
2/25/2017 2:26:22 PM

Welcome to Minitab, press F1 for help.
Executing from file: C:\Program Files (x86)\Minitab\Minitab 17\English\Macros\S
tartup.mac

This Software was purchased for academic use only.
Commercial use of the Software is prohibited.

Results for: Sheet1

Regression Analysis: Clearance Pr versus Total Capaci, Average clas, Average Prof, ...

* ERROR * Continuous predictors must have more than one distinct value.

Regression Analysis: Clearance Pr versus Total Capaci, Average clas, Average Prof, ...

The following terms cannot be estimated and were removed:
Capacity for the section, Block Week, Marketing

Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Regression	32	111989593	3499675	6.14	0.000
Total Capacity	1	420743	420743	0.74	0.393
Average class rating	1	221295	221295	0.39	0.535
Average Professor rating	1	258884	258884	0.45	0.503
Average Workload rating	1	12755	12755	0.02	0.882
Last years bidding price	1	11020414	11020414	19.34	0.000
Last years capacity	1	8838	8838	0.02	0.901
Capacity for all sections of th	1	504738	504738	0.89	0.350
Number of sections	1	294861	294861	0.52	0.475
Travel component	1	299837	299837	0.53	0.471
Day - M	1	27888	27888	0.05	0.826
Day - T	1	56549	56549	0.10	0.754
Day - W	1	1027	1027	0.00	0.966
Day - R	1	299317	299317	0.53	0.471
Day - F	1	3476382	3476382	6.10	0.016
Day - Sa/Su	1	29843	29843	0.05	0.820
Day - Block	1	55101	55101	0.10	0.757
Full Term	1	1194820	1194820	2.10	0.153
A Term	1	951	951	0.00	0.968
B Term	1	8565	8565	0.02	0.903
9:00 AM	1	2962235	2962235	5.20	0.026
10am to 12.30pm	1	3659942	3659942	6.42	0.014
1pm to 4:30pm	1	3401315	3401315	5.97	0.017
5pm or later	1	2205229	2205229	3.87	0.054
Accounting	1	147876	147876	0.26	0.612
Business	1	862571	862571	1.51	0.223
Decision, Risk and Operations	1	138664	138664	0.24	0.624
Economics	1	11880	11880	0.02	0.886
Finance	1	152093	152093	0.27	0.607
Management	1	701116	701116	1.23	0.272
1.5 credits	1	1295737	1295737	2.27	0.137
3 credits	1	65607	65607	0.12	0.736

Max Bid 2015	1	106107	106107	0.19	0.668
Error	62	35327170	569793		
Lack-of-Fit	61	35327166	579134	128696.41	0.002
Pure Error	1	5	5		
Total	94	147316764			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
754.846	76.02%	63.64%	*

Coefficients

Term	Coef	SE Coef	T-Value	P-Value	VIF
Constant	-2147	1497	-1.43	0.156	
Total Capacity	9.4	10.9	0.86	0.393	4.98
Average class rating	90	145	0.62	0.535	4.53
Average Professor rating	55.4	82.2	0.67	0.503	2.44
Average Workload rating	14.8	98.7	0.15	0.882	3.62
Last years bidding price	0.3617	0.0822	4.40	0.000	3.49
Last years capacity	0.57	4.56	0.12	0.901	26.29
Capacity for all sections of th	-6.03	6.41	-0.94	0.350	56.65
Number of sections	204	284	0.72	0.475	41.12
Travel component	-667	919	-0.73	0.471	8.33
Day - M	86	387	0.22	0.826	5.86
Day - T	103	328	0.32	0.754	2.98
Day - W	15	354	0.04	0.966	4.61
Day - R	-282	389	-0.72	0.471	4.19
Day - F	-2550	1032	-2.47	0.016	3.66
Day - Sa/Su	151	662	0.23	0.820	2.95
Day - Block	391	1256	0.31	0.757	22.56
Full Term	-1755	1212	-1.45	0.153	60.11
A Term	62	1515	0.04	0.968	63.64
B Term	192	1562	0.12	0.903	67.62
9:00 AM	2096	919	2.28	0.026	27.32
10am to 12.30pm	2265	894	2.53	0.014	17.70
1pm to 4:30pm	2186	895	2.44	0.017	32.04
5pm or later	1959	996	1.97	0.054	15.57
Accounting	-432	848	-0.51	0.612	2.47
Business	633	514	1.23	0.223	3.01
Decision, Risk and Operations	-196	398	-0.49	0.624	2.48
Economics	-92	638	-0.14	0.886	2.07
Finance	156	301	0.52	0.607	3.43
Management	383	345	1.11	0.272	3.64
1.5 credits	-1692	1122	-1.51	0.137	42.71
3 credits	297	876	0.34	0.736	26.59
Max Bid 2015	0.0282	0.0655	0.43	0.668	4.23

Regression Equation

Clearance Price = -2147 + 9.4 Total Capacity + 90 Average class rating
 + 55.4 Average Professor rating + 14.8 Average Workload rating
 + 0.3617 Last years bidding price + 0.57 Last years capacity
 - 6.03 Capacity for all sections of th + 204 Number of sections
 - 667 Travel component + 86 Day - M + 103 Day - T + 15 Day - W
 - 282 Day - R - 2550 Day - F + 151 Day - Sa/Su + 391 Day - Block
 - 1755 Full Term + 62 A Term + 192 B Term + 2096 9:00 AM
 + 2265 10am to 12.30pm + 2186 1pm to 4:30pm + 1959 5pm or later

[illegible]

[illegible]

c B e c n						s r d n	n o		u		o o
o u r o F a							g s s m D D D D - l		1		r
u s a n i g						r r r	e p a a a a		l A B 2 4		
n i t o n e						a a a p c o o y y y y S			.	:	l
t n i m a m						t t t r t f n			a T T T 3 3 a		
i e o i n e						i i i i i	e - - - - / e e e e		0 0 t		
n s n c c n	R-Sq		R-Sq	Mallows		n n n c o t n			S r r r r p p e		
Vars R-Sq	(adj)	(pred)		Cp	S	g g g e n h t M T W R u m m m m m r					
g s s s e t											
1 58.0	57.5	44.2	7.0	815.99		X					
1 17.8	16.9	7.5	100.7	1140.9	X						
2 61.7	60.9	46.6	0.3	782.92		X		X			
2 61.3	60.4	46.3	1.3	787.47		X					
X											
3 64.9	63.7	50.5	-5.1	754.02	X		X				
X											
3 64.1	62.9	47.4	-3.3	762.41		X	X				
X											
4 66.2	64.7	51.2	-6.1	743.93	X		X				
X	X										
4 65.9	64.4	50.1	-5.4	747.38	X		X			X	
X											
5 66.8	64.9	50.8	-5.6	741.21	X		X			X	
X	X										
5 66.7	64.8	48.1	-5.3	742.55	X X		X				
X	X										
6 67.1	64.8	47.6	-4.2	742.21	X X		X			X	
X	X										
6 67.0	64.8	49.3	-4.1	743.05	X		X X			X	
X	X										
7 67.3	64.7	46.6	-2.8	744.00	X X		X		X	X	
X	X										
7 67.3	64.6	46.2	-2.7	744.40	X X		X		X		
X	X										
8 67.6	64.6	45.1	-1.4	745.34	X X		X X		X		
X	X										
8 67.6	64.5	46.1	-1.3	745.43		X	X		X X		X X
X	X										
9 67.9	64.5	48.4	-0.2	745.44	X		X		X X		X X X
X	X										
9 67.9	64.5	46.0	-0.2	745.55	X		X X		X		X X X
X	X										
10 68.4	64.6	44.9	0.8	744.87	X X		X		X X		X X X
X	X										
10 68.3	64.5	46.2	1.0	745.86	X		X X		X		X X X
X X	X										
11 68.6	64.4	45.6	2.3	747.01	X		X X		X X		X X X
X X	X										
11 68.6	64.4	43.9	2.3	747.05	X X		X		X X		X X X X
X	X										
12 68.8	64.2	45.0	3.8	748.83	X		X X		X X		X X X X
X X	X										
12 68.8	64.2	41.4	3.9	749.17	X X		X X		X X		X X X
X X	X										
13 69.0	64.1	40.8	5.3	750.59	X X		X X		X X		X X X X
X X	X										
13 69.0	64.0	40.0	5.3	751.00	X X		X X		X X		X X X X
X X	X										
14 69.2	63.8	39.3	6.8	752.77	X X		X X		X X		X X X X X

[illegible]

Best Subsets Regression: Clearance Pr versus Average clas, Average Prof, ...

Response is Clearance Price

	C
	a
	p
D	a
e	c
c	i
i	t
s	A L C y
i	v A a a
o	e v s p f
n	r e t a o

```

'
R
i
s
k
a
n
d
A O      M
c p E   a
c e c   n
o r o F a
u a n i g
n t o n e
t i m a m
i o i n e
n n c c n
Vars R-Sq
g s s e t
1 58.0 57.5 44.2 5.9 815.99
1 17.8 16.9 7.5 98.5 1140.9 X
2 61.7 60.9 46.6 -0.7 782.92 X X
2 60.3 59.4 45.7 2.6 797.48 X X
3 63.3 62.1 44.7 -2.3 771.01 X X X
3 63.2 62.0 47.3 -2.2 771.41 X X X
4 64.6 63.0 47.6 -3.3 761.57 X X X
X
4 64.3 62.8 45.2 -2.8 764.00 X X X X
5 65.8 63.8 45.6 -4.0 752.84 X X X X
X
5 65.3 63.4 47.7 -3.0 757.87 X X X X
X
6 66.1 63.8 44.7 -2.8 753.31 X X X X
X
6 66.0 63.7 44.7 -2.7 754.10 X X X X X
X
7 66.3 63.6 44.1 -1.4 754.98 X X X X X
X
7 66.3 63.6 43.0 -1.4 755.02 X X X X X
X
8 66.7 63.6 42.7 -0.2 755.30 X X X X X
X
8 66.6 63.5 43.8 0.0 756.47 X X X X X
X
9 67.1 63.7 44.4 0.8 754.76 X X X X X
X
9 67.1 63.6 42.9 1.0 755.55 X X X X X

```


[illegible]

5	59.8	57.5	41.7	-2.2	620.54	X X X			
X		X							
6	61.1	58.4	41.9	-2.9	613.48	X X X		X	
X		X							
6	60.9	58.2	39.7	-2.5	615.11	X X X			X
X		X							
7	62.0	58.9	40.0	-2.6	610.23	X X X		X	X
X		X							
7	61.9	58.8	42.2	-2.4	610.77	X X X		X	X
X		X							
8	62.7	59.1	40.0	-1.9	608.41	X X X	X	X	X
X		X							
8	62.6	59.0	42.9	-1.7	609.26	X X X	X	X	X
X		X							
9	63.3	59.3	40.6	-1.0	607.22	X X X	X X	X	X
X		X							
9	63.1	59.1	42.5	-0.8	608.30	X X X	X X	X	X
X		X							
10	63.7	59.3	40.5	0.1	607.20	X X X	X X	X	X
X X		X							
10	63.7	59.3	40.0	0.1	607.32	X X X	X X X	X	X
X		X							
11	64.1	59.3	40.1	1.3	607.44	X X X X	X X X	X	X
X		X							
11	64.1	59.2	40.5	1.4	608.04	X X X X	X X	X	X
X X		X							
12	64.4	59.1	39.8	2.7	608.58	X X X X	X X X	X	X X
X		X							
12	64.4	59.1	39.9	2.7	608.84	X X X X	X X X	X	X
X X		X							
13	64.7	58.9	39.4	4.2	610.28	X X X X	X X X	X	X X
X X		X							
13	64.7	58.8	39.9	4.2	610.49	X X X X	X X X	X	X X
X X		X							
14	64.9	58.6	39.5	5.8	612.42	X X X X	X X X	X	X X
X X X		X							
14	64.8	58.5	38.7	5.9	613.05	X X X X	X X X	X	X X X
X X		X							
15	65.0	58.2	38.0	7.6	615.38	X X X X	X X X	X	X X X
X X X		X							
15	65.0	58.1	38.0	7.6	615.75	X X X X	X X X X	X	X X
X X X		X							
16	65.0	57.7	36.3	9.5	618.97	X X X X	X X X X	X	X X X
X X X		X							
16	65.0	57.7	35.7	9.5	619.01	X X X X X	X X X	X	X X X
X X X		X							
17	65.1	57.2	33.8	11.4	622.58	X X X X X	X X X X	X	X X X
X X X		X							
17	65.1	57.2	33.5	11.4	622.59	X X X X X X X X X		X	X X X
X X X		X							
18	65.2	56.7	31.4	13.2	626.11	X X X X X	X X X X	X	X X X
X X X		X							
18	65.2	56.7	31.1	13.2	626.21	X X X X X X X X X	X	X	X X X
X X X		X							
19	65.2	56.2	29.4	15.1	630.04	X X X X X X X X X X	X	X	X X X
X X X		X							
19	65.2	56.1	28.3	15.2	630.19	X X X X X	X X X X X X	X	X X X
X X X		X							
20	65.2	55.6	26.1	17.1	634.22	X X X X X X X X X X X X		X	X X X
X X X		X							
20	65.2	55.6	28.4	17.1	634.23	X X X X X X X X X X X	X	X X X X X	
X X X		X							
21	65.3	55.0	25.1	19.1	638.53	X X X X X X X X X X X X		X X X X X	
X X X		X							
21	65.2	55.0	27.9	19.1	638.54	X X X X X X X X X X X	X	X X X X X	
X X X X		X							

