters for Normal Distribution				
Parameter Symbol Estimate				
Mean	Mu	4.30582		
Std Dev	Sigma	0.616017		

Goodness-of-Fit Tests for Normal Distribution					
Test	Statistic p Value				
Kolmogorov-Smirnov	D	0.310572	Pr > D	<0.010	
Cramer-von Mises	W-Sq	102.480120	Pr > W-Sq	<0.005	
Anderson-Darling	A-Sq	570.083566	Pr > A-Sq	<0.005	

Quantiles for Normal Distribution					
	Quantile				
Percent	Observed Estimated				
1.0	3.00000	2.87275			
5.0	3.00000	3.29256			
10.0	4.00000	3.51636			
25.0	4.00000	3.89032			
50.0	4.00000	4.30582			
75.0	5.00000	4.72132			
90.0	5.00000	5.09528			
95.0	5.00000	5.31908			
99.0	5.00000	5.73889			

Histograms for Selected Variables

Variable: SLFCHG03

	Мо	ments		
N	N 4930 Sum Weights			
Mean	4.63975659	Sum Observations	22874	
Std Deviation	0.53678024	Variance	0.28813303	
Skewness	-1.4391263	Kurtosis	3.33729558	
Uncorrected SS	107550	Corrected SS	1420.20771	

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Moments					
Coeff Variation	11.5691466	Std Error Mean	0.00764492		

	Basic Statistical Measures				
Loc	Location Variability				
Mean	4.639757	Std Deviation	0.53678		
Median	5.000000	Variance	0.28813		
Mode	5.000000	Range	4.00000		
		Interquartile Range	1.00000		

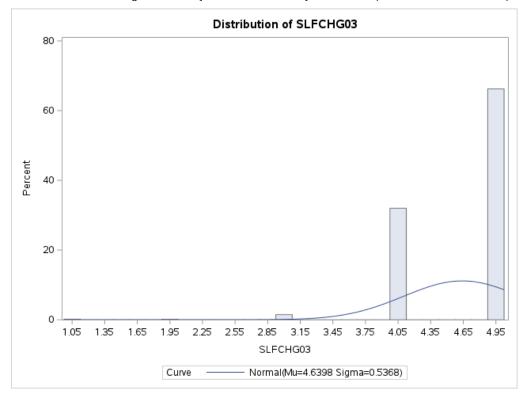
Tests for Location: Mu0=0					
Test	Statistic p Value				
Student's t	t 606.907		Pr > t	<.0001	
Sign	М	2465	Pr >= M	<.0001	
Signed Rank	S	6077458	Pr >= S	<.0001	

Quantiles (Definition 5)		
Level	Quantile	
100% Max	5	
99%	5	
95%	5	
90%	5	
75% Q3	5	
50% Median	5	
25% Q1	4	
10%	4	
5%	4	
1%	3	
0% Min	1	

Extreme Observations				
Low	est	High	est	
Value	Obs	Value	Obs	
1	4756	5	4996	
1	4647	5	4997	
1	4605	5	4998	
1	4577	5	4999	
1	4061	5	5000	

Missing Values				
Missing		Percent Of		
Value	Count	All Obs	Missing Obs	
	70	1.40	100.00	

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Fitted Normal Distribution for SLFCHG03

Parameters for Normal Distribution				
Parameter Symbol Estimate				
Mean	Mu	4.639757		
Std Dev	Sigma	0.53678		

Goodness-of-Fit Tests for Normal Distribution				
Test Statistic p Value				
Kolmogorov-Smirnov	D	0.411199	Pr > D	<0.010
Cramer-von Mises	W-Sq	159.613096	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	858.873695	Pr > A-Sq	<0.005

Quantiles for Normal Distribution				
	Qua	ntile		
Percent	Observed	Estimated		
1.0	3.00000	3.39102		
5.0	4.00000	3.75683		
10.0	4.00000	3.95185		
25.0	4.00000	4.27770		
50.0	5.00000	4.63976		
75.0	5.00000	5.00181		
90.0	5.00000	5.32767		
95.0	5.00000	5.52268		
99.0	5.00000	5.88849		

Histograms for Selected Variables

Variable: SLFCHG04

Moments				
N 4930 Sum Weights 493				
Mean	4.36044625	Sum Observations	21497	
Std Deviation	0.62127152	Variance	0.3859783	
Skewness	-0.661122	Kurtosis	0.83076906	
Uncorrected SS	95639	Corrected SS	1902.48702	

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Basic Statistical Measures				
Location Variability				
Mean	4.360446	Std Deviation	0.62127	
Median	4.000000	Variance	0.38598	
Mode	4.000000	Range	4.00000	
		Interquartile Range	1.00000	

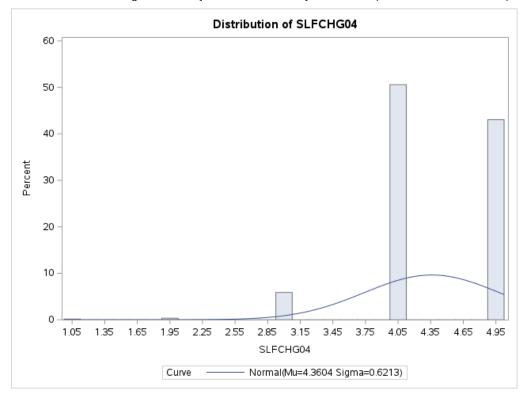
Tests for Location: Mu0=0						
Test	:	Statistic	p Val	ue		
Student's t	t	492.8026	Pr > t	<.0001		
Sign	М	2465	Pr >= M	<.0001		
Signed Rank	S	6077458	Pr >= S	<.0001		

Quantiles (Definition 5)			
Level	Quantile		
100% Max	5		
99%	5		
95%	5		
90%	5		
75% Q3	5		
50% Median	4		
25% Q1	4		
10%	4		
5%	3		
1%	3		
0% Min	1		

Extreme Observations					
Low	est	Highest			
Value	Obs	Value	Obs		
1	1 4756 1 4647		4989		
1			4993		
1	4605	5	4996		
1	1 4577		4998		
1	3158	5	4999		

Missing Values				
Missing		Percent Of		
Value	Count	All Obs	Missing Obs	
	70	1.40	100.00	

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Fitted Normal Distribution for SLFCHG04

Parameters for Normal Distribution					
Parameter	Symbol	Estimate			
Mean	Mu	4.360446			
Std Dev	Sigma	0.621272			

Goodness-of-Fit Tests for Normal Distribution					
Test	Statistic p Value				
Kolmogorov-Smirnov	D	0.288676	Pr > D	<0.010	
Cramer-von Mises	W-Sq	97.910272	Pr > W-Sq	<0.005	
Anderson-Darling	A-Sq	563.713245	Pr > A-Sq	<0.005	

Quantiles for Normal Distribution					
	Qua	Quantile			
Percent	Observed	Estimated			
1.0	3.00000	2.91515			
5.0	3.00000	3.33855			
10.0	4.00000	3.56425			
25.0	4.00000	3.94140			
50.0	4.00000	4.36045			
75.0	5.00000	4.77949			
90.0	5.00000	5.15664			
95.0	5.00000	5.38235			
99.0	5.00000	5.80574			

Histograms for Selected Variables

Variable: CSSRAT01

Moments					
N 4901 Sum Weights 4901					
Mean	3.97388288	Sum Observations	19476		
Std Deviation	0.69819841	Variance	0.48748102		
Skewness	-0.1552168	Kurtosis	-0.2854234		
Uncorrected SS	79784	Corrected SS	2388.65701		

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Moments					
Coeff Variation 17.5696776 Std Error Mean 0.00997325					

Basic Statistical Measures				
Location Variability				
Mean	3.973883	Std Deviation	0.69820	
Median	4.000000	Variance	0.48748	
Mode	4.000000	Range	4.00000	
		Interquartile Range	0	

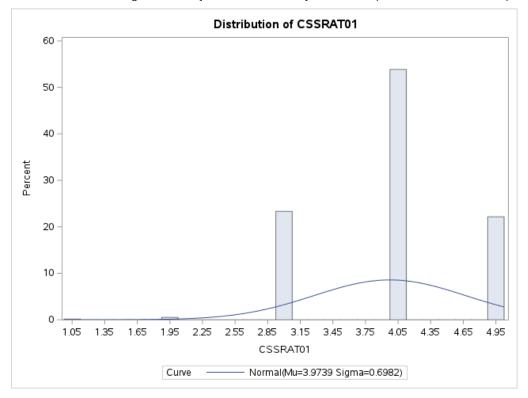
Tests for Location: Mu0=0					
Test	:	Statistic	p Val	ue	
Student's t	t	398.4543	Pr > t	<.0001	
Sign	М	2450.5	Pr >= M	<.0001	
Signed Rank	S	6006176	Pr >= S	<.0001	

Quantiles (Definition 5)		
Level Quantile		
100% Max	5	
99%	5	
95%	5	
90%	5	
75% Q3	4	
50% Median	4	
25% Q1	4	
10%	3	
5%	3	
1%	3	
0% Min	1	

Ext	Extreme Observations					
Low	Lowest Highest					
Value	Value Obs		Obs			
1	4756	5	4984			
1	4577	5	4987			
1	3158	5	4989			
1	1980	5	4993			
1	1782	5	4996			

Missing Values			
Missing	Percent Of		
Value	Count	All Obs	Missing Obs
	99	1.98	100.00

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Fitted Normal Distribution for CSSRAT01

Parameters for Normal Distribution				
Parameter Symbol Estimate				
Mean	Mu	3.973883		
Std Dev Sigma 0.698198				

Goodness-of-Fit Tests for Normal Distribution				
Test Statistic p Value				
Kolmogorov-Smirnov	D	0.275173	Pr > D	<0.010
Cramer-von Mises	W-Sq	77.263357	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	414.849674	Pr > A-Sq	<0.005

Quantiles for Normal Distribution					
	Qua	Quantile			
Percent	Observed	Estimated			
1.0	3.00000	2.34963			
5.0	3.00000	2.82545			
10.0	3.00000 3.0791				
25.0	4.00000 3.50296				
50.0	4.00000 3.97388				
75.0	4.00000 4.44481				
90.0	5.00000 4.8686				
95.0	5.00000 5.12232				
99.0	5.00000	5.59814			

Histograms for Selected Variables

Variable: CSSRAT07

Moments					
N 4896 Sum Weights 48					
Mean	4.07291667	Sum Observations	19941		
Std Deviation	0.80409686	Variance	0.64657176		
Skewness	-0.5571107	Kurtosis	-0.043115		
Uncorrected SS	84383	Corrected SS	3164.96875		

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Basic Statistical Measures				
Location Variability				
Mean 4.072917 Std Deviation 0.804				
Median	4.000000	Variance	0.64657	
Mode	4.000000	Range 4.0000		
		Interquartile Range	1.00000	

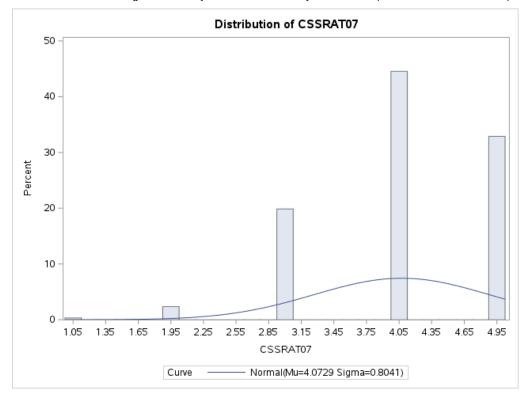
Tests for Location: Mu0=0					
Test Statistic p Value					
Student's t	t	354.4197	Pr > t	<.0001	
Sign	М	2448	Pr >= M	<.0001	
Signed Rank	S 5993928 Pr >= S <.00				

Quantiles (Definition 5)		
Level	Quantile	
100% Max	5	
99%	5	
95%	5	
90%	5	
75% Q3	5	
50% Median	4	
25% Q1	4	
10%	3	
5%	3	
1%	2	
0% Min	1	

Extreme Observations				
Low	est	High	est	
Value	/alue Obs		Obs	
1	4827	5	4989	
1	4756	5	4991	
1	4577	5	4992	
1	4113	5	4996	
1	3559	5	4998	

Missing Values			
Missing	Sing Percent Of		
Value	Count	All Obs	Missing Obs
	104	2.08	100.00

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Fitted Normal Distribution for CSSRAT07

Parameters for Normal Distribution			
Parameter Symbol Estimate			
Mean	Mu	4.072917	
Std Dev	Sigma	0.804097	

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic p Value			ue
Kolmogorov-Smirnov	D	0.238178	Pr > D	<0.010
Cramer-von Mises	W-Sq	58.095731	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	338.835121	Pr > A-Sq	<0.005

Quantiles for Normal Distribution			
	Qua	ntile	
Percent	Observed	Estimated	
1.0	2.00000	2.20231	
5.0	3.00000	2.75030	
10.0	3.00000	3.04243	
25.0	4.00000	3.53056	
50.0	4.00000	4.07292	
75.0	5.00000	4.61527	
90.0	5.00000	5.10341	
95.0	5.00000	5.39554	
99.0	5.00000	5.94353	

Histograms for Selected Variables

Variable: SUCCESS4

Moments			
N	4914	Sum Weights	4914
Mean	2.63207163	Sum Observations	12934
Std Deviation	0.51455223	Variance	0.264764
Skewness	-0.8989782	Kurtosis	-0.4370482
Uncorrected SS	35344	Corrected SS	1300.78551

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	Basic Statistical Measures			
Loc	Location Variability			
Mean	2.632072	Std Deviation	0.51455	
Median	3.000000	Variance	0.26476	
Mode	3.000000	Range	2.00000	
		Interquartile Range	1.00000	

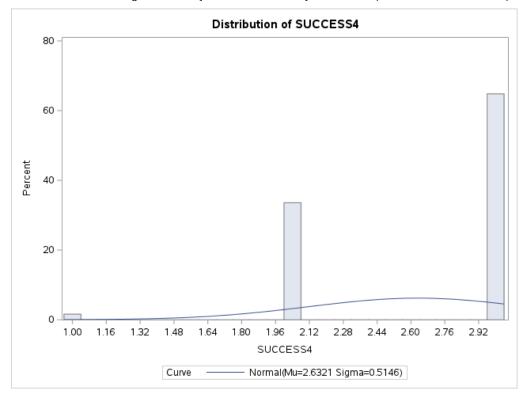
Tests for Location: Mu0=0				
Test	Statistic p Value			ue
Student's t	t	358.5798	Pr > t	<.0001
Sign	М	2457	Pr >= M	<.0001
Signed Rank	S	6038078	Pr >= S	<.0001

Quantiles (Definition 5)		
Level	Quantile	
100% Max	3	
99%	3	
95%	3	
90%	3	
75% Q3	3	
50% Median	3	
25% Q1	2	
10%	2	
5%	2	
1%	1	
0% Min	1	

Extreme Observations			
Low	est	High	nest
Value	Obs	Value	Obs
1	4894	3	4996
1	4825	3	4997
1	4756	3	4998
1	4644	3	4999
1	4577	3	5000

Missing Values			
Missing		Pe	rcent Of
Value	Count	All Obs	Missing Obs
	86	1.72	100.00

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Fitted Normal Distribution for SUCCESS4

Parameters for Normal Distribution			
Parameter Symbol Estimate			
Mean	Mu	2.632072	
Std Dev	Sigma	0.514552	

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic p Value			
Kolmogorov-Smirnov	D	0.410858	Pr > D	<0.010
Cramer-von Mises	W-Sq	160.108640	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	885.747593	Pr > A-Sq	<0.005

Quantiles for Normal Distribution			
	Qua	ntile	
Percent	Observed	Estimated	
1.0	1.00000	1.43504	
5.0	2.00000	1.78571	
10.0	2.00000	1.97265	
25.0	2.00000	2.28501	
50.0	3.00000	2.63207	
75.0	3.00000	2.97913	
90.0	3.00000	3.29150	
95.0	3.00000	3.47843	
99.0	3.00000	3.82910	

Histograms for Selected Variables

Variable: SATIS13

Moments					
N	N 4954 Sum Weights				
Mean	3.74545822	Sum Observations	18555		
Std Deviation	0.98258846	Variance	0.96548007		
Skewness	-0.4712984	Kurtosis	-0.5562571		
Uncorrected SS	74279	Corrected SS	4782.02281		

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Moments					
Coeff Variation	26.2341321	Std Error Mean	0.01396026		

Basic Statistical Measures				
Location Mean 3.745458		Variability		
		Std Deviation	0.98259	
Median	Median 4.000000	Variance	0.96548	
Mode	4.000000	Range	4.00000	
		Interquartile Range	1.00000	

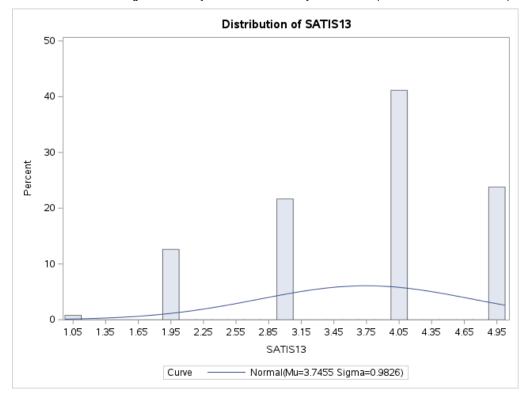
Te	sts f	or Location	: Mu0=0	
Test	:	Statistic	p Val	ue
Student's t	t	268.2942	Pr > t	<.0001
Sign	М	2477	Pr >= M	<.0001
Signed Rank	S	6136768	Pr >= S	<.0001

Quantiles (Definition 5)		
Level	Quantile	
100% Max	5	
99%	5	
95%	5	
90%	5	
75% Q3	4	
50% Median	4	
25% Q1	3	
10%	2	
5%	2	
1%	2	
0% Min	1	

Ext	reme Ol	oservatio	ns	
Low	est	Highest		
Value	Obs	Value	Obs	
1	4984	5	4983	
1	4950	5	4991	
1	4756	5	4992	
1	4682	5	4998	
1	4662	5	4999	

Missing Values				
Missing		Pe	cent Of	
Value	Count	All Obs	Missing Obs	
	46	0.92	100.00	

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Fitted Normal Distribution for SATIS13

Parameters for Normal Distribution			
Parameter	Symbol	Estimate	
Mean	Mu	3.745458	
Std Dev	Sigma	0.982588	

Goodness-of-Fit Tests for Normal Distribution				
Test Sta		statistic	p Value	
Kolmogorov-Smirnov	D	0.251577	Pr > D	<0.010
Cramer-von Mises	W-Sq	45.055238	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	255.233882	Pr > A-Sq	<0.005

Quantiles for Normal Distribution				
	Quantile			
Percent	Observed	Estimated		
1.0	2.00000	1.45962		
5.0	2.00000	2.12924		
10.0	2.00000	2.48622		
25.0	3.00000	3.08271		
50.0	4.00000	3.74546		
75.0	4.00000	4.40820		
90.0	5.00000	5.00470		
95.0	5.00000	5.36167		
99.0	5.00000	6.03130		

Histograms and Normality Tests

Variable: SATIS28

Moments					
N	N 4950 Sum Weights				
Mean	4.16606061	Sum Observations	20622		
Std Deviation	0.75345211	Variance	0.56769008		
Skewness	-0.8196293	Kurtosis	0.88105479		
Uncorrected SS	88722	Corrected SS	2809.49818		

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Moments				
	Coeff Variation	18.0854811	Std Error Mean	0.0107091

Basic Statistical Measures				
Loc	ation	Variability		
Mean	4.166061	Std Deviation	0.75345	
Median	4.000000	Variance	0.56769	
Mode	4.000000	Range	4.00000	
		Interquartile Range	1.00000	

Tests for Location: Mu0=0					
Test	:	Statistic	p Val	ue	
Student's t	t	389.0205	Pr > t	<.0001	
Sign	М	2475	Pr >= M	<.0001	
Signed Rank	s	6126863	Pr >= S	<.0001	

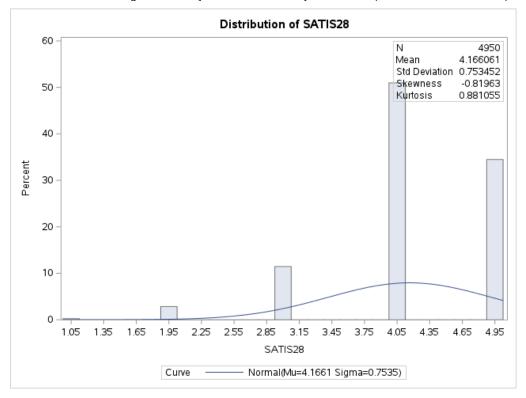
Tests for Normality					
Test	st Stati		p Va	lue	
Kolmogorov-Smirnov	D	0.267325	Pr > D	<0.0100	
Cramer-von Mises	W-Sq	75.50944	Pr > W-Sq	<0.0050	
Anderson-Darling	A-Sq	412.5737	Pr > A-Sq	<0.0050	

Quantiles (Definition 5)			
Level	Quantile		
100% Max	5		
99%	5		
95%	5		
90%	5		
75% Q3	5		
50% Median	4		
25% Q1	4		
10%	3		
5%	3		
1%	2		
0% Min	1		

Extreme Observations				
Low	Lowest		est	
Value	Obs	Value	Obs	
1	4756	5	4991	
1	4662	5	4992	
1	4181	5	4996	
1	4152	5	4998	
1	4089	5	4999	

Missing Values				
Missing		Percent Of		
Value	Count	All Obs	Missing Obs	
	50	1.00	100.00	

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Fitted Normal Distribution for SATIS28

Parameters	Parameters for Normal Distribution			
Parameter	Symbol	Estimate		
Mean	Mu	4.166061		
Std Dev	Sigma	0.753452		

Goodness-of-Fit Tests for Normal Distribution				
Test	S	statistic	p Val	ue
Kolmogorov-Smirnov	D	0.267325	Pr > D	<0.010
Cramer-von Mises	W-Sq	75.509438	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	412.573653	Pr > A-Sq	<0.005

Quantiles for Normal Distribution					
	Qua	Quantile			
Percent	Observed	Estimated			
1.0	2.00000	2.41327			
5.0	3.00000	2.92674			
10.0	3.00000	3.20047			
25.0	4.00000	3.65786			
50.0	4.00000	4.16606			
75.0	5.00000	4.67426			
90.0	5.00000	5.13165			
95.0	5.00000	5.40538			
99.0	5.00000	5.91885			

Histograms and Normality Tests

Variable: COLLGPA

Moments				
N	N 4961 Sum Weights			
Mean	4.6278976	Sum Observations	22959	
Std Deviation	0.88594525	Variance	0.78489899	
Skewness	-0.3998362	Kurtosis	-0.0126654	
Uncorrected SS	110145	Corrected SS	3893.09897	

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Moments				
Coeff Variation	19.1435794	Std Error Mean	0.01257831	

	Basic Statistical Measures				
Loc	ation	Variability			
Mean	4.627898	Std Deviation	0.88595		
Median	5.000000	Variance	0.78490		
Mode	5.000000	Range	5.00000		
		Interquartile Range	1.00000		

Tests for Location: Mu0=0					
Test Statistic p Value					
Student's t	t	367.9268	Pr > t	<.0001	
Sign	М	2480.5	Pr >= M	<.0001	
Signed Rank	s	6154121	Pr >= S	<.0001	

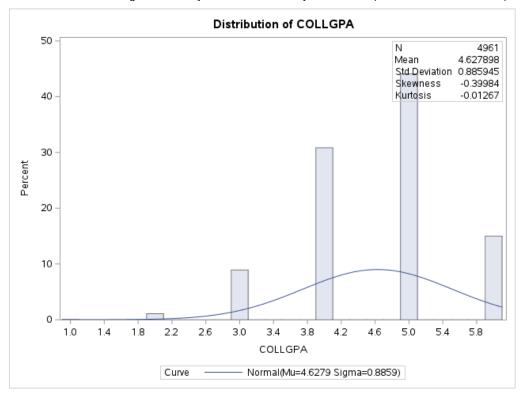
Tests for Normality						
Test Statistic p Value						
Kolmogorov-Smirnov	D	0.253568	Pr > D	<0.0100		
Cramer-von Mises	W-Sq	52.40514	Pr > W-Sq	<0.0050		
Anderson-Darling	A-Sq	273.0503	Pr > A-Sq	<0.0050		

Quantiles (Definition 5)			
Level Quantile			
100% Max	6		
99%	6		
95%	6		
90%	6		
75% Q3	5		
50% Median	5		
25% Q1	4		
10%	3		
5%	3		
1%	2		
0% Min	1		

Extreme Observations				
Low	Lowest		est	
Value Obs		Value	Obs	
1	1 4756 1 1041 1 597 2 4973		4980	
1			4986	
1			4987	
2			4989	
2 4944		6	4991	

Missing Values					
Missing	esing Pe		rcent Of		
Value	Count	All Obs	Missing Obs		
	39	0.78	100.00		

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Fitted Normal Distribution for COLLGPA

Parameters for Normal Distribution				
Parameter Symbol Estimat				
Mean	Mu	4.627898		
Std Dev	Sigma	0.885945		

Goodness-of-Fit Tests for Normal Distribution					
Test Statistic p Value					
Kolmogorov-Smirnov	D	0.253568	Pr > D	<0.010	
Cramer-von Mises	W-Sq	52.405137	Pr > W-Sq	<0.005	
Anderson-Darling	A-Sq	273.050259	Pr > A-Sq	<0.005	

Quantiles for Normal Distribution				
	Qua	ntile		
Percent	Observed	Estimated		
1.0	2.00000	2.56688		
5.0	3.00000	3.17065		
10.0	3.00000	3.49251		
25.0	4.00000	4.03034		
50.0	5.00000	4.62790		
75.0	5.00000	5.22546		
90.0	6.00000	5.76328		
95.0	6.00000	6.08515		
99.0	6.00000	6.68891		

Histograms and Normality Tests

Variable: SLFCHG01

Moments						
N 4937 Sum Weights 4937						
Mean	4.47316184	Sum Observations	22084			
Std Deviation	0.5751284	Variance	0.33077268			
Skewness	-0.8763576	Kurtosis	2.0152801			
Uncorrected SS	100418	Corrected SS	1632.69394			

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Moments					
Coeff Variation 12.8573126 Std Error Mean 0.00818527					

	Basic Statistical Measures					
Loc	Location Variability					
Mean	4.473162	Std Deviation	0.57513			
Median	5.000000	Variance	0.33077			
Mode	5.000000	Range	4.00000			
		Interquartile Range	1.00000			

Tests for Location: Mu0=0						
Test	est Statistic p Value					
Student's t	t	546.4889	Pr > t	<.0001		
Sign	М	2468.5	Pr >= M	<.0001		
Signed Rank	S	6094727	Pr >= S	<.0001		

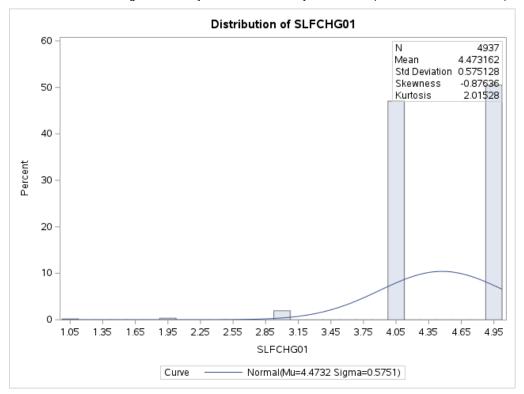
Tests for Normality					
Test	p Value				
Kolmogorov-Smirnov	D	0.325138	Pr > D	<0.0100	
Cramer-von Mises	W-Sq	115.8565	Pr > W-Sq	<0.0050	
Anderson-Darling	A-Sq	680.2231	Pr > A-Sq	<0.0050	

Quantiles (Definition 5)				
Level	Quantile			
100% Max	5			
99%	5			
95%	5			
90%	5			
75% Q3	5			
50% Median	5			
25% Q1	4			
10%	4			
5%	4			
1%	3			
0% Min	1			

Extreme Observations						
Low	Lowest		est			
Value Obs		Value	Obs			
1	4756	5	4996			
1	1 4647	5	4997			
1	4605	5	4998			
1	4577	5	4999			
1	3158	5	5000			

Missing Values					
Missing		Percent Of			
Value	Count	All Obs	Missing Obs		
	63	1.26	100.00		

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Fitted Normal Distribution for SLFCHG01

Parameters for Normal Distribution					
Parameter	Symbol	Estimate			
Mean	Mu	4.473162			
Std Dev	Sigma	0.575128			

Goodness-of-Fit Tests for Normal Distribution					
Test	S	statistic	p Val	ue	
Kolmogorov-Smirnov	D	0.325138	Pr > D	<0.010	
Cramer-von Mises	W-Sq	115.856495	Pr > W-Sq	<0.005	
Anderson-Darling	A-Sq	680.223105	Pr > A-Sq	<0.005	

Quantiles for Normal Distribution						
	Qua	Quantile				
Percent	Observed	Estimated				
1.0	3.00000	3.13521				
5.0	4.00000	3.52716				
10.0	4.00000	3.73611				
25.0	4.00000	4.08524				
50.0	5.00000	4.47316				
75.0	5.00000	4.86108				
90.0	5.00000	5.21022				
95.0	5.00000	5.41916				
99.0	5.00000	5.81111				

Histograms and Normality Tests

Variable: SLFCHG02

Moments							
N 4931 Sum Weights 4931							
Mean	4.30582032	Sum Observations	21232				
Std Deviation	0.61601727	Variance	0.37947727				
Skewness	-0.6002164	Kurtosis	1.20772844				
Uncorrected SS	93292	Corrected SS	1870.82296				

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Moments					
Coeff Variation	14.306618	Std Error Mean	0.00877254		

	Basic Statistical Measures						
Loc	ation	Variability					
Mean	4.305820	Std Deviation	0.61602				
Median	4.000000	Variance	0.37948				
Mode	4.000000	Range	4.00000				
		Interquartile Range	1.00000				

Tests for Location: Mu0=0						
Test	:	Statistic	p Val	ue		
Student's t	t	490.8293	Pr > t	<.0001		
Sign	М	2465.5	Pr >= M	<.0001		
Signed Rank	S	6079923	Pr >= S	<.0001		

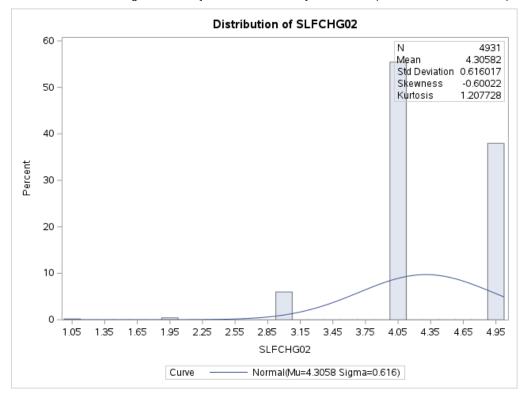
Tests for Normality					
Test Statistic p Value					
Kolmogorov-Smirnov	D	0.310572	Pr > D	<0.0100	
Cramer-von Mises	W-Sq	102.4801	Pr > W-Sq	<0.0050	
Anderson-Darling	A-Sq	570.0836	Pr > A-Sq	<0.0050	

Quantiles (Definition 5)		
Level Quantil		
100% Max	5	
99%	5	
95%	5	
90%	5	
75% Q3	5	
50% Median	4	
25% Q1	4	
10%	4	
5%	3	
1%	3	
0% Min	1	

Extreme Observations			
Low	Lowest		est
Value	Obs	Value	Obs
1	4756	5	4993
1	4647	5	4994
1	4605	5	4996
1	4577	5	4998
1	3158	5	4999

Missing Values				
Missing	Count	Percent Of		
Value		All Obs	Missing Obs	
	69	1.38	100.00	

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Fitted Normal Distribution for SLFCHG02

Parameters for Normal Distribution			
Parameter Symbol		Estimate	
Mean	Mu	4.30582	
Std Dev	Sigma	0.616017	

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Val	ue
Kolmogorov-Smirnov	D	0.310572	Pr > D	<0.010
Cramer-von Mises	W-Sq	102.480120	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	570.083566	Pr > A-Sq	<0.005

Quantiles for Normal Distribution			
	Quantile		
Percent	Observed	Estimated	
1.0	3.00000	2.87275	
5.0	3.00000	3.29256	
10.0	4.00000	3.51636	
25.0	4.00000	3.89032	
50.0	4.00000	4.30582	
75.0	5.00000	4.72132	
90.0	5.00000	5.09528	
95.0	5.00000	5.31908	
99.0	5.00000	5.73889	

Histograms and Normality Tests

Variable: SLFCHG03

Moments			
N	4930	Sum Weights	4930
Mean	4.63975659	Sum Observations	22874
Std Deviation	0.53678024	Variance	0.28813303
Skewness	-1.4391263	Kurtosis	3.33729558
Uncorrected SS	107550	Corrected SS	1420.20771

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	Mo	Moments		
Coeff Variation	11.5691466	Std Error Mean	0.00764492	

Basic Statistical Measures					
Loc	ation	Variability			
Mean	4.639757	Std Deviation	0.53678		
Median	5.000000	Variance	0.28813		
Mode	5.000000	Range	4.00000		
		Interquartile Range	1.00000		

Te	sts f	or Location	: Mu0=0	
Test	Statistic		p Va	ue
Student's t	t	606.907	Pr > t	<.0001
Sign	М	2465	Pr >= M	<.0001
Signed Rank	s	6077458	Pr >= S	<.0001

	Tests for Normality				
Test	Statistic		p Value		
Kolmogorov-Smirnov	D	0.411199	Pr > D	<0.0100	
Cramer-von Mises	W-Sq	159.6131	Pr > W-Sq	<0.0050	
Anderson-Darling	A-Sq	858.8737	Pr > A-Sq	<0.0050	

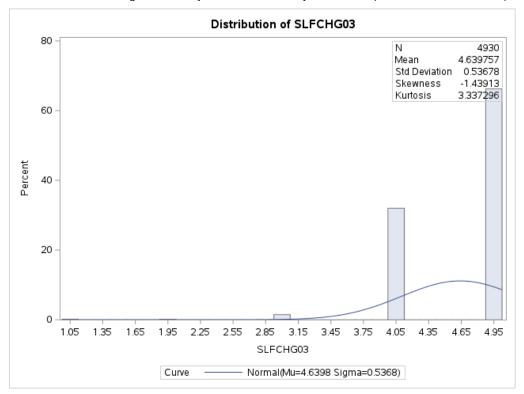
Quantiles (Definition 5)				
Level	Quantile			
100% Max	5			
99%	5			
95%	5			
90%	5			
75% Q3	5			
50% Median	5			
25% Q1	4			
10%	4			
5%	4			
1%	3			
0% Min	1			

Ext	reme Observations			
Low	est	Highest		
Value	Value Obs		Obs	
1	1 4756 1 4647		4996	
1			4997	
1	4605	5	4998	
1	1 4577		4999	
1	4061	5	5000	

Missing Values				
Missing		Percent Of		
Value	Count	All Obs	Missing Obs	
	70	1.40	100.00	

Histograms and Normality Tests

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Fitted Normal Distribution for SLFCHG03

Parameters	Parameters for Normal Distribution			
Parameter	Symbol	Estimate		
Mean	Mu	4.639757		
Std Dev	Sigma	0.53678		

Goodness-of-Fit Tests for Normal Distribution				
Test	S	tatistic	p Value	
Kolmogorov-Smirnov	D	0.411199	Pr > D	<0.010
Cramer-von Mises	W-Sq	159.613096	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	858.873695	Pr > A-Sq	<0.005

Quantiles for Normal Distribution					
	Quantile				
Percent	Observed	Estimated			
1.0	3.00000	3.39102			
5.0	4.00000	3.75683			
10.0	4.00000	3.95185			
25.0	4.00000	4.27770			
50.0	5.00000	4.63976			
75.0	5.00000	5.00181			
90.0	5.00000	5.32767			
95.0	5.00000	5.52268			
99.0	5.00000	5.88849			

Histograms and Normality Tests

Variable: SLFCHG04

Moments					
N	4930	Sum Weights	4930		
Mean	4.36044625	Sum Observations	21497		
Std Deviation	0.62127152	Variance	0.3859783		
Skewness	-0.661122	Kurtosis	0.83076906		
Uncorrected SS	95639	Corrected SS	1902.48702		

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	Mo	Moments		
Coeff Variation	14.2478884	Std Error Mean	0.00884826	

Basic Statistical Measures				
Loc	ation	Variability		
Mean	4.360446	Std Deviation	0.62127	
Median	4.000000	Variance	0.38598	
Mode	4.000000	Range	4.00000	
		Interquartile Range	1.00000	

Te	: Mu0=0			
Test	:	Statistic	p Val	ue
Student's t	t	492.8026	Pr > t	<.0001
Sign	М	2465	Pr >= M	<.0001
Signed Rank	S	6077458	Pr >= S	<.0001

Tests for Normality					
Test	St	atistic	p Val	p Value	
Kolmogorov-Smirnov	D	0.288676	Pr > D	<0.0100	
Cramer-von Mises	W-Sq	97.91027	Pr > W-Sq	<0.0050	
Anderson-Darling	A-Sq	563.7132	Pr > A-Sq	<0.0050	

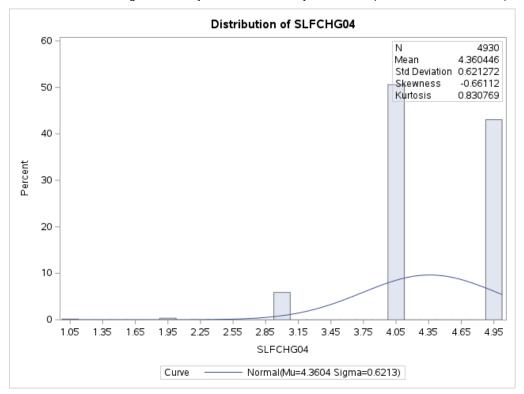
Quantiles (Definition 5)				
Level	Quantile			
100% Max	5			
99%	5			
95%	5			
90%	5			
75% Q3	5			
50% Median	4			
25% Q1	4			
10%	4			
5%	3			
1%	3			
0% Min	1			

Extreme Observations				
Low	Lowest		est	
Value	Obs	Value	Obs	
1	4756	5	4989	
1	4647	5	4993	
1	4605	5	4996	
1	4577	5	4998	
1	3158	5	4999	

	Miss	ing Values	;
Missing		Pe	rcent Of
Value	Count	All Obs	Missing Obs
	70	1.40	100.00

Histograms and Normality Tests

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Fitted Normal Distribution for SLFCHG04

Parameters for Normal Distribution			
Parameter	Symbol	Estimate	
Mean	Mu	4.360446	
Std Dev	Sigma	0.621272	

Goodness-of-Fit Tests for Normal Distribution				
Test	S	itatistic	p Val	ue
Kolmogorov-Smirnov	D	0.288676	Pr > D	<0.010
Cramer-von Mises	W-Sq	97.910272	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	563.713245	Pr > A-Sq	<0.005

Quantiles for Normal Distribution				
	Quantile			
Percent	Observed	Estimated		
1.0	3.00000	2.91515		
5.0	3.00000	3.33855		
10.0	4.00000	3.56425		
25.0	4.00000	3.94140		
50.0	4.00000	4.36045		
75.0	5.00000	4.77949		
90.0	5.00000	5.15664		
95.0	5.00000	5.38235		
99.0	5.00000	5.80574		

Histograms and Normality Tests

Variable: CSSRAT01

Moments				
N 4901 Sum Weights 4901				
Mean	3.97388288	Sum Observations	19476	
Std Deviation	0.69819841	Variance	0.48748102	
Skewness	-0.1552168	Kurtosis	-0.2854234	
Uncorrected SS	79784	Corrected SS	2388.65701	

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Moments				
Coeff Variation	17.5696776	Std Error Mean	0.00997325	

	Basic Statistical Measures				
Loc	ation	Variability			
Mean	3.973883	Std Deviation	0.69820		
Median	4.000000	Variance	0.48748		
Mode	4.000000	Range	4.00000		
		Interquartile Range	0		

Tests for Location: Mu0=0					
Test	:	Statistic	p Val	ue	
Student's t	t	398.4543	Pr > t	<.0001	
Sign	М	2450.5	Pr >= M	<.0001	
Signed Rank	s	6006176	Pr >= S	<.0001	

Tests for Normality					
Test	St	atistic	p Value		
Kolmogorov-Smirnov	D	0.275173	Pr > D	<0.0100	
Cramer-von Mises	W-Sq	77.26336	Pr > W-Sq	<0.0050	
Anderson-Darling	A-Sq	414.8497	Pr > A-Sq	<0.0050	

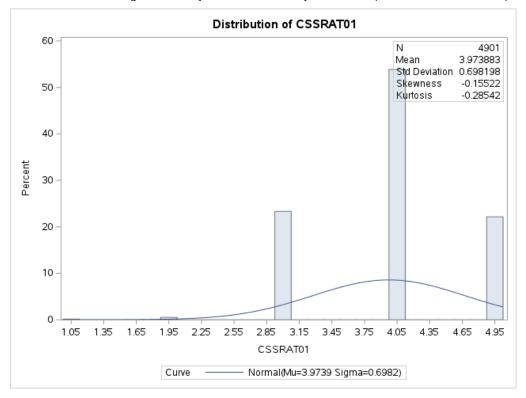
Quantiles (Definition 5)			
Level	Quantile		
100% Max	5		
99%	5		
95%	5		
90%	5		
75% Q3	4		
50% Median	4		
25% Q1	4		
10%	3		
5%	3		
1%	3		
0% Min	1		

Extreme Observations				
Low	Lowest		est	
Value Obs		Value	Obs	
1	4756	5	4984	
1	4577	5	4987	
1	3158	5	4989	
1	1980	5	4993	
1	1782	5	4996	

Missing Values					
Missing		Percent Of			
Value	Count	All Obs	Missing Obs		
	99	1.98	100.00		

Histograms and Normality Tests

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Fitted Normal Distribution for CSSRAT01

Parameters for Normal Distribution				
Parameter	Symbol	Estimate		
Mean	Mu	3.973883		
Std Dev	Sigma	0.698198		

Goodness-of-Fit Tests for Normal Distribution					
Test	S	tatistic	p Val	ue	
Kolmogorov-Smirnov	D	0.275173	Pr > D	<0.010	
Cramer-von Mises	W-Sq	77.263357	Pr > W-Sq	<0.005	
Anderson-Darling	A-Sq	414.849674	Pr > A-Sq	<0.005	

Quantiles for Normal Distribution					
	Qua	Quantile			
Percent	Observed	Estimated			
1.0	3.00000	2.34963			
5.0	3.00000	2.82545			
10.0	3.00000	3.07911			
25.0	4.00000	3.50296			
50.0	4.00000	3.97388			
75.0	4.00000	4.44481			
90.0	5.00000	4.86866			
95.0	5.00000	5.12232			
99.0	5.00000	5.59814			

Histograms and Normality Tests

Variable: CSSRAT07

Moments						
N 4896 Sum Weights 4896						
Mean	4.07291667	Sum Observations	19941			
Std Deviation	0.80409686	Variance	0.64657176			
Skewness	-0.5571107	Kurtosis	-0.043115			
Uncorrected SS	84383	Corrected SS	3164.96875			

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Moments					
Coeff Variation 19.7425315 Std Error Mean 0.01149179					

Basic Statistical Measures					
Location Variability					
Mean	4.072917	Std Deviation	0.80410		
Median	4.000000	Variance	0.64657		
Mode	4.000000	Range	4.00000		
		Interquartile Range	1.00000		

Tests for Location: Mu0=0					
Test	:	Statistic	p Val	ue	
Student's t	t	354.4197	Pr > t	<.0001	
Sign	М	2448	Pr >= M	<.0001	
Signed Rank	S	5993928	Pr >= S	<.0001	

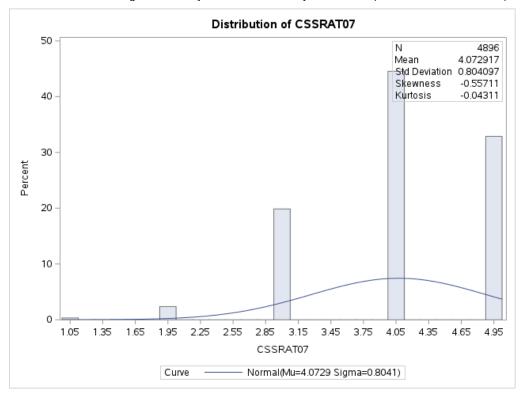
Tests for Normality						
Test	St	atistic	p Va	lue		
Kolmogorov-Smirnov	D	0.238178	Pr > D	<0.0100		
Cramer-von Mises	W-Sq	58.09573	Pr > W-Sq	<0.0050		
Anderson-Darling	A-Sq	338.8351	Pr > A-Sq	<0.0050		

Quantiles (Definition 5)				
Level	Quantile			
100% Max	5			
99%	5			
95%	5			
90%	5			
75% Q3	5			
50% Median	4			
25% Q1	4			
10%	3			
5%	3			
1%	2			
0% Min	1			

Extreme Observations						
Low	Lowest		est			
Value	Obs	Value	Obs			
1	4827	5	4989			
1	4756	5	4991			
1	4577	5	4992			
1	4113	5	4996			
1	3559	5	4998			

Missing Values							
Missing		Percent Of					
Value	Count	All Obs	Missing Obs				
	104	2.08	100.00				

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Fitted Normal Distribution for CSSRAT07

Parameters for Normal Distribution					
Parameter	Symbol	Estimate			
Mean	Mu	4.072917			
Std Dev	Sigma	0.804097			

Goodness-of-Fit Tests for Normal Distribution					
Test	S	itatistic	p Val	ue	
Kolmogorov-Smirnov	D	0.238178	Pr > D	<0.010	
Cramer-von Mises	W-Sq	58.095731	Pr > W-Sq	<0.005	
Anderson-Darling	A-Sq	338.835121	Pr > A-Sq	<0.005	

Quantiles for Normal Distribution						
	Qua	Quantile				
Percent	Observed	Estimated				
1.0	2.00000	2.20231				
5.0	3.00000	2.75030				
10.0	3.00000	3.04243				
25.0	4.00000	3.53056				
50.0	4.00000	4.07292				
75.0	5.00000	4.61527				
90.0	5.00000	5.10341				
95.0	5.00000	5.39554				
99.0	5.00000	5.94353				

Histograms and Normality Tests

Variable: SUCCESS4

Moments						
N	4914	Sum Weights	4914			
Mean	2.63207163	Sum Observations	12934			
Std Deviation	0.51455223	Variance	0.264764			
Skewness	-0.8989782	Kurtosis	-0.4370482			
Uncorrected SS	35344	Corrected SS	1300.78551			

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Moments					
Coeff Variation	19.5493246	Std Error Mean	0.00734027		

	Basic Statistical Measures						
Loc	ation	Variability					
Mean	2.632072	Std Deviation	0.51455				
Median	3.000000	Variance	0.26476				
Mode	3.000000	Range	2.00000				
		Interquartile Range	1.00000				

Tests for Location: Mu0=0						
Test	:	Statistic	p Val	ue		
Student's t	t	358.5798	Pr > t	<.0001		
Sign	М	2457	Pr >= M	<.0001		
Signed Rank	s	6038078	Pr >= S	<.0001		

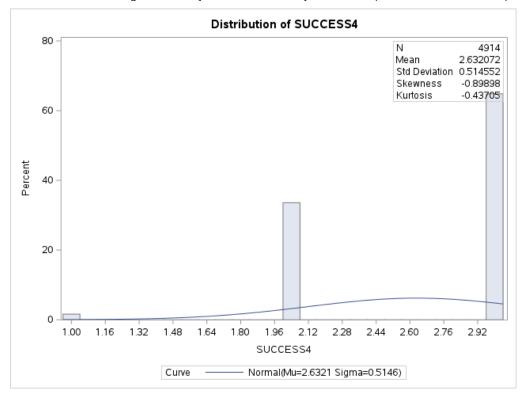
Tests for Normality						
Test	St	atistic	p Va	ue		
Kolmogorov-Smirnov	D	0.410858	Pr > D	<0.0100		
Cramer-von Mises	W-Sq	160.1086	Pr > W-Sq	<0.0050		
Anderson-Darling	A-Sq	885.7476	Pr > A-Sq	<0.0050		

Quantiles (Definition 5)		
Level	Quantile	
100% Max	3	
99%	3	
95%	3	
90%	3	
75% Q3	3	
50% Median	3	
25% Q1	2	
10%	2	
5%	2	
1%	1	
0% Min	1	

Ext	Extreme Observations				
Low	Lowest		est		
Value	Value Obs		Obs		
1	4894	3	4996		
1	4825	3	4997		
1	4756	3	4998		
1	4644	3	4999		
1	4577	3	5000		

Missing Values			
Missing Percent		rcent Of	
Value	Count	All Obs	Missing Obs
	86	1.72	100.00

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Fitted Normal Distribution for SUCCESS4

Parameters for Normal Distribution			
Parameter Symbol Estimate			
Mean	Mu	2.632072	
Std Dev	Sigma	0.514552	

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic p Value			
Kolmogorov-Smirnov	D	0.410858	Pr > D	<0.010
Cramer-von Mises	W-Sq	160.108640	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	885.747593	Pr > A-Sq	<0.005

Quantiles for Normal Distribution			
	Qua	ntile	
Percent	Observed	Estimated	
1.0	1.00000	1.43504	
5.0	2.00000	1.78571	
10.0	2.00000	1.97265	
25.0	2.00000	2.28501	
50.0	3.00000	2.63207	
75.0	3.00000	2.97913	
90.0	3.00000	3.29150	
95.0	3.00000	3.47843	
99.0	3.00000	3.82910	

Histograms and Normality Tests

Variable: SATIS13

Moments				
	IVIO	ments		
N	4954	Sum Weights	4954	
Mean	3.74545822	Sum Observations	18555	
Std Deviation	0.98258846	Variance	0.96548007	
Skewness	-0.4712984	Kurtosis	-0.5562571	
Uncorrected SS	74279	Corrected SS	4782.02281	

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Moments			
Coeff Variation	26.2341321	Std Error Mean	0.01396026

Basic Statistical Measures			
Location Variability			
Mean	3.745458	Std Deviation	0.98259
Median	4.000000	Variance	0.96548
Mode	4.000000	Range	4.00000
		Interquartile Range	1.00000

Tests for Location: Mu0=0				
Test	Statistic p Value			
Student's t	t	268.2942	Pr > t	<.0001
Sign	М	2477	Pr >= M	<.0001
Signed Rank	s	6136768	Pr >= S	<.0001

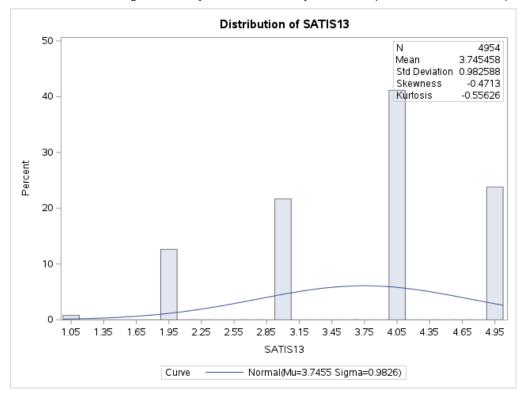
Tests for Normality				
Test	Statistic p Value			
Kolmogorov-Smirnov	D	0.251577	Pr > D	<0.0100
Cramer-von Mises	W-Sq	45.05524	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	255.2339	Pr > A-Sq	<0.0050

Quantiles (Definition 5)			
Level	Quantile		
100% Max	5		
99%	5		
95%	5		
90%	5		
75% Q3	4		
50% Median	4		
25% Q1	3		
10%	2		
5%	2		
1%	2		
0% Min	1		

Extreme Observations							
Low	est/	High	nest				
Value	Obs	Value	Obs				
1	4984	5	4983				
1	1 4950		4991				
1	4756	5	4992				
1	4682	5	4998				
1	4662	5	4999				

Missing Values						
Missing		Percent Of				
Value	Count	All Obs	Missing Obs			
	46	0.92	100.00			

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Fitted Normal Distribution for SATIS13

Parameters for Normal Distribution						
Parameter Symbol Estimat						
Mean	Mu	3.745458				
Std Dev	Sigma	0.982588				

Goodness-of-Fit Tests for Normal Distribution								
Test	Statistic p Value							
Kolmogorov-Smirnov	D	0.251577	Pr > D <0.0					
Cramer-von Mises	W-Sq	45.055238	Pr > W-Sq	<0.005				
Anderson-Darling	A-Sq	255.233882	Pr > A-Sq	<0.005				

Quantiles for Normal Distribution						
	Quantile					
Percent	Observed	Estimated				
1.0	2.00000	1.45962				
5.0	2.00000	2.12924				
10.0	2.00000	2.48622				
25.0	3.00000	3.08271				
50.0	4.00000	3.74546				
75.0	4.00000	4.40820				
90.0	5.00000	5.00470				
95.0	5.00000	5.36167				
99.0	5.00000	6.03130				

Correlation Matrix (Ad-Hoc Association Check)

10 Variables: SATIS28 COLLGPA SLFCHG01 SLFCHG02 SLFCHG03 SLFCHG04 CSSRAT01 CSSRAT07 SUCCESS4 SATIS13

Simple Statistics										
Variable N Mean Std Dev Median Minimum Maxim										
SATIS28	4950	4.16606	0.75345	4.00000	1.00000	5.00000				
COLLGPA	4961	4.62790	0.88595	5.00000	1.00000	6.00000				
SLFCHG01	4937	4.47316	0.57513	5.00000	1.00000	5.00000				

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Simple Statistics										
Variable	N	Mean	Std Dev	Median	Minimum	Maximum				
SLFCHG02	4931	4.30582	0.61602	4.00000	1.00000	5.00000				
SLFCHG03	4930	4.63976	0.53678	5.00000	1.00000	5.00000				
SLFCHG04	HG04 4930 4		0.62127	4.00000	1.00000	5.00000				
CSSRAT01	4901	3.97388	0.69820	4.00000	1.00000	5.00000				
CSSRAT07	4896	4.07292	0.80410	4.00000	1.00000	5.00000				
SUCCESS4	4914	2.63207	0.51455	3.00000	1.00000	3.00000				
SATIS13	4954	3.74546	0.98259	4.00000	1.00000	5.00000				

	Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	SATIS28	COLLGPA	SLFCHG01	SLFCHG02	SLFCHG03	SLFCHG04	CSSRAT01	CSSRAT07	SUCCESS4	SATIS13	
SATIS28	1.00000 4950	0.12892 <.0001 4940	0.26914 <.0001 4919	0.23622 <.0001 4914	0.29754 <.0001 4913	0.25951 <.0001 4913	0.12127 <.0001 4885	0.10139 <.0001 4881	0.20615 <.0001 4898	0.52828 <.0001 4945	
COLLGPA	0.12892 <.0001 4940	1.00000 4961	0.04101 0.0040 4923	0.05897 <.0001 4918	0.15316 <.0001 4917	0.06784 <.0001 4917	0.50142 <.0001 4888	0.17810 <.0001 4884	0.34176 <.0001 4901	0.07664 <.0001 4942	
SLFCHG01	0.26914 <.0001 4919	0.04101 0.0040 4923	1.00000 4937	0.55576 <.0001 4930	0.44344 <.0001 4929	0.52254 <.0001 4929	0.11734 <.0001 4893	0.16216 <.0001 4888	0.18629 <.0001 4905	0.16578 <.0001 4921	
SLFCHG02	0.23622 <.0001 4914	0.05897 <.0001 4918	0.55576 <.0001 4930	1.00000 4931	0.44455 <.0001 4929	0.64608 <.0001 4928	0.13350 <.0001 4889	0.17443 <.0001 4885	0.20064 <.0001 4902	0.14751 <.0001 4917	
SLFCHG03	0.29754 <.0001 4913	0.15316 <.0001 4917	0.44344 <.0001 4929	0.44455 <.0001 4929	1.00000 4930	0.48739 <.0001 4927	0.20762 <.0001 4888	0.15037 <.0001 4884	0.23225 <.0001 4901	0.17352 <.0001 4916	
SLFCHG04	0.25951 <.0001 4913	0.06784 <.0001 4917	0.52254 <.0001 4929	0.64608 <.0001 4928	0.48739 <.0001 4927	1.00000 4930	0.16784 <.0001 4888	0.19008 <.0001 4884	0.20118 <.0001 4901	0.16111 <.0001 4916	
CSSRAT01	0.12127 <.0001 4885	0.50142 <.0001 4888	0.11734 <.0001 4893	0.13350 <.0001 4889	0.20762 <.0001 4888	0.16784 <.0001 4888	1.00000 4901	0.35384 <.0001 4890	0.28597 <.0001 4890	0.06672 <.0001 4888	
CSSRAT07	0.10139 <.0001 4881	0.17810 <.0001 4884	0.16216 <.0001 4888	0.17443 <.0001 4885	0.15037 <.0001 4884	0.19008 <.0001 4884	0.35384 <.0001 4890	1.00000 4896	0.26024 <.0001 4886	0.08867 <.0001 4884	
SUCCESS4	0.20615 <.0001 4898	0.34176 <.0001 4901	0.18629 <.0001 4905	0.20064 <.0001 4902	0.23225 <.0001 4901	0.20118 <.0001 4901	0.28597 <.0001 4890	0.26024 <.0001 4886	1.00000 4914	0.14683 <.0001 4901	
SATIS13	0.52828 <.0001 4945	0.07664 <.0001 4942	0.16578 <.0001 4921	0.14751 <.0001 4917	0.17352 <.0001 4916	0.16111 <.0001 4916	0.06672 <.0001 4888	0.08867 <.0001 4884	0.14683 <.0001 4901	1.00000 4954	

	Spearman Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	SATIS28	COLLGPA	SLFCHG01	SLFCHG02	SLFCHG03	SLFCHG04	CSSRAT01	CSSRAT07	SUCCESS4	SATIS13	
SATIS28	1.00000 4950	0.11734 <.0001 4940	0.26710 <.0001 4919	0.22716 <.0001 4914	0.28993 <.0001 4913	0.25971 <.0001 4913	0.11639 <.0001 4885	0.09722 <.0001 4881	0.20344 <.0001 4898	0.53051 <.0001 4945	
COLLGPA	0.11734 <.0001 4940	1.00000 4961	0.03332 0.0194 4923	0.05636 <.0001 4918	0.15029 <.0001 4917	0.05770 <.0001 4917	0.50672 <.0001 4888	0.17726 <.0001 4884	0.33404 <.0001 4901	0.07393 <.0001 4942	
SLFCHG01	0.26710 <.0001 4919	0.03332 0.0194 4923	1.00000 4937	0.53843 <.0001 4930	0.41491 <.0001 4929	0.52045 <.0001 4929	0.10802 <.0001 4893	0.16185 <.0001 4888	0.17739 <.0001 4905	0.16662 <.0001 4921	
SLFCHG02	0.22716 <.0001 4914	0.05636 <.0001 4918	0.53843 <.0001 4930	1.00000 4931	0.42300 <.0001 4929	0.64591 <.0001 4928	0.12707 <.0001 4889	0.17148 <.0001 4885	0.19228 <.0001 4902	0.14874 <.0001 4917	
SLFCHG03	0.28993 <.0001 4913	0.15029 <.0001 4917	0.41491 <.0001 4929	0.42300 <.0001 4929	1.00000 4930	0.46571 <.0001 4927	0.19320 <.0001 4888	0.14394 <.0001 4884	0.23083 <.0001 4901	0.16906 <.0001 4916	
SLFCHG04	0.25971 <.0001 4913	0.05770 <.0001 4917	0.52045 <.0001 4929	0.64591 <.0001 4928	0.46571 <.0001 4927	1.00000 4930	0.16210 <.0001 4888	0.19104 <.0001 4884	0.19673 <.0001 4901	0.16910 <.0001 4916	
CSSRAT01	0.11639 <.0001 4885	0.50672 <.0001 4888	0.10802 <.0001 4893	0.12707 <.0001 4889	0.19320 <.0001 4888	0.16210 <.0001 4888	1.00000 4901	0.36109 <.0001 4890	0.27908 <.0001 4890	0.06288 <.0001 4888	
CSSRAT07	0.09722 <.0001 4881	0.17726 <.0001 4884	0.16185 <.0001 4888	0.17148 <.0001 4885	0.14394 <.0001 4884	0.19104 <.0001 4884	0.36109 <.0001 4890	1.00000 4896	0.25239 <.0001 4886	0.08565 <.0001 4884	
SUCCESS4	0.20344 <.0001 4898	0.33404 <.0001 4901	0.17739 <.0001 4905	0.19228 <.0001 4902	0.23083 <.0001 4901	0.19673 <.0001 4901	0.27908 <.0001 4890	0.25239 <.0001 4886	1.00000 4914	0.15038 <.0001 4901	
SATIS13	0.53051 <.0001 4945	0.07393 <.0001 4942	0.16662 <.0001 4921	0.14874 <.0001 4917	0.16906 <.0001 4916	0.16910 <.0001 4916	0.06288 <.0001 4888	0.08565 <.0001 4884	0.15038 <.0001 4901	1.00000 4954	

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