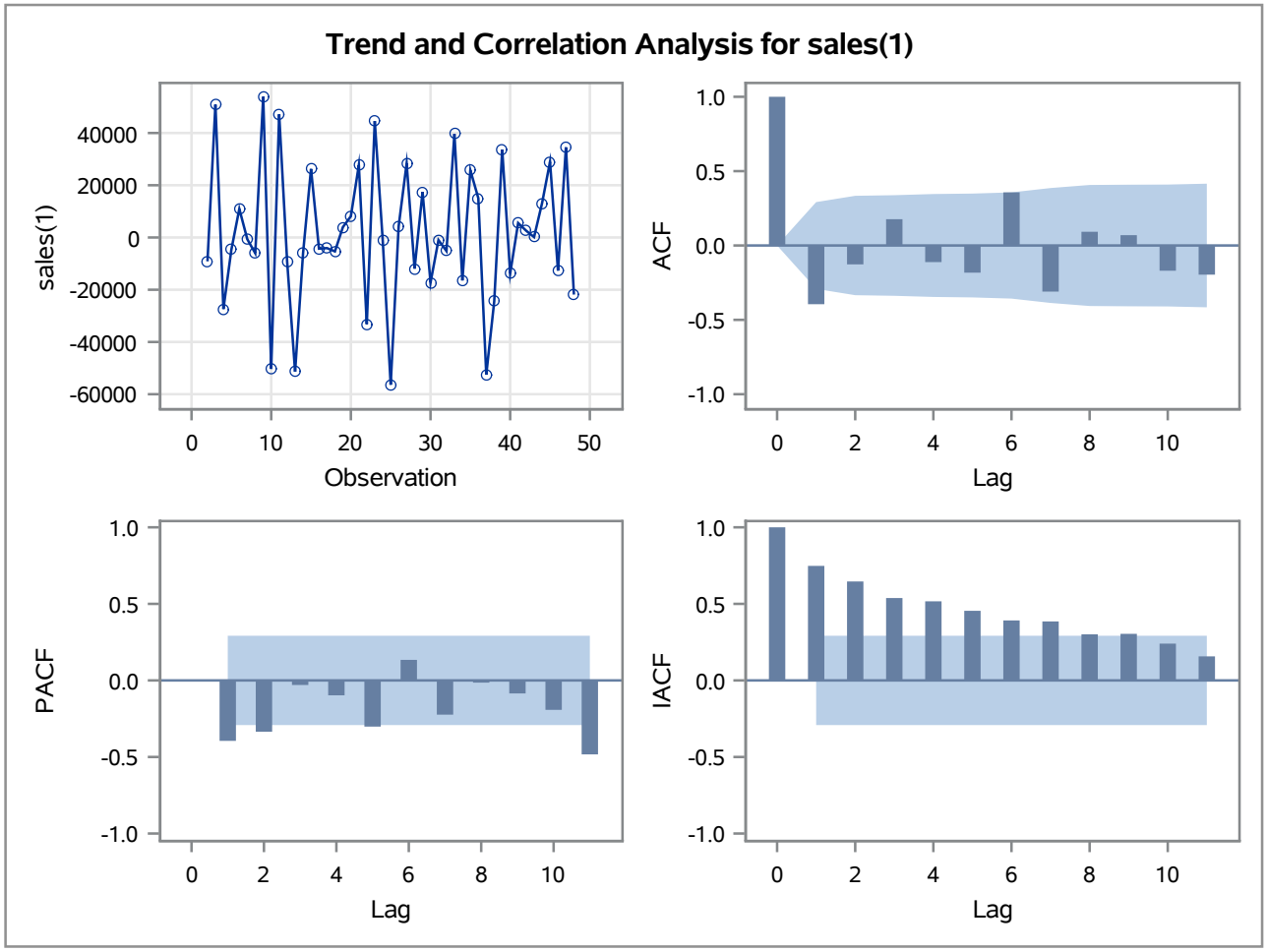
Name of Variable = sales	
Period(s) of Differencing	1
Mean of Working Series	1628.263
Standard Deviation	26754.34
Number of Observations	47
Observation(s) eliminated by differencing	1

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

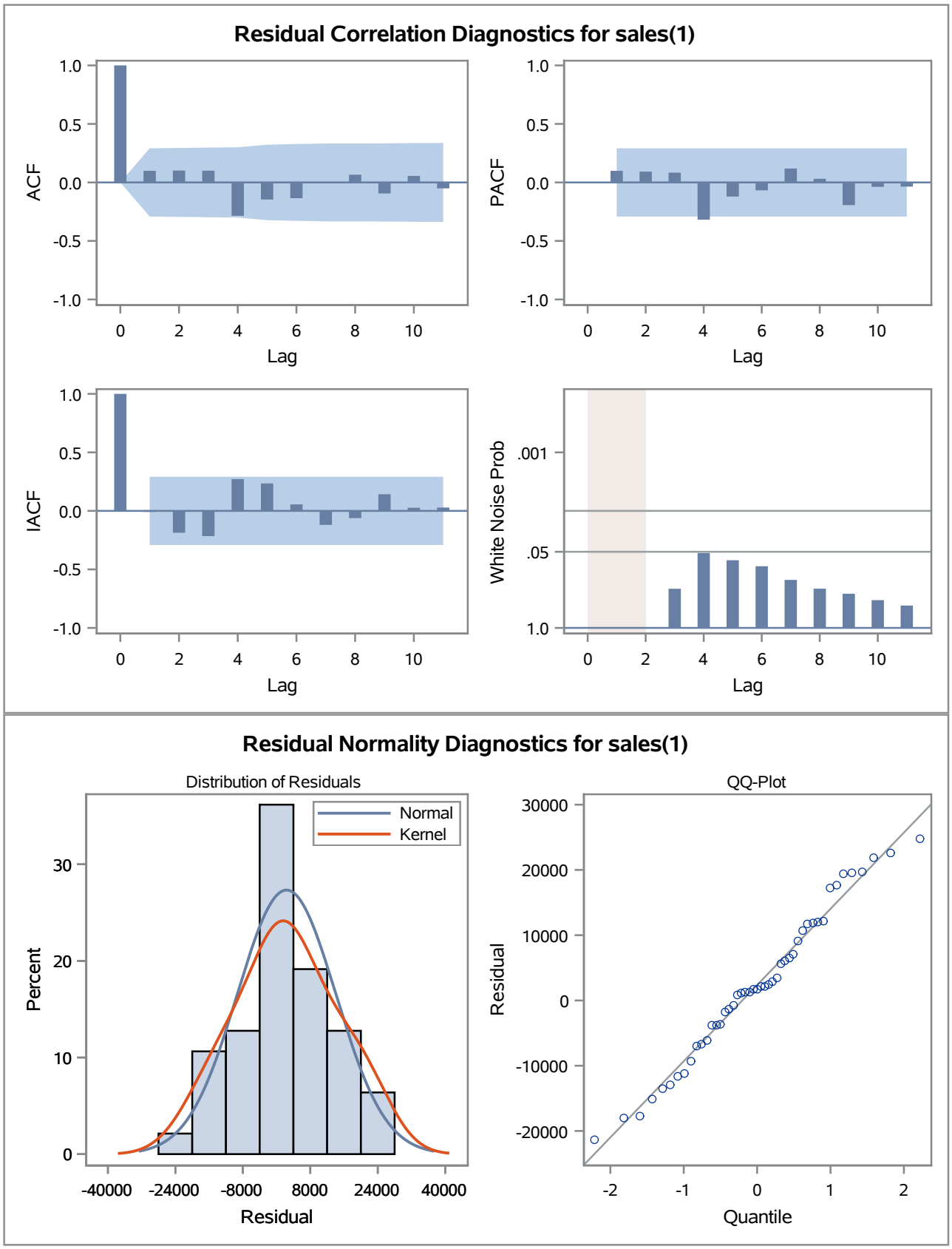


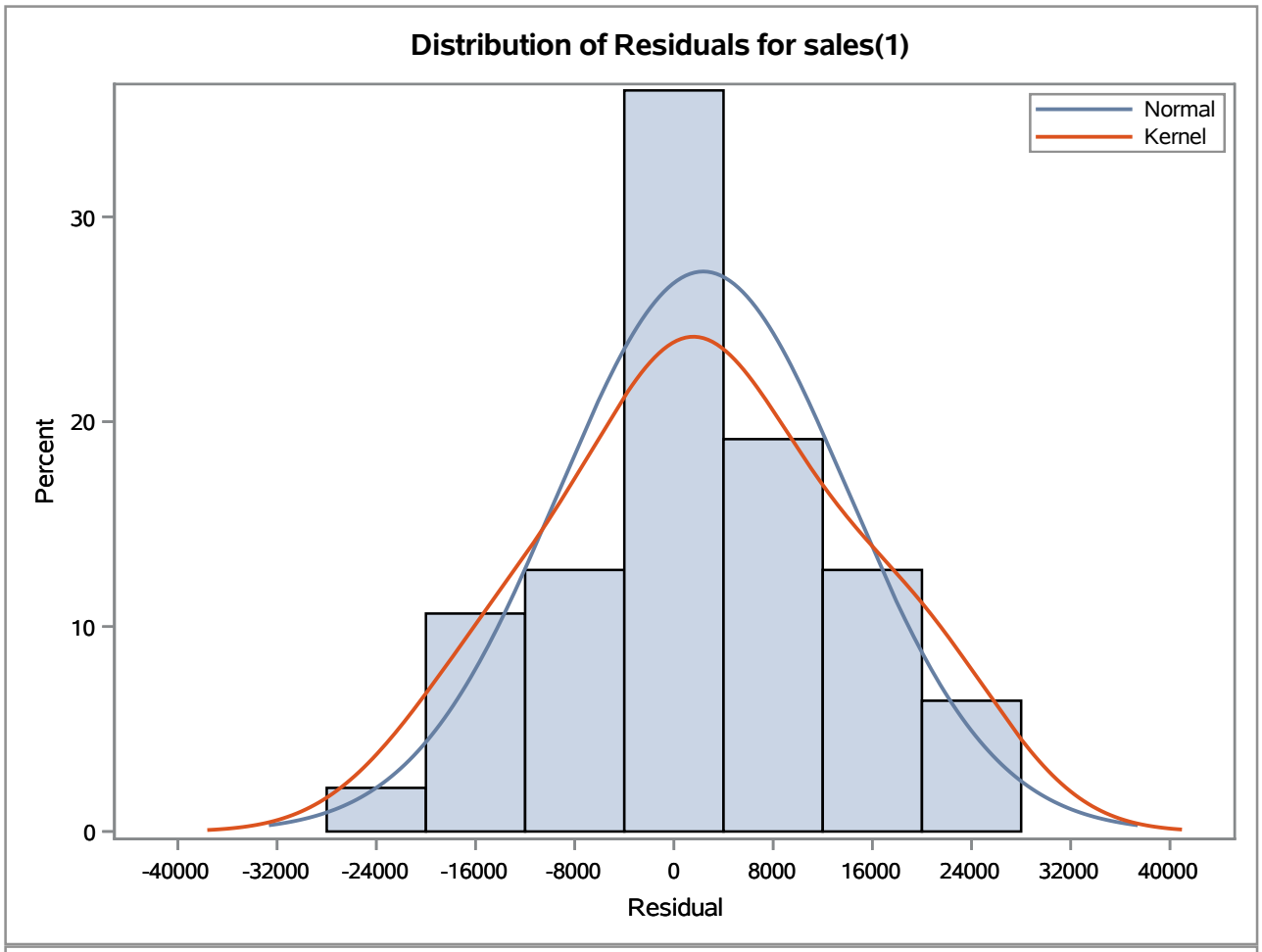
Maximum Likelihood Estimation					
Parameter	Estimate	Standard Error	t Value	Approx Pr > |t|	Lag
MU	629.90503	697.38167	0.90	0.3664	0
MA1,1	0.88119	0.06552	13.45	<.0001	1
AR1,1	0.86890	0.05400	16.09	<.0001	12

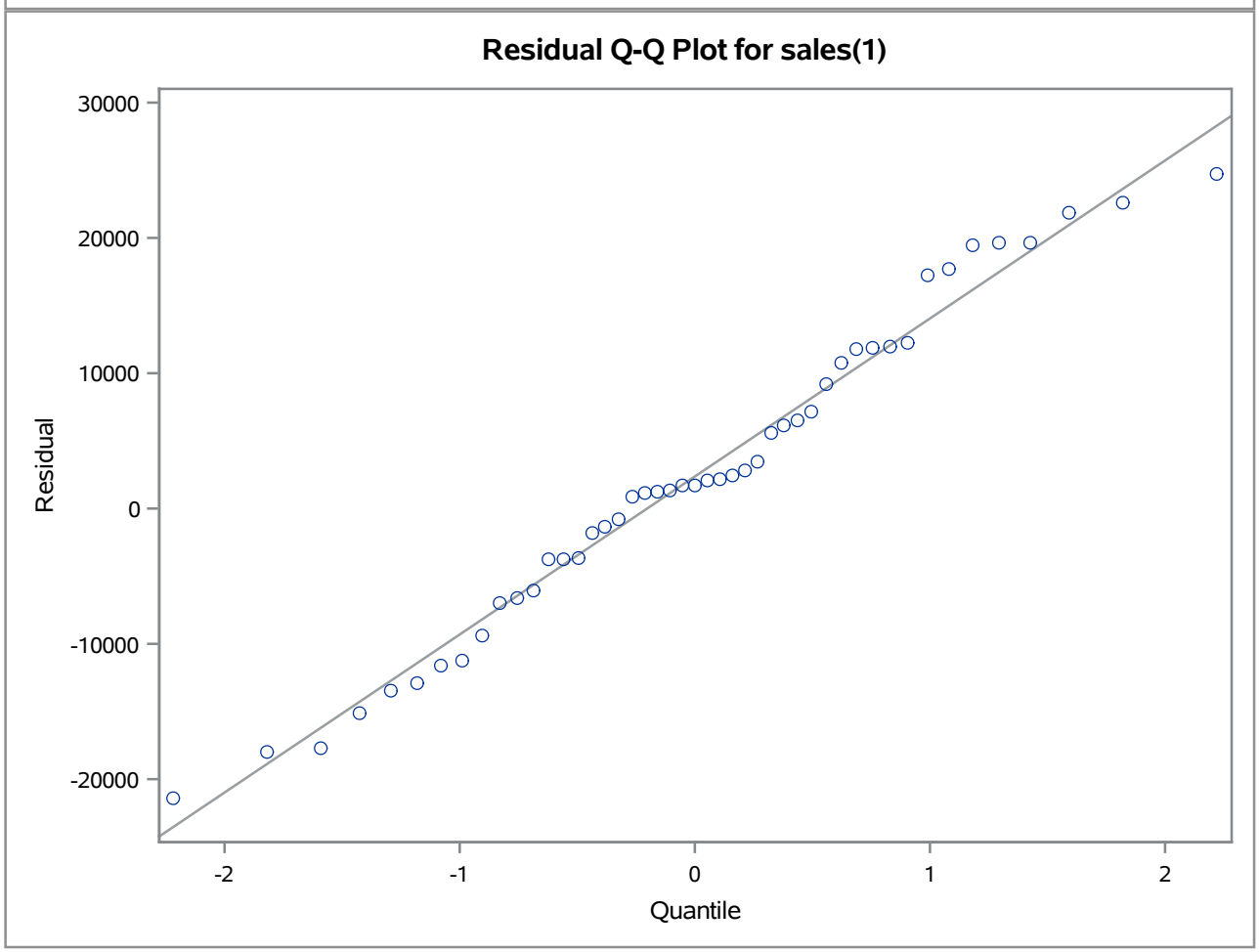
Constant Estimate	82.57937
Variance Estimate	1.4854E8
Std Error Estimate	12187.75
AIC	1038.603
SBC	1044.153
Number of Residuals	47

Correlations of Parameter Estimates			
Parameter	**MU**	**MA1,1**	**AR1,1**
MU	1.000	0.295	0.162
MA1,1	0.295	1.000	0.114
AR1,1	0.162	0.114	1.000

Autocorrelation Check of Residuals									
To Lag	**Chi-Square**	**DF**	**Pr > ChiSq**	**Autocorrelations**					
6	7.47	4	0.1130	0.143	0.131	0.126	-0.247	-0.120	-0.111
12	12.90	10	0.2292	0.013	0.081	-0.067	0.073	-0.026	-0.258
18	19.04	16	0.2665	0.068	-0.117	-0.083	0.001	0.210	0.111
24	23.91	22	0.3518	-0.039	0.190	-0.050	0.011	0.100	0.070


Residual Correlation Diagnostics for sales(1)
ACF
PACF
IACF
White Noise Prob
Lag
Residual Normality Diagnostics for sales(1)
Distribution of Residuals
Normal
Kernel
Percent
Residual
QQ-Plot
Residual
Quantile


Distribution of Residuals for sales(1)
Normal
Kernel
Percent
30
20
10
0
-40000
-32000
-24000
-16000
-8000
0
8000
16000
24000
32000
40000
Residual


Residual Q-Q Plot for sales(1)
Residual
30000
20000
10000
0
-10000
-20000
-2
-1
0
1
2
Quantile

Model for variable sales	
Estimated Mean	629.905
Period(s) of Differencing	1

Autoregressive Factors	
Factor 1:	1 - 0.8689 B**(12)

Moving Average Factors	
Factor 1:	1 - 0.88119 B**(1)

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.

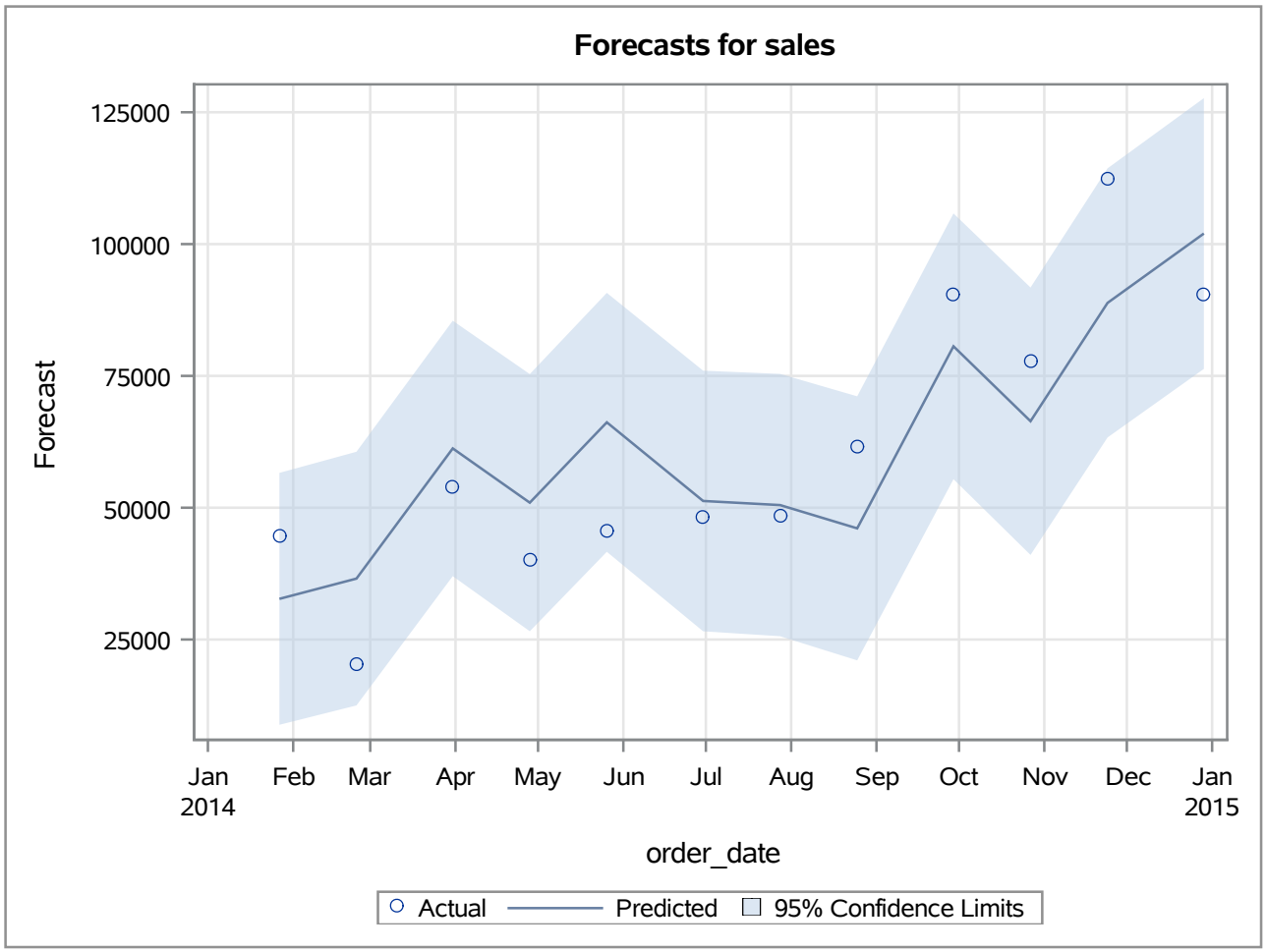
Note: Further warnings will not be printed.

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	32714.3310	12187.745	8826.7896	56601.8724	44703.1420	11988.8110
38	36555.1021	12273.464	12499.5556	60610.6486	20283.5134	-16271.5887
39	61243.6843	12358.587	37021.2980	85466.0705	53908.9620	-7334.7223
40	50953.6398	12443.129	26565.5551	75341.7246	40112.4209	-10841.2189
41	66192.0262	12527.100	41639.3612	90744.6911	45651.2362	-20540.7900
42	51276.8084	12610.512	26560.6591	75992.9577	48259.7487	-3017.0597
43	50499.4460	12693.376	25620.8866	75378.0054	48428.3650	-2071.0810
44	46085.2925	12775.702	21045.3764	71125.2086	61516.0860	15430.7935
45	80613.3530	12857.501	55413.1133	105813.5926	90488.7220	9875.3690
46	66406.8594	12938.784	41047.3098	91766.4091	77793.7552	11386.8958
47	88845.5825	13019.558	63327.7174	114363.4477	112326.4710	23480.8885
48	102000.8724	13099.835	76325.6680	127676.0768	90474.6008	-11526.2716



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

Outlier Details				
Obs	**Type**	**Estimate**	**Chi-Square**	**Approx Prob>ChiSq**
29	Additive	20677.9	7.18	0.0074

Obs	rmse	mae	mape
1	16023.74	11673.00	29.2295