

Number of Variables : 49
Number of Cases : 427

STAT: A Student Version of SYSTAT Rectangular file \\kc.umkc.edu\kc-users\home\s\saa9vd\Desktop\Santa Fe data.syz, dated Mon Nov 03 13:09:57 2014, contains variables:

1	X_S1	X_S2	X_S3	X_S4	X1
2	X3	X4	X5	X6	X7
3	X9	X10	X11	X12	X13
4	X15	X16	X17	X18	X19
5	X21	X22	X23	X24	X25
6	X27	X28	X29	X30	X31
7	X33	X34	X35	X36	X37
8	X39	X40	X41	X42	X43
LTER_					

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LTER_					

OLS Regression

case(s) are deleted due to missing data.

Dependent Variable	X22 – Satisfaction
	415
Multiple R	0.767
Squared Multiple R	0.589
Adjusted Squared Multiple R	0.577
Standard Error of Estimate	0.732

Regression Coefficients $B = (X'X)^{-1}X'Y$

Effect	Coefficient	Standard Error	Std. Coefficient	Tolerance	t	p-value
CONSTANT	-0.756	0.313	0.000		-2.419	0.016
11 – Try New Brands	0.030	0.081	0.047	0.063	0.367	0.714
12 – Friendly Employees	0.267	0.072	0.288	0.168	3.694	0.000
13 – Fun Place to Eat	0.275	0.061	0.220	0.434	4.531	0.000
14 – Large Size Portions	0.148	0.105	0.174	0.067	1.413	0.158
15 – Fresh Food	0.445	0.055	0.471	0.300	8.078	0.000
16 – Reasonable Prices	-0.014	0.111	-0.015	0.069	-0.123	0.902
17 – Attractive Interior	-0.069	0.052	-0.062	0.468	-1.330	0.184
18 – Excellent Food Taste	-0.317	0.067	-0.302	0.249	-4.716	0.000
19 – Knowledgeable Employees	-0.023	0.033	-0.031	0.524	-0.700	0.484
20 – Proper Food Temperature	0.398	0.045	0.412	0.475	8.891	0.000

Analysis of Variance

Source	SS	df	Mean Squares	F-ratio	p-value
Regression	309.175	11	28.107	52.441	0.000
Residual	215.996	403	0.536		

WARNING

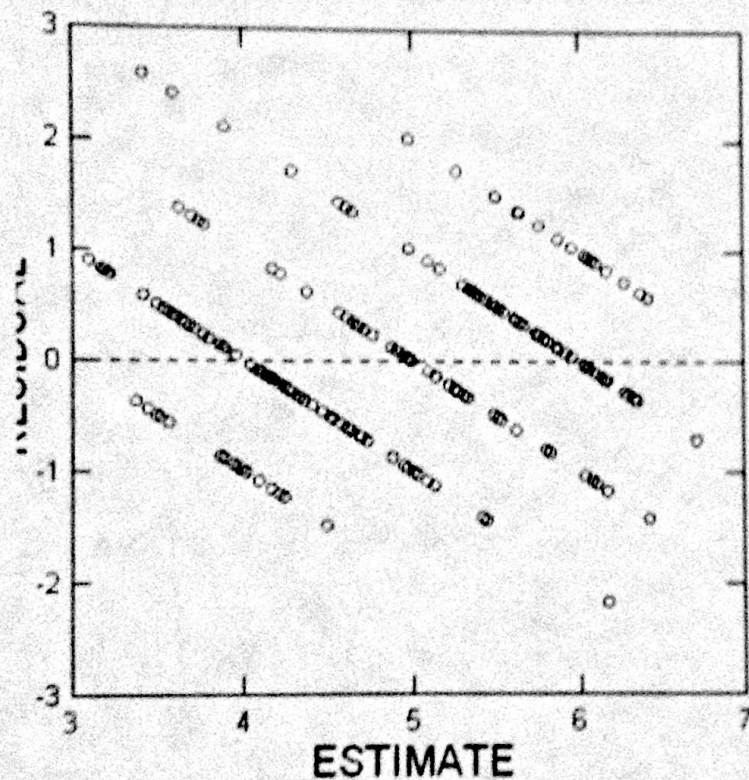
Case 402 has large Leverage (Leverage : 0.161)

Durbin-Watson D Statistic	2.049
First Order Autocorrelation	-0.030

Information Criteria

AIC	932.716
AIC (Corrected)	933.623
Schwarz's BIC	985.083

Plot of Residuals vs Predicted Values



ERROR Undefined identifier.

$$T \text{ Servicequality} = (X1X12+X19+X21)/3$$

OLS Regression

Case(s) are deleted due to missing data.

Dependent Variable	X22 -- Satisfaction
	419
Multiple R	0.657
Squared Multiple R	0.431
Adjusted Squared Multiple R	0.428
Standard Error of Estimate	0.854

Regression Coefficients $B = (X'X)^{-1}X'Y$

Effect	Coefficient	Standard Error	Std. Coefficient	Tolerance	t	p-value
CONSTANT	0.840	0.236	0.000		3.566	0.000
FOODQUALITY	0.560	0.044	0.488	0.929	12.728	0.000
SERVICEQUALITY	0.268	0.031	0.327	0.929	8.523	0.000

Analysis of Variance

Source	SS	df	Mean Squares	F-ratio	p-value
Regression	229.989	2	114.995	157.591	0.000
Residual	303.557	416	0.730		

Durbin-Watson D Statistic	1.851
First Order Autocorrelation	0.071

Model Summary

Adjusted R Square	0.999
Adjusted R Square	0.999
Schwarz's BIC	1,078.178

Fitted Model Plot

