Name of Variable = sales	
Period(s) of Differencing	1
Mean of Working Series	1628.263
Standard Deviation	26754.34
Number of Observations	47
Observation(s) eliminated by differencing	1

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	19.93	6	0.0029	-0.395	-0.127	0.177	-0.112	-0.183	0.357

Trend and Correlation Analysis for sales(1)
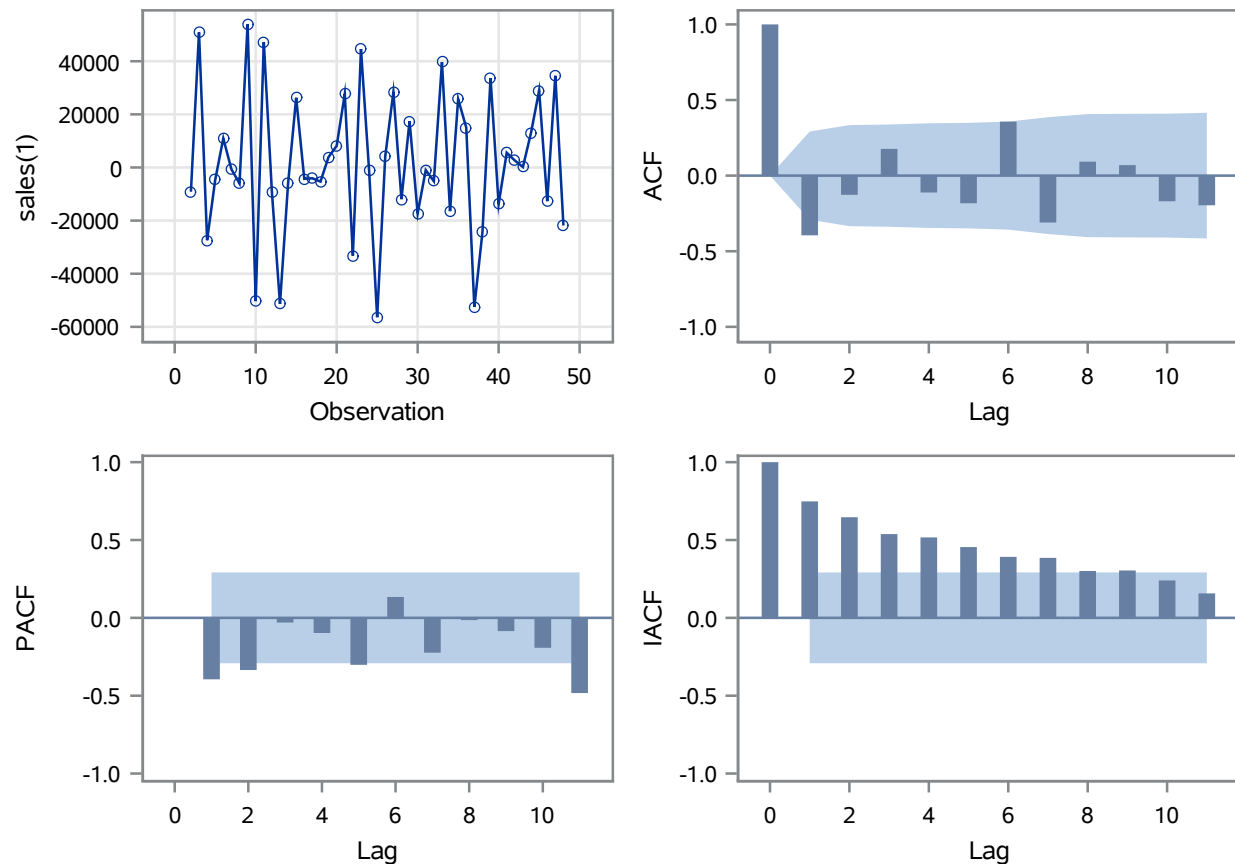
Maximum Likelihood Estimation					
Parameter	Estimate	Standard Error	t Value	Approx Pr > |t|	Lag
MU	753.18647	4066.1	0.19	0.8530	0
AR1,1	-0.46679	0.12014	-3.89	0.0001	1
AR2,1	0.86760	0.05115	16.96	<.0001	12

Constant Estimate	146.2712
Variance Estimate	1.8242E8
Std Error Estimate	13506.46
AIC	1047.32
SBC	1052.871
Number of Residuals	47

Correlations of Parameter Estimates			
Parameter	**MU**	**AR1,1**	**AR2,1**
MU	1.000	-0.024	-0.009
AR1,1	-0.024	1.000	-0.011
AR2,1	-0.009	-0.011	1.000

Autocorrelation Check of Residuals									
To Lag	**Chi-Square**	**DF**	**Pr > ChiSq**	**Autocorrelations**					
6	9.17	4	0.0569	-0.171	-0.116	0.157	-0.313	-0.077	-0.052
12	15.72	10	0.1079	0.056	0.114	-0.103	0.121	-0.007	-0.248
18	24.29	16	0.0833	0.185	-0.069	-0.140	-0.038	0.238	0.027
24	31.63	22	0.0839	-0.133	0.191	-0.153	-0.062	0.060	-0.004

Residual Correlation Diagnostics for sales(1)

Residual Normality Diagnostics for sales(1)

Residual Q-Q Plot for sales(1)
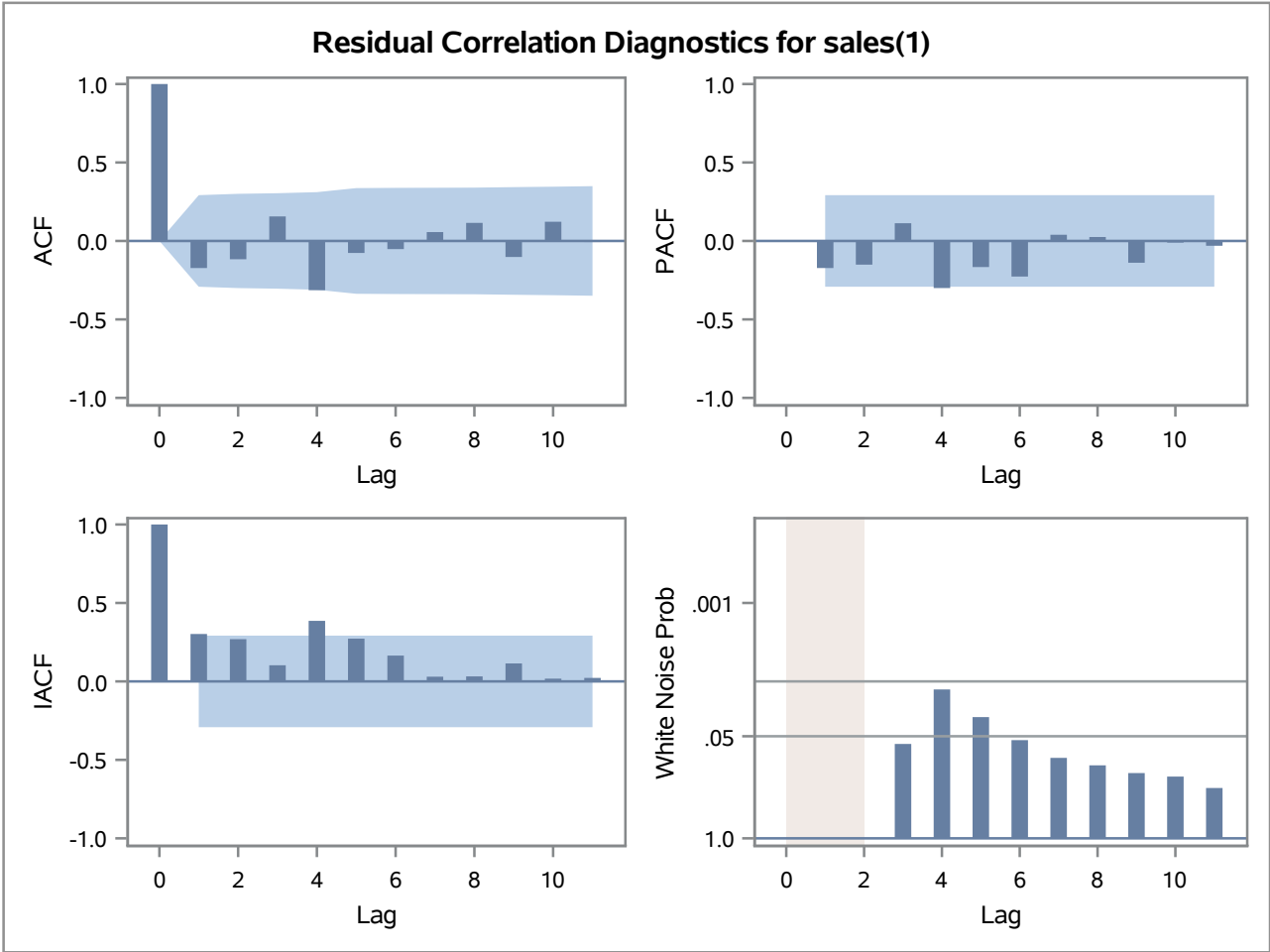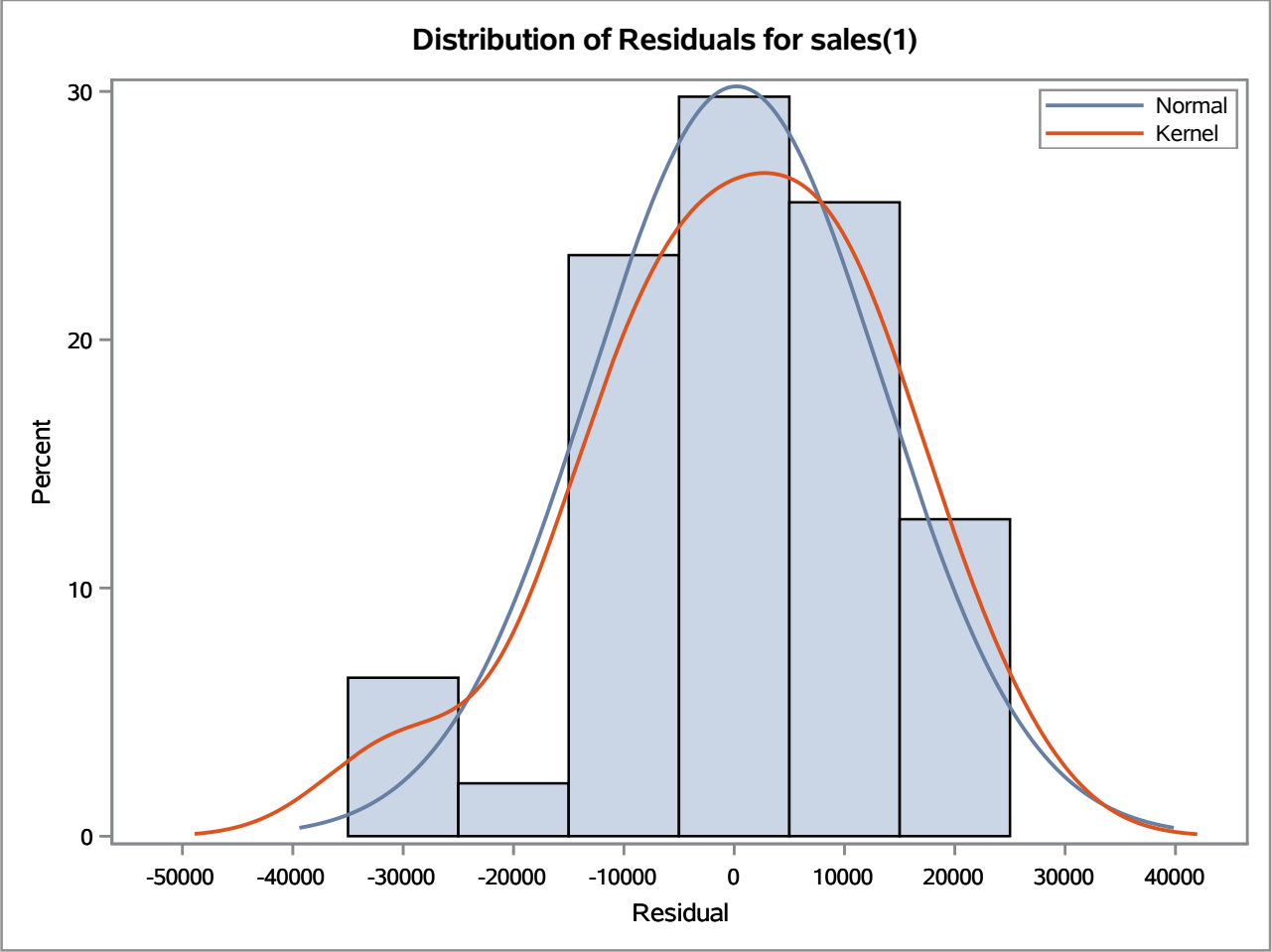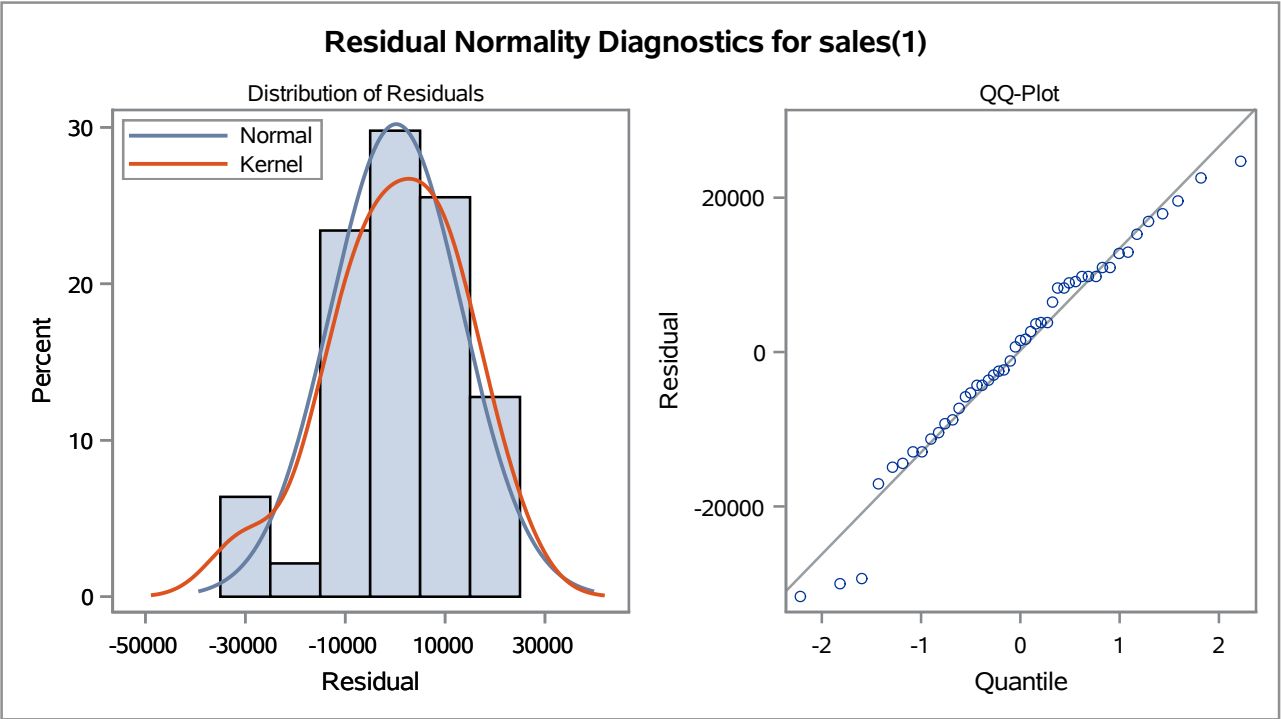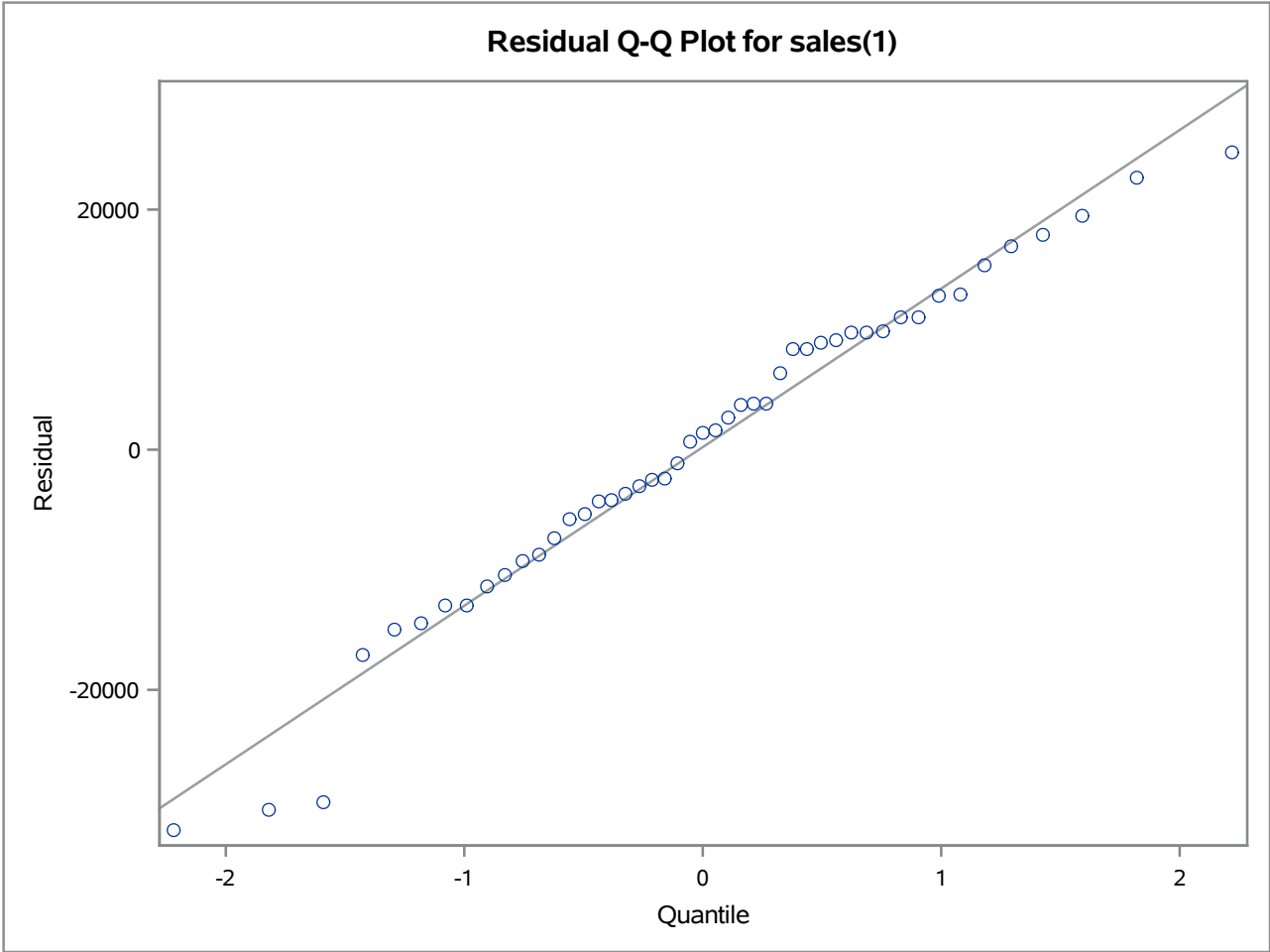
Model for variable sales	
Estimated Mean	753.1865
Period(s) of Differencing	1

Autoregressive Factors	
Factor 1:	1 + 0.46679 B**(1)
Factor 2:	1 - 0.8676 B**(12)

Warning: The ID value for observation 3 is the same as the ID value for the last observation according to ID variable ORDER_DATE.

Warning: There are gaps in the interval for observation 5 according to ID variable ORDER_DATE.

Warning: The ID value for observation 6 is the same as the ID value for the last observation according to ID variable ORDER_DATE.

Warning: There are gaps in the interval for observation 8 according to ID variable ORDER_DATE.

Warning: The ID value for observation 9 is the same as the ID value for the last observation according to ID variable ORDER_DATE.

Warning: There are gaps in the interval for observation 10 according to ID variable ORDER_DATE.

Warning: The ID value for observation 12 is the same as the ID value for the last observation according to ID variable ORDER_DATE.

Warning: There are gaps in the interval for observation 13 according to ID variable ORDER_DATE.

Warning: The ID value for observation 15 is the same as the ID value for the last observation according to ID variable ORDER_DATE.

Warning: There are gaps in the interval for observation 16 according to ID variable ORDER_DATE.

Warning: The ID value for observation 18 is the same as the ID value for the last observation according to ID variable ORDER_DATE.

Warning: There are gaps in the interval for observation 19 according to ID variable ORDER_DATE.

Note: Further warnings will not be printed.

Warning: The ID value for observation 21 is the same as the ID value for the last observation according to ID variable ORDER_DATE.
Warning: The ID value for observation 27 is the same as the ID value for the last observation according to ID variable ORDER_DATE.

Warning: The ID value for observation 30 is the same as the ID value for the last observation according to ID variable ORDER_DATE.

		Forecasts for variable sales				
Obs	**Forecast**	**Std Error**	**95% Confidence Limits**		**Actual**	**Residual**
37	41021.5657	13506.459	14549.3917	67493.7397	44703.1420	3681.5763
38	48329.4451	15306.522	18329.2132	78329.6770	20283.5134	-28045.9317
39	71385.2599	18363.152	35394.1438	107376.3759	53908.9620	-17476.2979
40	61880.8553	20350.315	21994.9712	101766.7393	40112.4209	-21768.4344
41	76762.2033	22421.541	32816.7902	120707.6164	45651.2362	-31110.9671
42	62050.6629	24202.695	14614.2524	109487.0735	48259.7487	-13790.9142
43	61215.1467	25911.032	10430.4577	111999.8358	48428.3650	-12786.7817
44	56860.6216	27491.634	2978.0086	110743.2347	61516.0860	4655.4644
45	91337.5319	28995.840	34506.7307	148168.3331	90488.7220	-848.8099
46	77177.3778	30421.467	17552.3980	136802.3577	77793.7552	616.3774
47	99596.1139	31785.134	37298.3953	161893.8325	112326.4710	12730.3571
48	112750.6583	33091.794	47891.9336	177609.3831	90474.6008	-22276.0575

Forecasts for sales
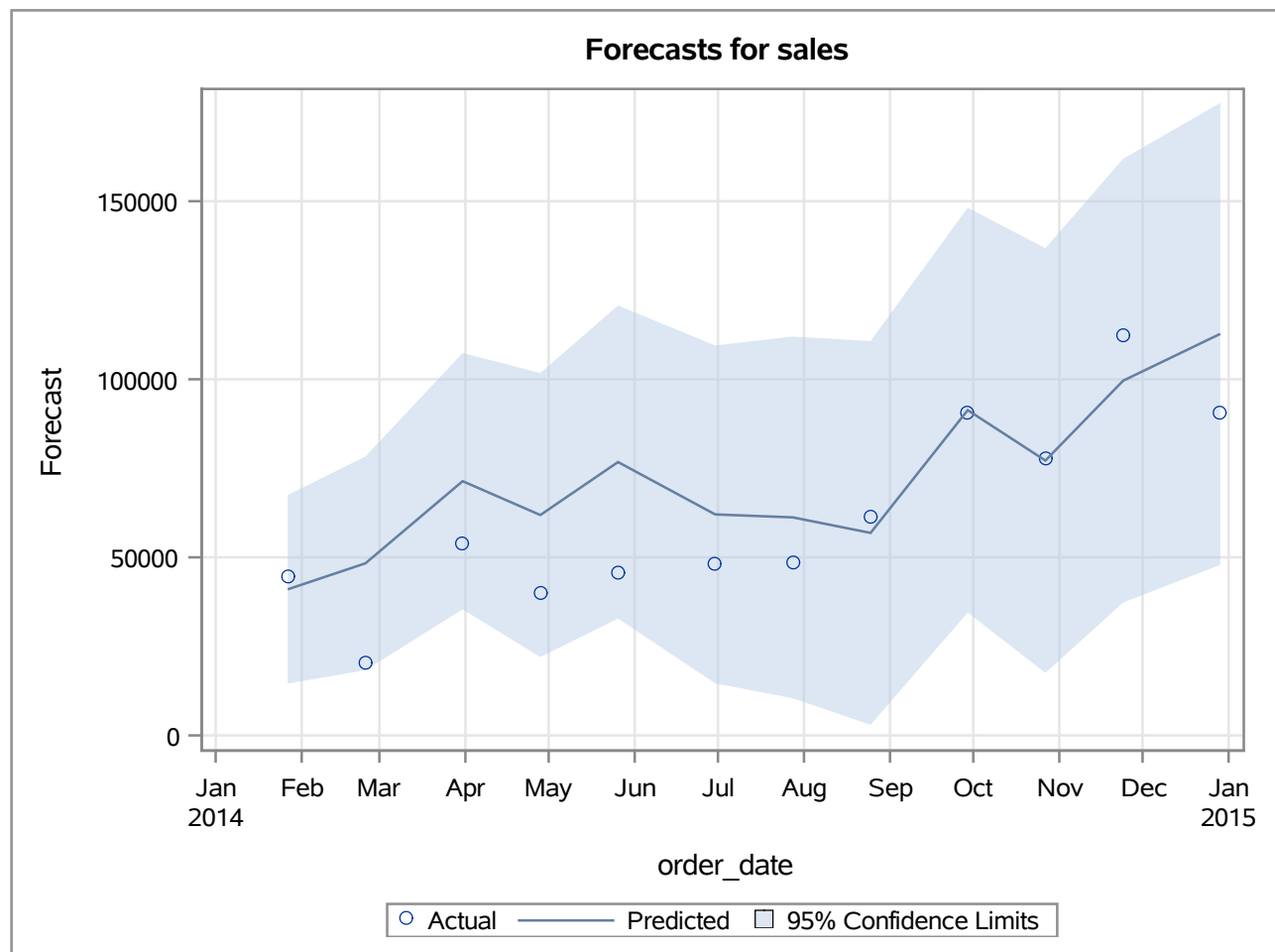
Outlier Detection Summary	
Maximum number searched	1
Number found	1
Significance used	0.05

Outlier Details				
Obs	**Type**	**Estimate**	**Chi-Square**	**Approx Prob>ChiSq**
36	Additive	20969.0	5.25	0.0219

Obs	rmse	mae	mape
1	18642.26	14109.61	41.3661