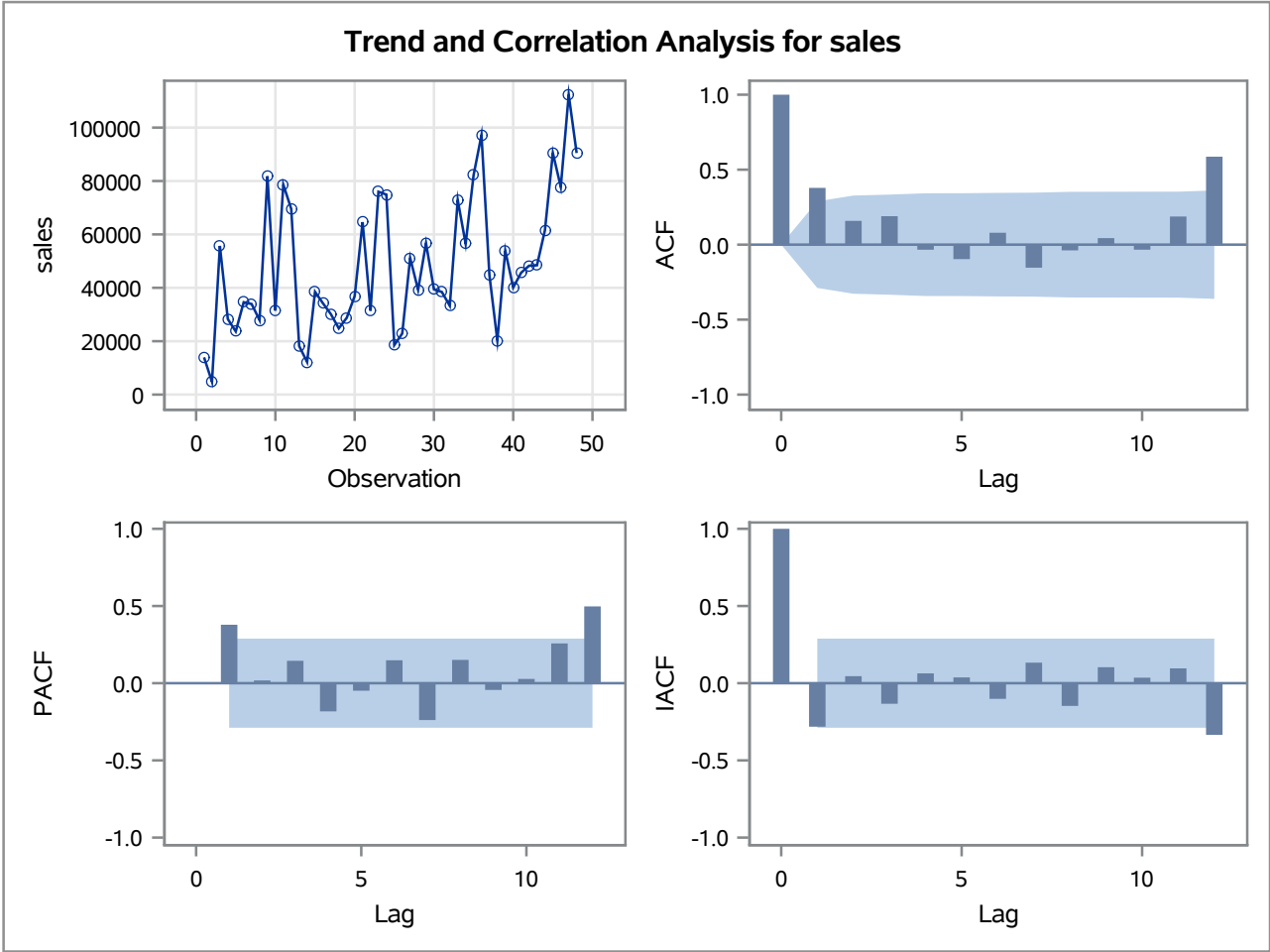


Name of Variable = sales	
Mean of Working Series	47858.35
Standard Deviation	24812.49
Number of Observations	48

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	11.48	6	0.0745	0.378	0.158	0.190	-0.034	-0.096	0.079
12	38.35	12	0.0001	-0.154	-0.038	0.043	-0.034	0.188	0.587

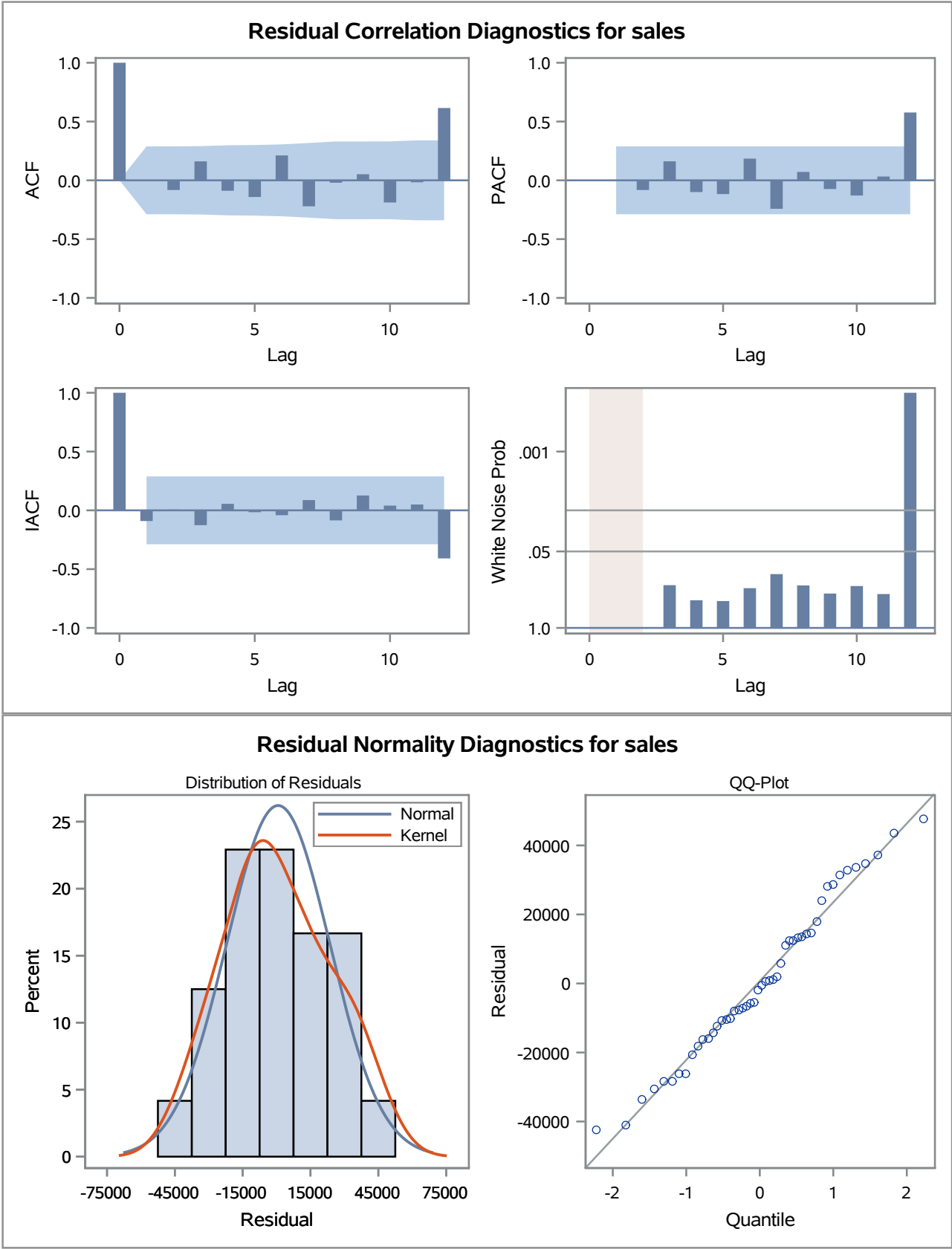


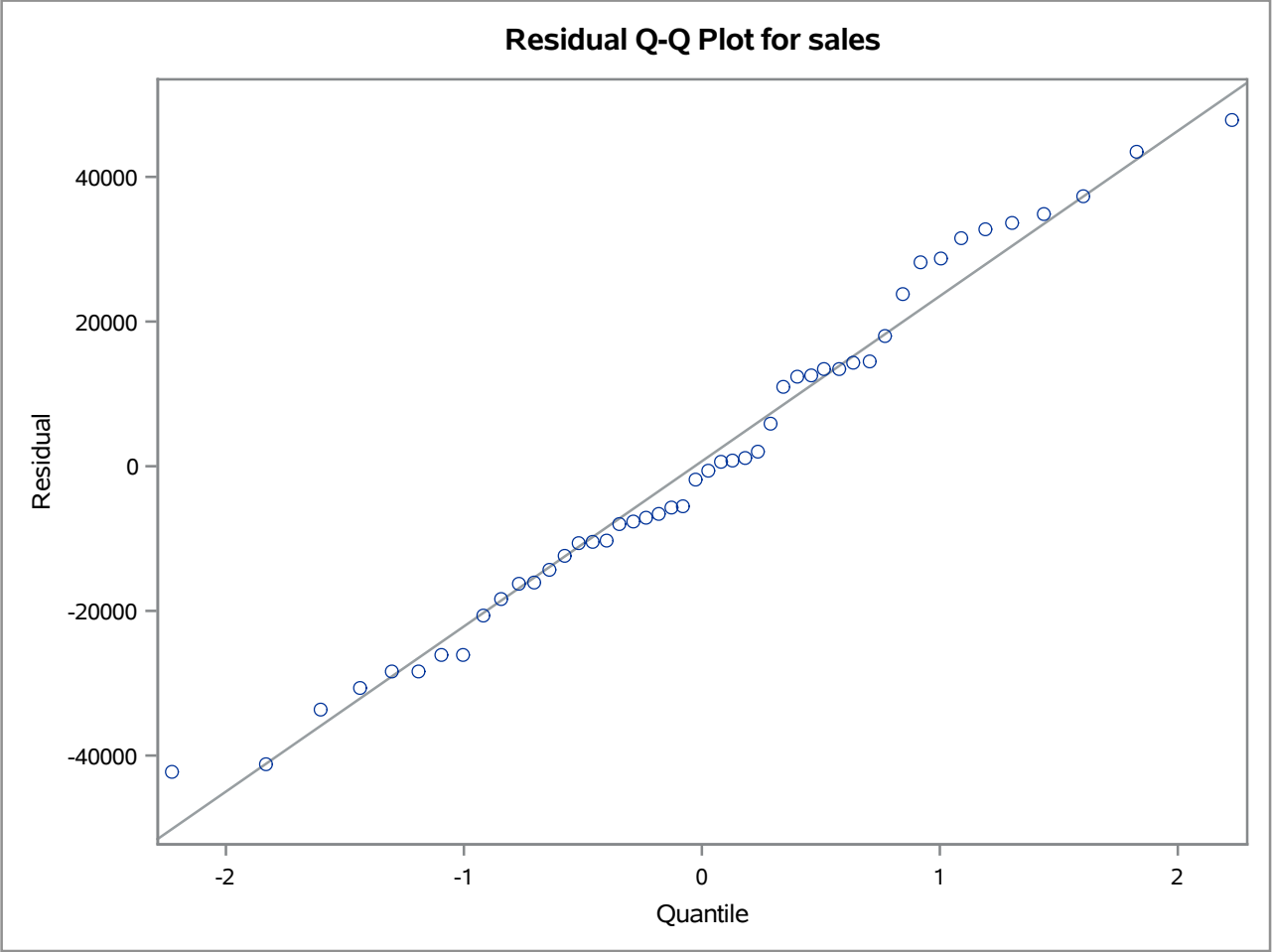
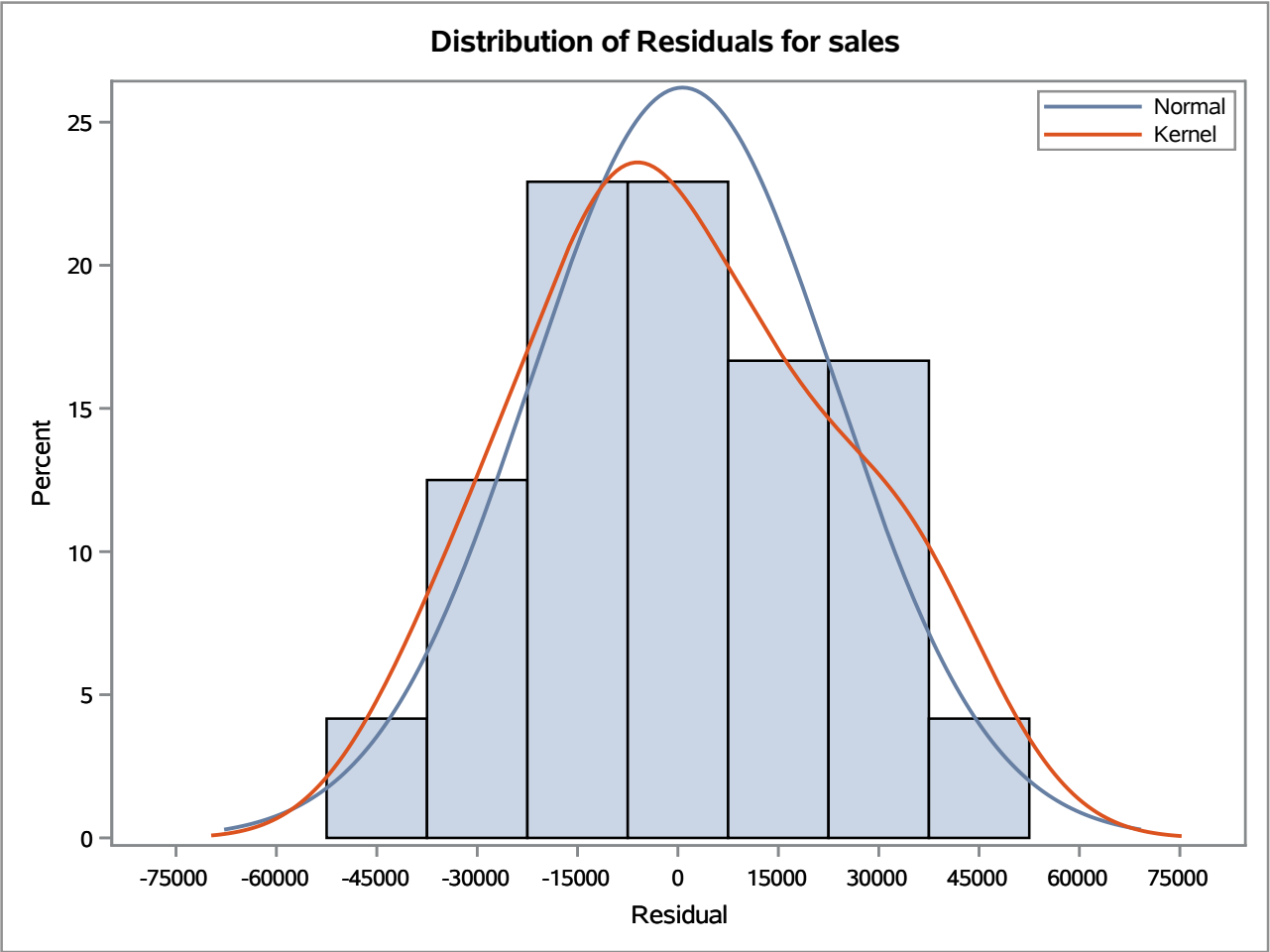
Maximum Likelihood Estimation					
Parameter	Estimate	Standard Error	t Value	Approx Pr > t	Lag
MU	48295.7	7286.0	6.63	<.0001	0
MA1,1	0.30915	0.35746	0.86	0.3871	1
AR1,1	0.67946	0.29690	2.29	0.0221	1

Constant Estimate	15480.55
Variance Estimate	5.4512E8
Std Error Estimate	23347.89
AIC	1104.962
SBC	1110.575
Number of Residuals	48

Correlations of Parameter Estimates			
Parameter	MU	MA1,1	AR1,1
MU	1.000	0.235	0.273
MA1,1	0.235	1.000	0.916
AR1,1	0.273	0.916	1.000

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	5.83	4	0.2124	-0.002	-0.081	0.161	-0.089	-0.142	0.211
12	36.28	10	<.0001	-0.221	-0.020	0.051	-0.189	-0.017	0.614
18	40.02	16	0.0008	0.044	-0.072	0.052	-0.076	-0.103	0.150
24	62.25	22	<.0001	-0.195	-0.000	0.016	-0.195	-0.060	0.390





Model for variable sales	
Estimated Mean	48295.73

Autoregressive Factors	
Factor 1:	1 - 0.67946 B**(1)

Moving Average Factors	
Factor 1:	1 - 0.30915 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.

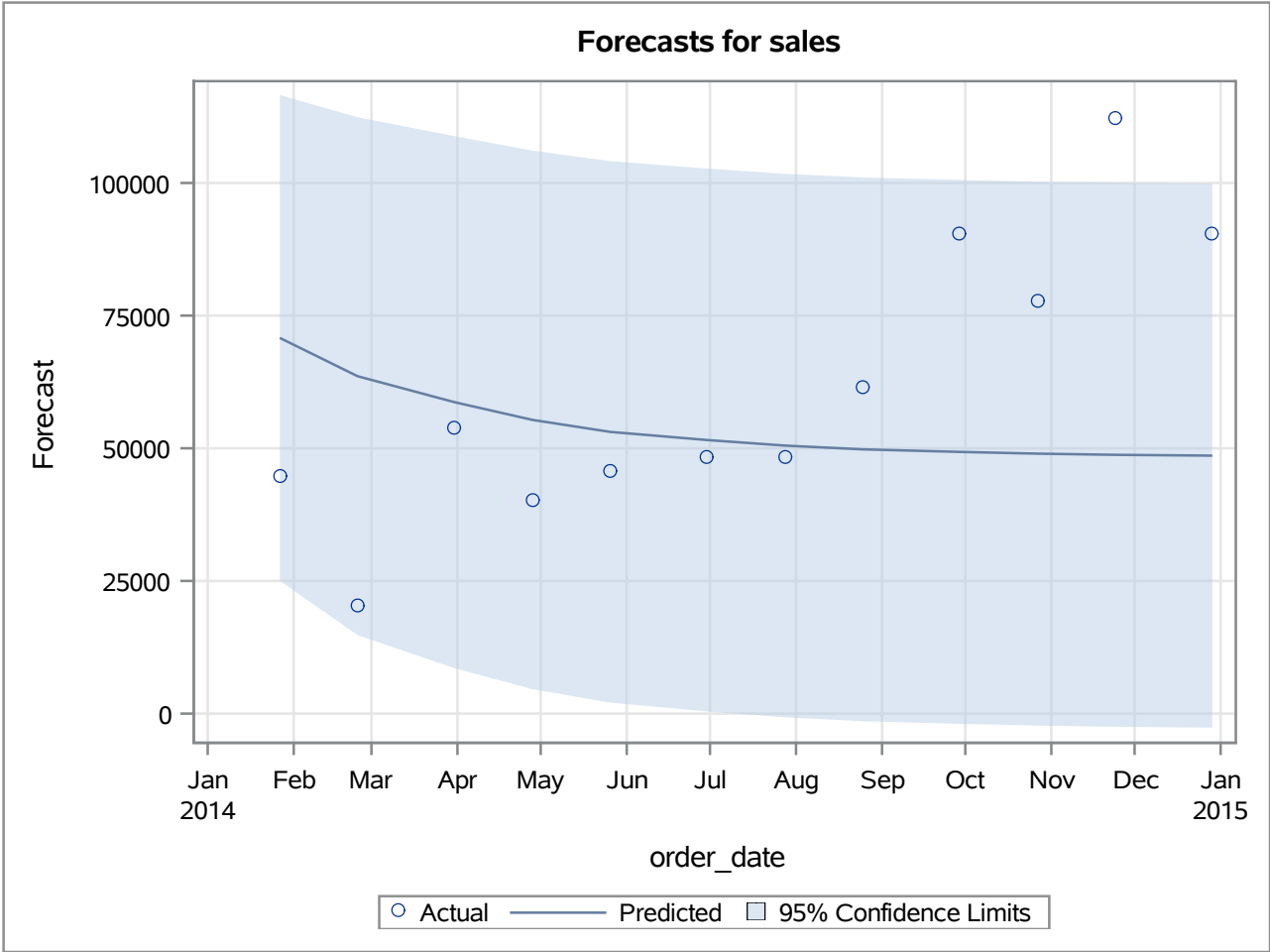
Note: Further warnings will not be printed.

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	70794.7195	23347.888	25033.7000	116555.7390	44703.1420	-26091.5775
38	63582.9725	24897.313	14785.1361	112380.8088	20283.5134	-43299.4591
39	58682.8536	25580.992	8545.0315	108820.6758	53908.9620	-4773.8916
40	55353.4018	25890.535	4608.8850	106097.9186	40112.4209	-15240.9809
41	53091.1608	26032.201	2068.9850	104113.3367	45651.2362	-7439.9246
42	51554.0507	26097.344	404.1963	102703.9050	48259.7487	-3294.3020
43	50509.6405	26127.364	-699.0519	101718.3328	48428.3650	-2081.2755
44	49800.0018	26141.212	-1435.8315	101035.8352	61516.0860	11716.0842
45	49317.8283	26147.602	-1930.5304	100566.1870	90488.7220	41170.8937
46	48990.2090	26150.552	-2263.9313	100244.3492	77793.7552	28803.5462
47	48767.6036	26151.914	-2489.2056	100024.4128	112326.4710	63558.8674
48	48616.3514	26152.542	-2641.6899	99874.3927	90474.6008	41858.2494



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

Outlier Details				
Obs	Type	Estimate	Chi-Square	Approx Prob>ChiSq
45	Shift	40283.1	6.56	0.0104

Obs	rmse	mae	mape
1	24938.03	20323.73	66.2410