

The GLMSELECT Procedure

Data Set	WORK.TRAIN_FINAL
Dependent Variable	Price_Log
Selection Method	LASSO
Stop at Specified Number of Effects	3
Choose Criterion	SBC
Effect Hierarchy Enforced	None

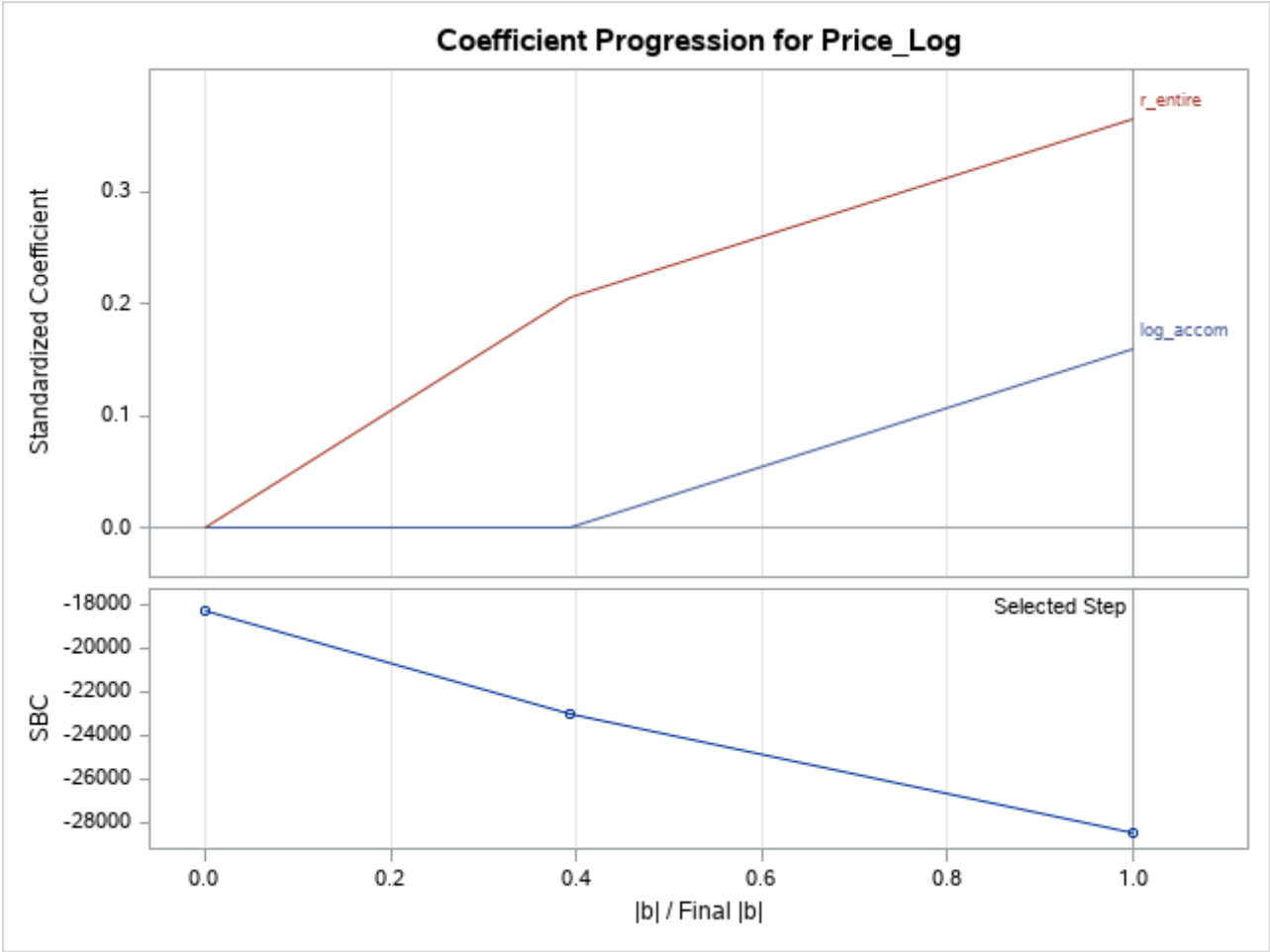
Number of Observations Read	38527
Number of Observations Used	19137

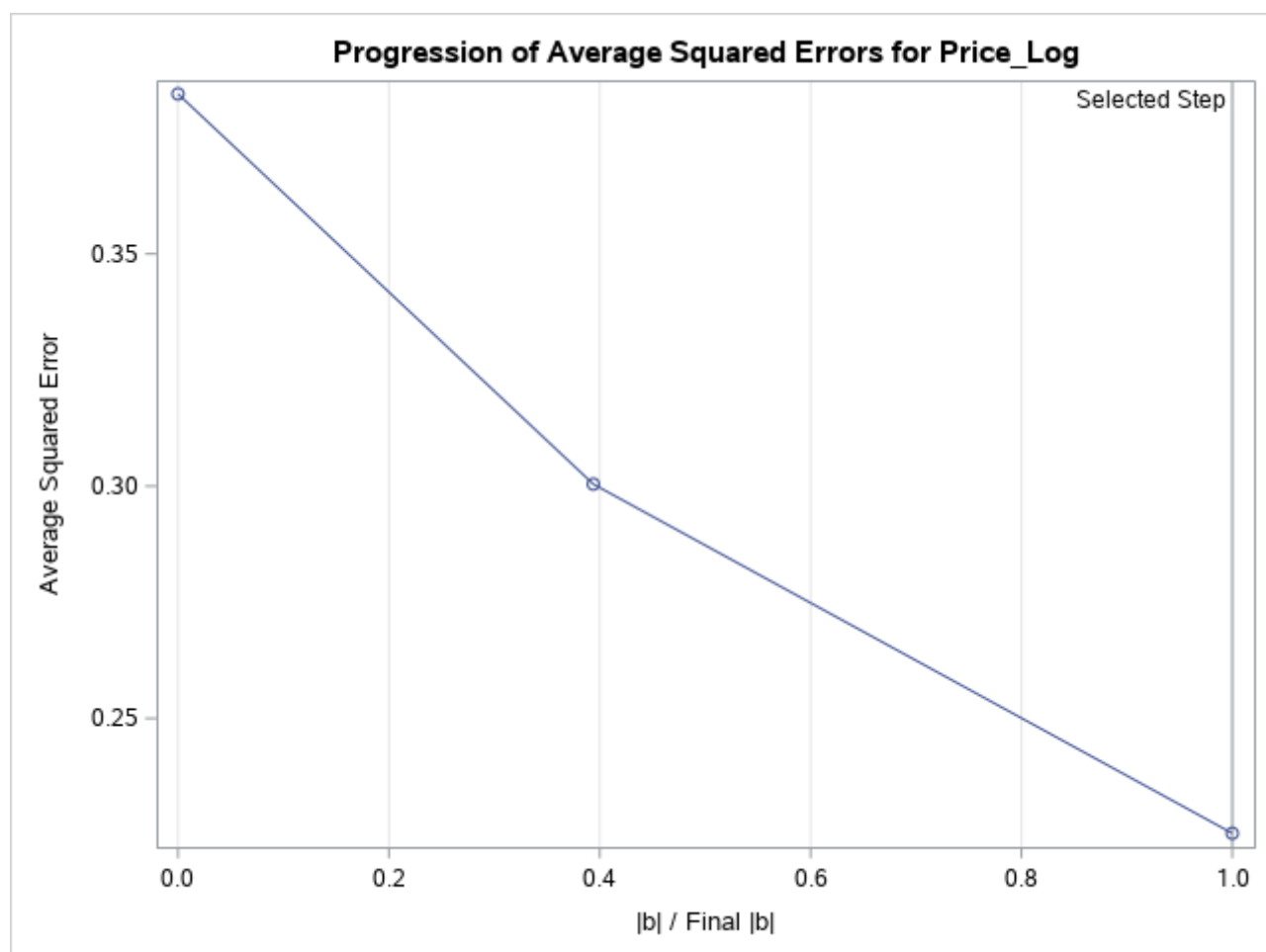
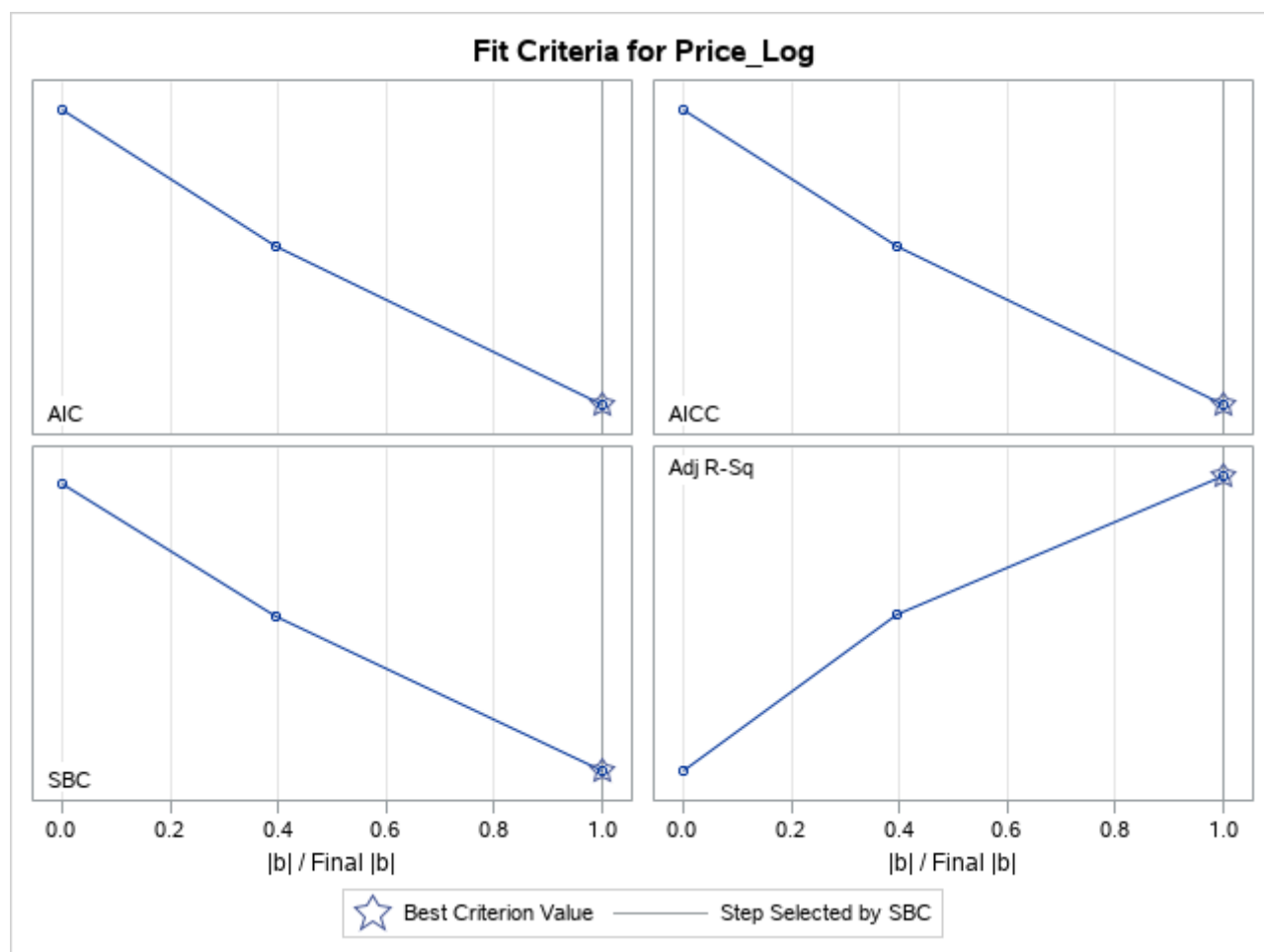
Dimensions	
Number of Effects	43
Number of Parameters	43

The GLMSELECT Procedure

LASSO Selection Summary				
Step	Effect Entered	Effect Removed	Number Effects In	SBC
0	Intercept		1	-18284.282
1	r_entire		2	-22993.005
2	log_accom		3	-28494.815*
* Optimal Value of Criterion				

Selection stopped at the first model containing the specified number of effects (3).





The selected model, based on SBC, is the model at Step 2.

Effects:	Intercept log_accom r_entire
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Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Value
Model	2	3046.46495	1523.23248	6761.29
Error	19134	4310.64406	0.22529	
Corrected Total	19136	7357.10901		

Root MSE	0.47464
Dependent Mean	4.87761
R-Square	0.4141
Adj R-Sq	0.4140
AIC	-9379.39330
AICC	-9379.39121
SBC	-28495

Parameter Estimates		
Parameter	DF	Estimate
Intercept	1	4.575847
log_accom	1	0.144656
r_entire	1	0.473156

Score Information	
Input Data Set	WORK.TEST_FINAL
Output Data Set	WORK.TEST_SCORE
Number of Observations Read	9617
Number of Observations Scored	0
Number of Residuals Computed	0
Residual Sum of Squares	.

The GLMSELECT Procedure

Data Set	WORK.TRAIN_FINAL
Dependent Variable	Price_Log
Selection Method	LASSO
Stop at Specified Number of Effects	4
Choose Criterion	SBC
Effect Hierarchy Enforced	None

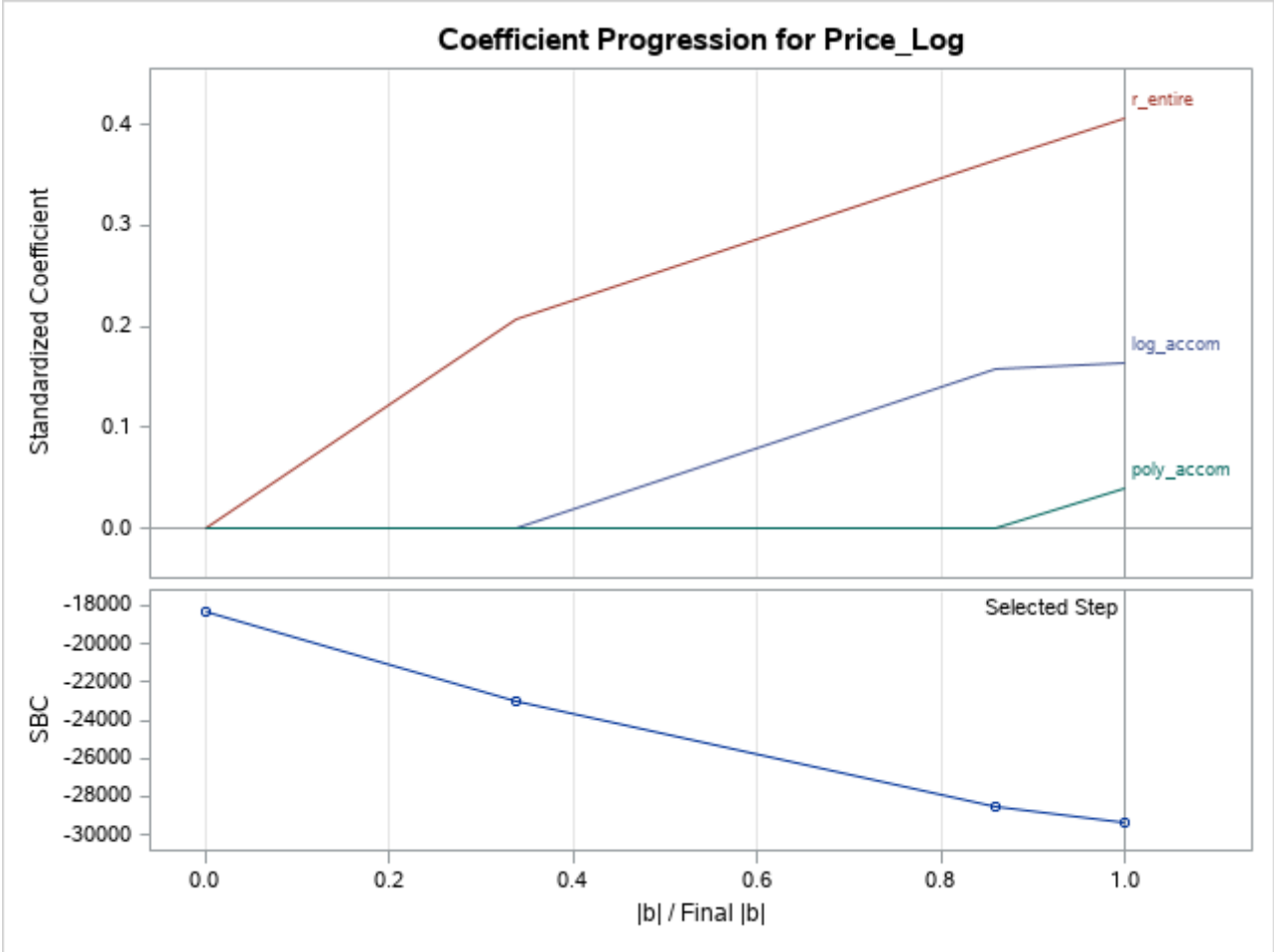
Number of Observations Read	38527
Number of Observations Used	19137

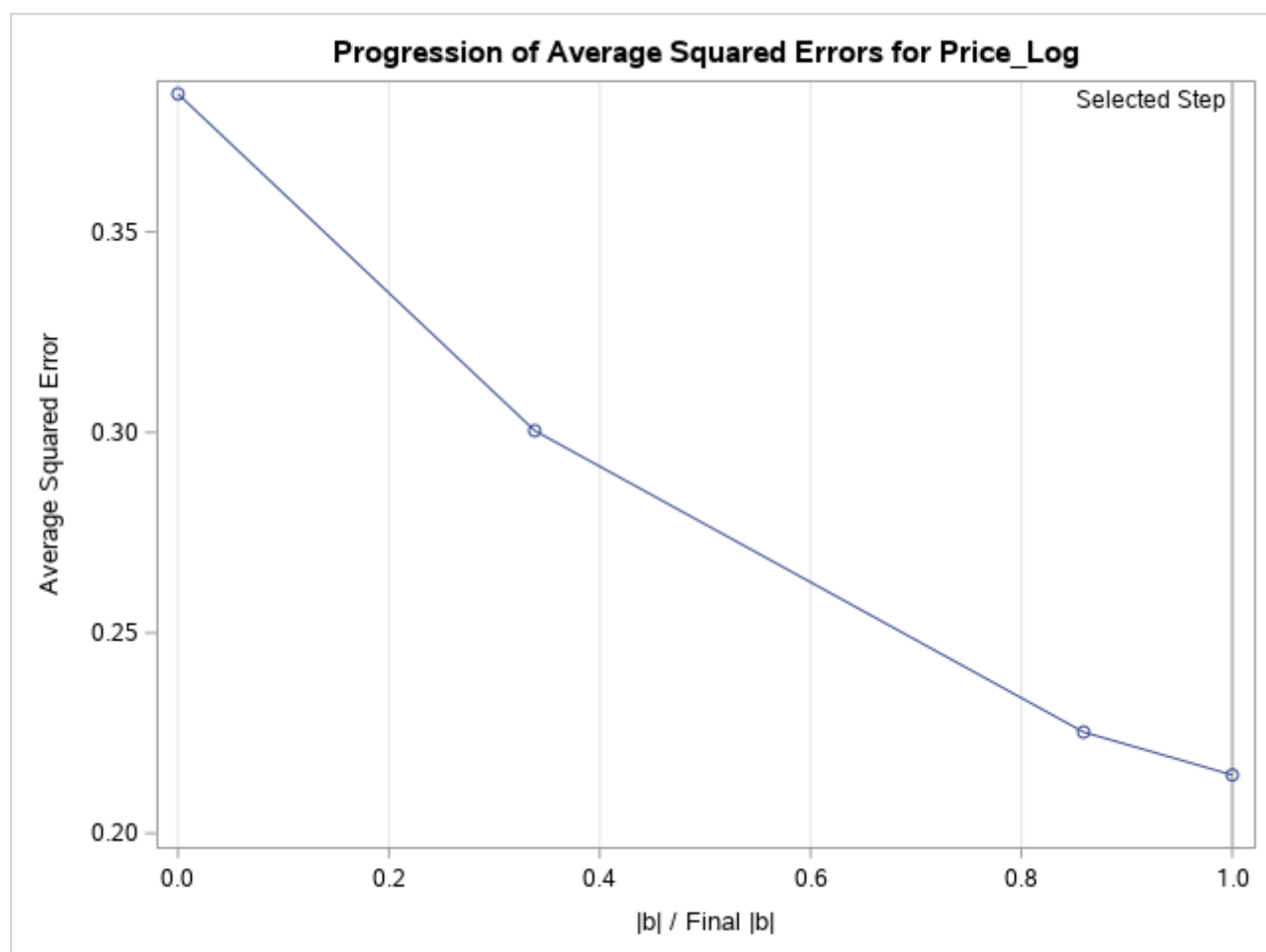
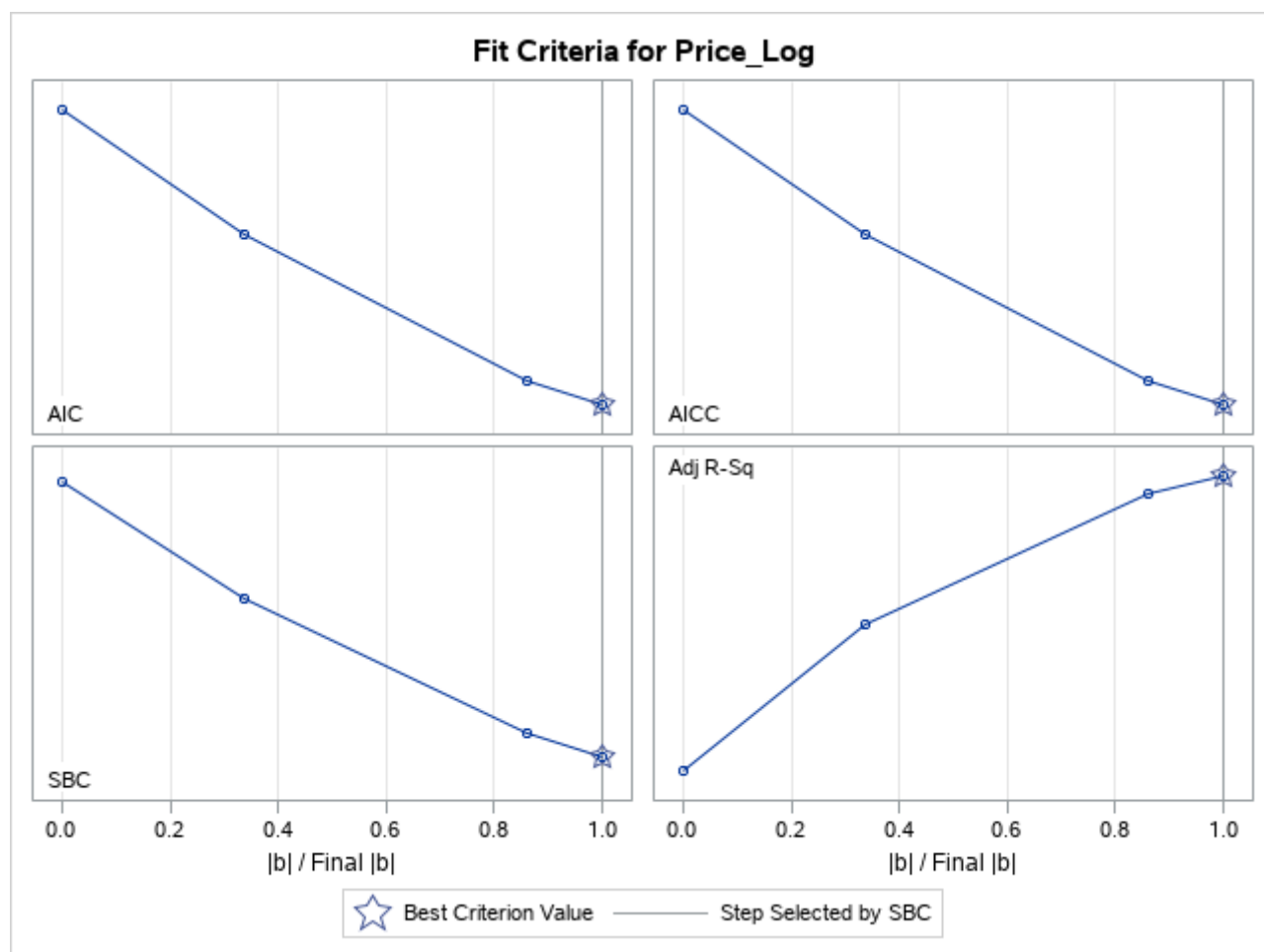
Dimensions	
Number of Effects	43
Number of Parameters	43

The GLMSELECT Procedure

LASSO Selection Summary				
Step	Effect Entered	Effect Removed	Number Effects In	SBC
0	Intercept		1	-18284.282
1	r_entire		2	-22993.005
2	log_accom		3	-28494.815
3	poly_accom		4	-29416.248*
* Optimal Value of Criterion				

Selection stopped at the first model containing the specified number of effects (4).





The selected model, based on SBC, is the model at Step 3.

Effects:	Intercept log_accom r_entire poly_accom
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Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Value
Model	3	3251.21771	1083.73924	5050.11
Error	19133	4105.89130	0.21460	
Corrected Total	19136	7357.10901		

Root MSE	0.46325
Dependent Mean	4.87761
R-Square	0.4419
Adj R-Sq	0.4418
AIC	-10309
AICC	-10309
SBC	-29416

Parameter Estimates		
Parameter	DF	Estimate
Intercept	1	4.537954
log_accom	1	0.149530
r_entire	1	0.526708
poly_accom	1	0.021951

Score Information	
Input Data Set	WORK.TEST_FINAL
Output Data Set	WORK.TEST_SCORE
Number of Observations Read	9617
Number of Observations Scored	0
Number of Residuals Computed	0
Residual Sum of Squares	.

The GLMSELECT Procedure

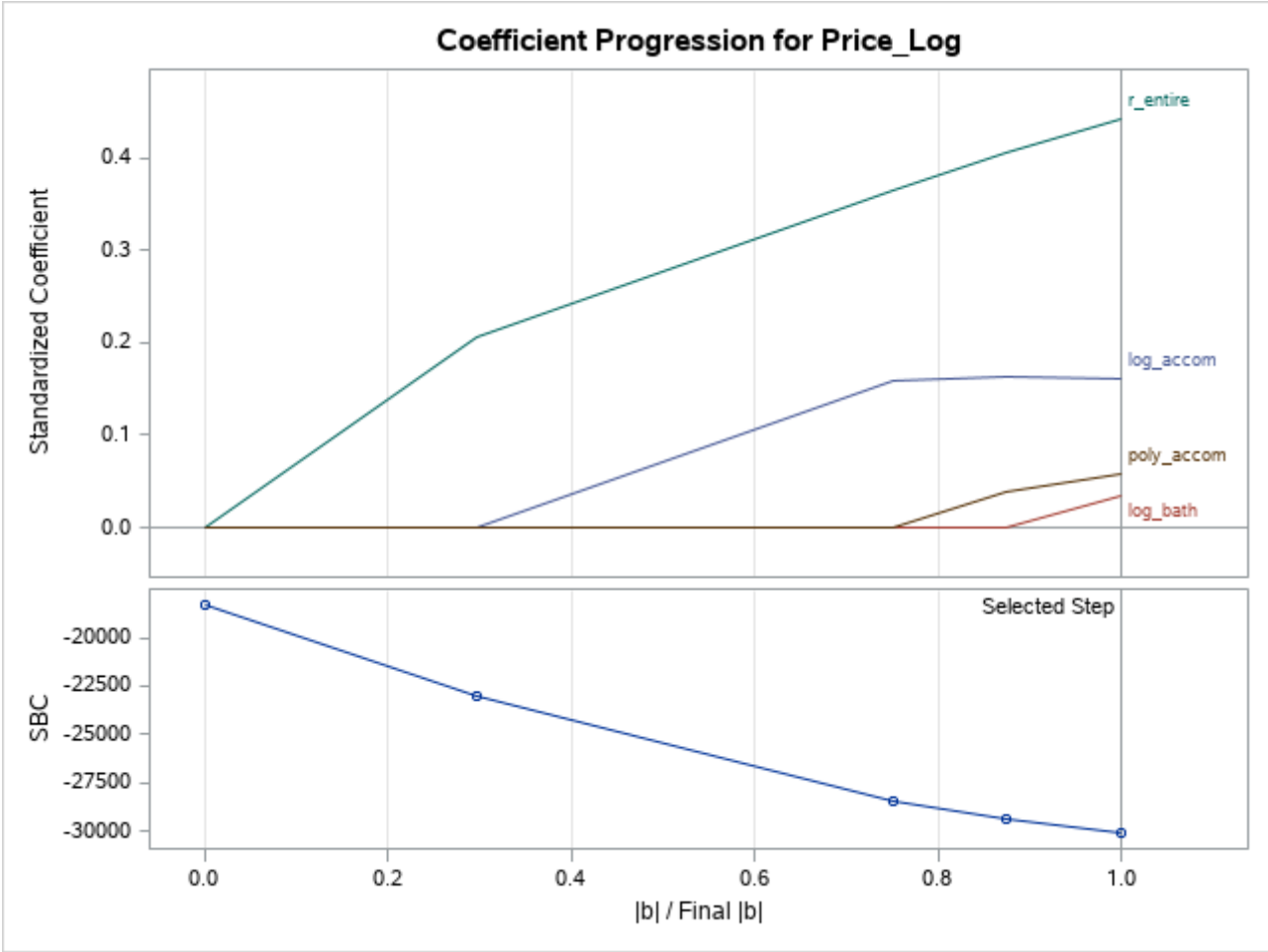
Data Set	WORK.TRAIN_FINAL
Dependent Variable	Price_Log
Selection Method	LASSO
Stop at Specified Number of Effects	5
Choose Criterion	SBC
Effect Hierarchy Enforced	None

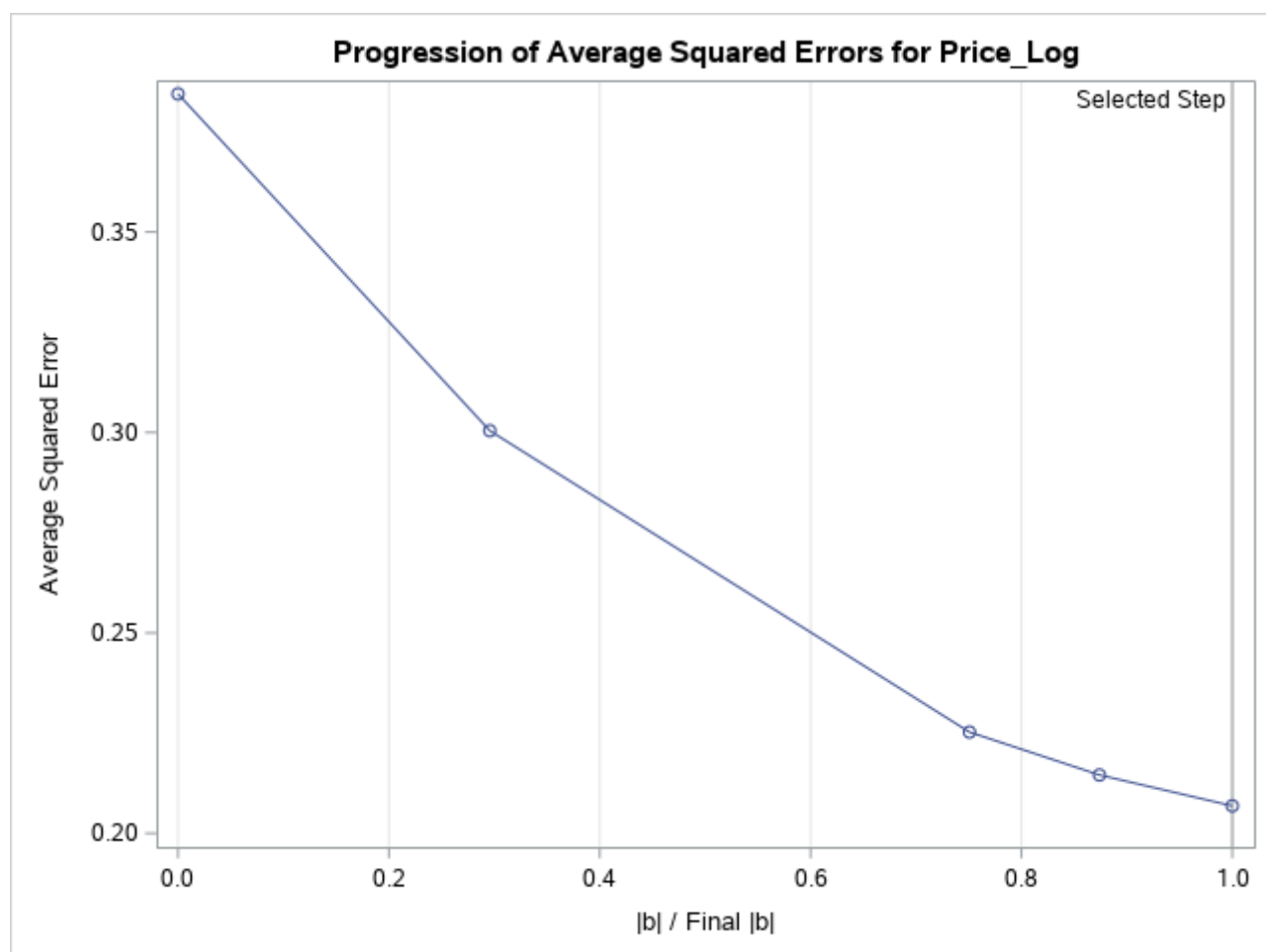
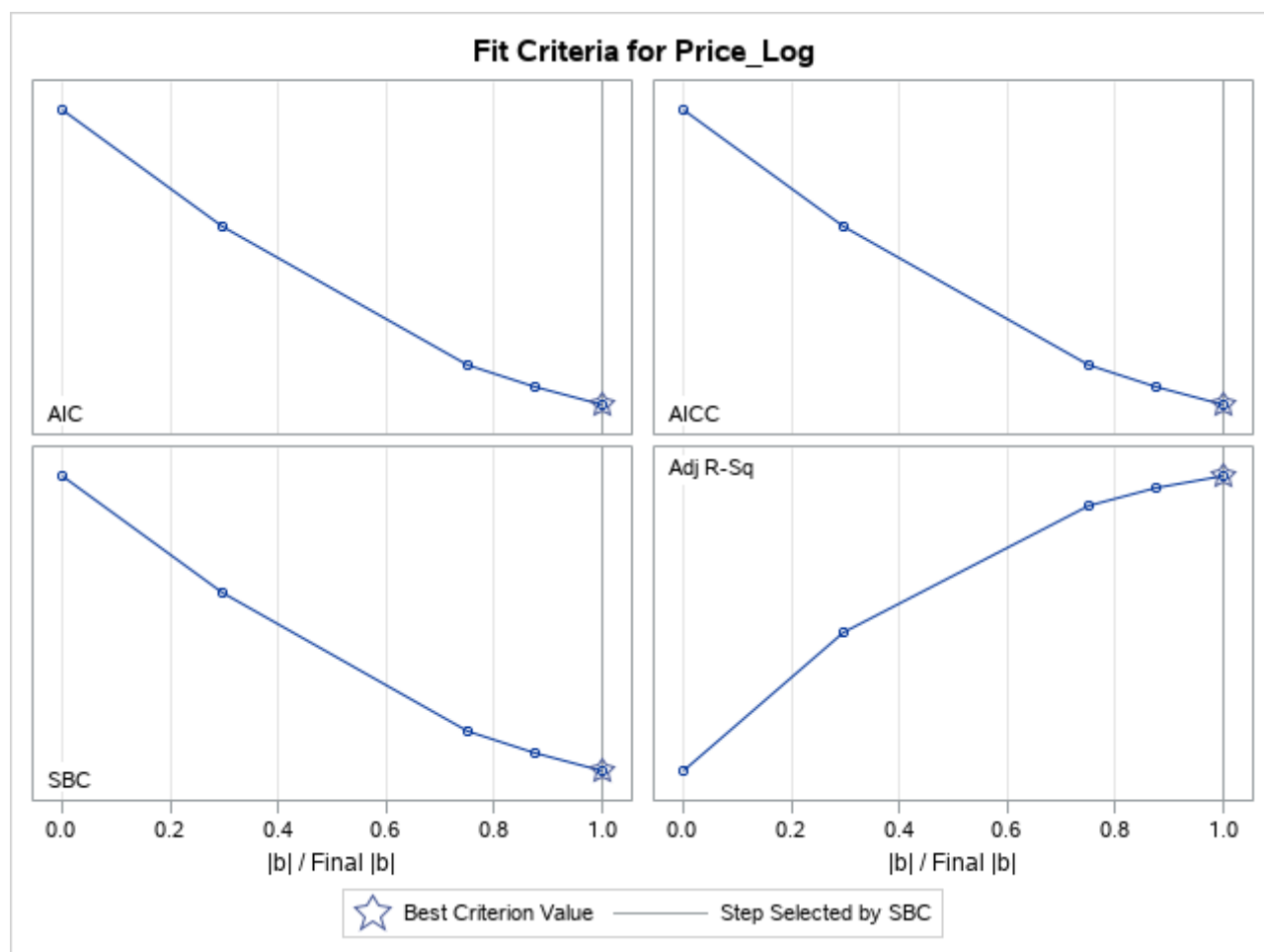
Number of Observations Read	38527
Number of Observations Used	19137

Dimensions	
Number of Effects	43
Number of Parameters	43

LASSO Selection Summary				
Step	Effect Entered	Effect Removed	Number Effects In	SBC
0	Intercept		1	-18284.282
1	r_entire		2	-22993.005
2	log_accom		3	-28494.815
3	poly_accom		4	-29416.248
4	log_bath		5	-30105.923*
* Optimal Value of Criterion				

Selection stopped at the first model containing the specified number of effects (5).





The selected model, based on SBC, is the model at Step 4.

Effects:	Intercept log_accom log_bath r_entire poly_accom
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Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Value
Model	4	3398.59463	849.64866	4106.46
Error	19132	3958.51438	0.20691	
Corrected Total	19136	7357.10901		

Root MSE	0.45487
Dependent Mean	4.87761
R-Square	0.4619
Adj R-Sq	0.4618
AIC	-11006
AICC	-11006
SBC	-30106

Parameter Estimates		
Parameter	DF	Estimate
Intercept	1	4.513781
log_accom	1	0.147572
log_bath	1	0.036476
r_entire	1	0.573572
poly_accom	1	0.032723

Score Information	
Input Data Set	WORK.TEST_FINAL
Output Data Set	WORK.TEST_SCORE
Number of Observations Read	9617
Number of Observations Scored	0
Number of Residuals Computed	0
Residual Sum of Squares	.

The GLMSELECT Procedure

Data Set	WORK.TRAIN_FINAL
Dependent Variable	Price_Log
Selection Method	LASSO
Stop Criterion	None
Choose Criterion	SBC
Effect Hierarchy Enforced	None

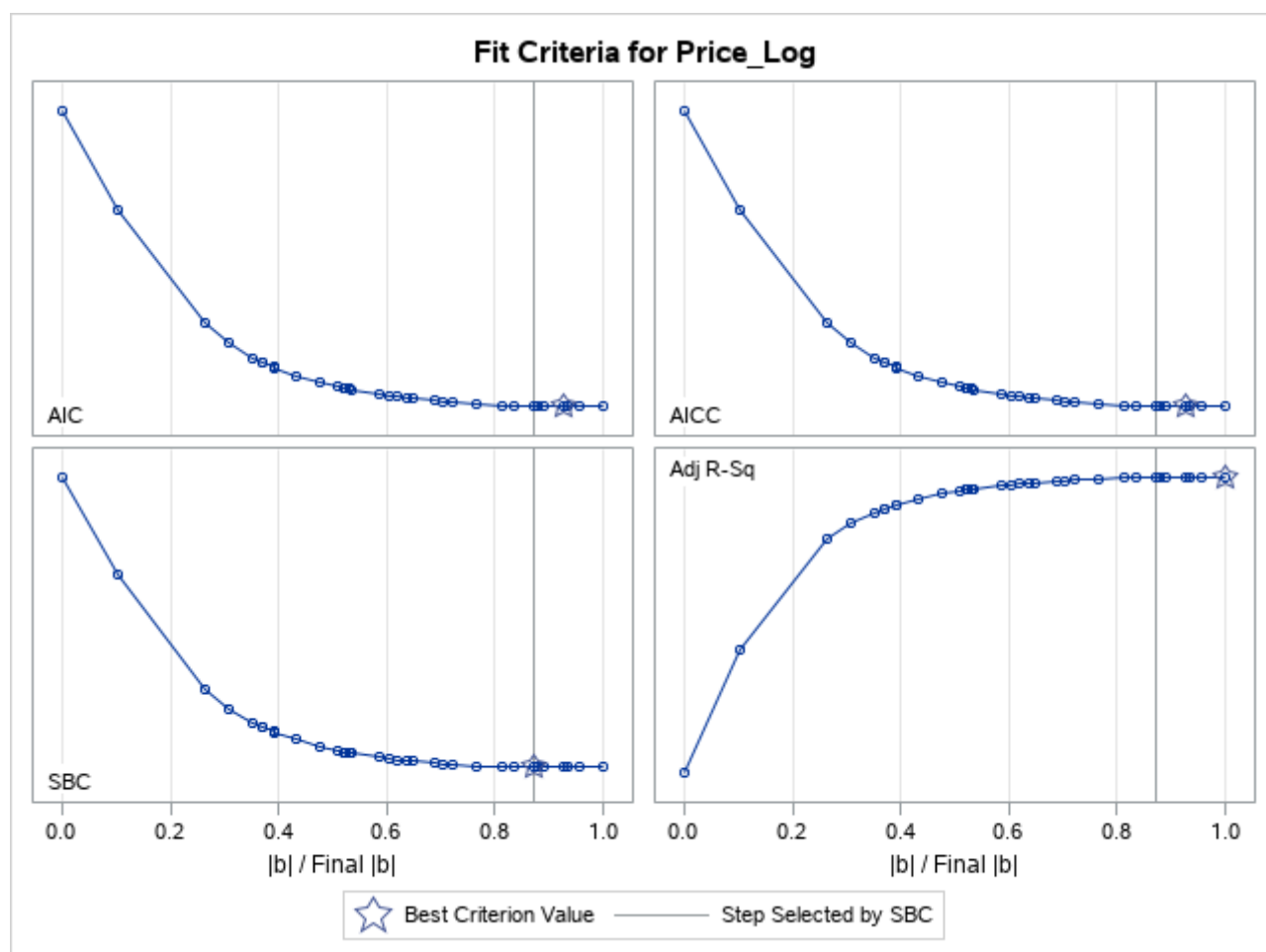
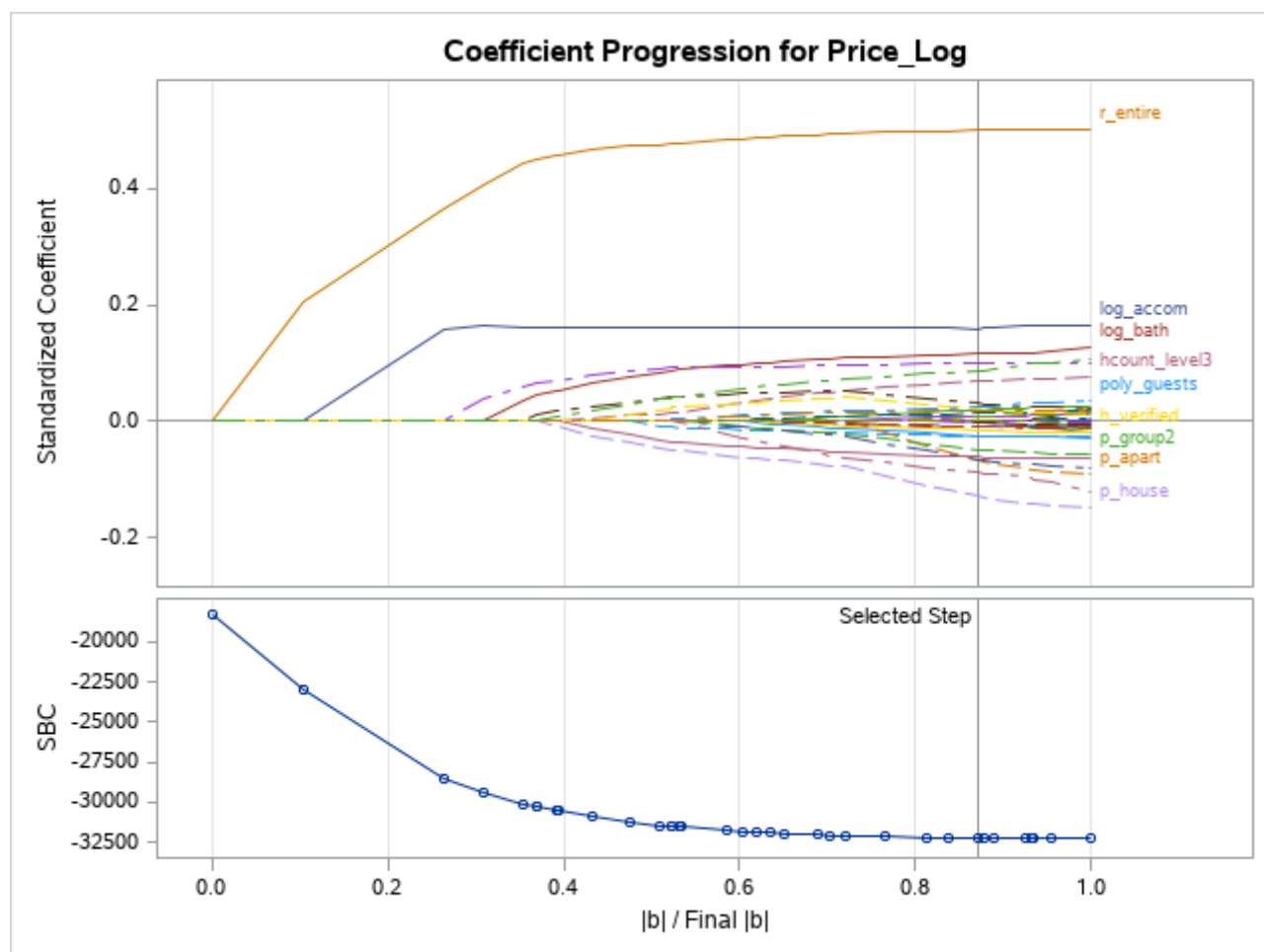
Number of Observations Read	38527
Number of Observations Used	19137

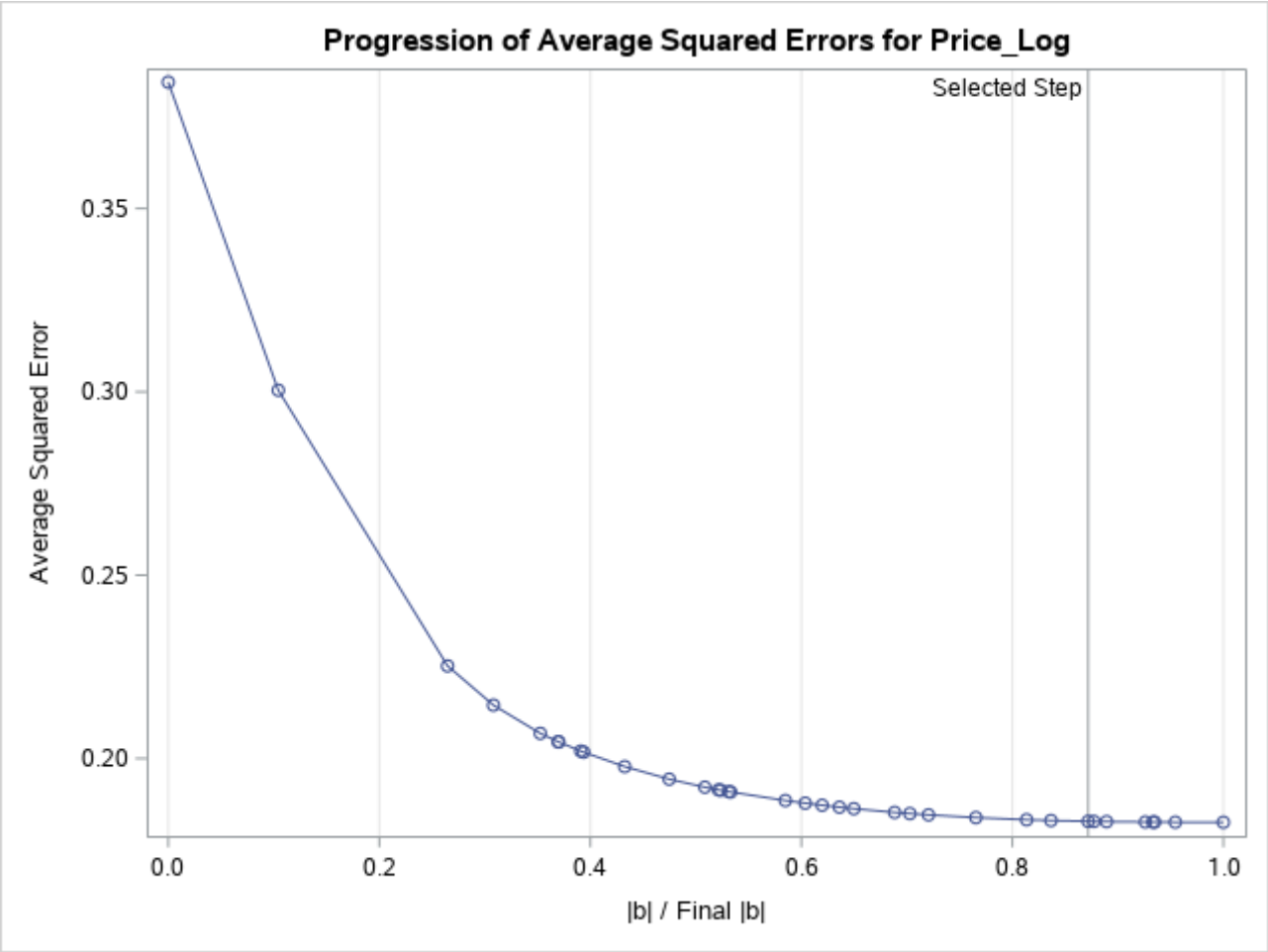
Dimensions	
Number of Effects	43
Number of Parameters	43

The GLMSELECT Procedure

LASSO Selection Summary				
Step	Effect Entered	Effect Removed	Number Effects In	SBC
0	Intercept		1	-18284.282
1	r_entire		2	-22993.005
2	log_accom		3	-28494.815
3	poly_accom		4	-29416.248
4	log_bath		5	-30105.923
5	p_group1		6	-30306.602
6	poly_avail		7	-30304.380
7	p_house		8	-30528.795
8	hcount_level3		9	-30546.804
9	n_bronx		10	-30913.406
10	p_loft		11	-31238.696
11	hcount_level2		12	-31445.517
12	poly_guests		13	-31507.131
13	poly_max		14	-31508.194
14	poly_min		15	-31537.415
15	p_townhouse		16	-31536.427
16	p_group2		17	-31761.464
17	b_real		18	-31824.917
18	log_bedsper		19	-31872.706
19	h_verified		20	-31917.436
20	b_futon		21	-31949.831
21	h_super		22	-32044.155
22	log_max		23	-32067.523
23	r_shared		24	-32094.183
24	p_apart		25	-32161.444
25	require_phone		26	-32212.703
26	h_profile		27	-32224.502
27	instant		28	-32238.442*
28	log_guest		29	-32231.327
29	log_avil30		30	-32226.850
30	b_air		31	-32228.496
31	log_min		32	-32220.056
32	require_pic		33	-32210.503
33	poly_bath		34	-32203.648
34	b_couch		35	-32196.654
* Optimal Value of Criterion				

Selection stopped because the change of the maximum absolute correction is tiny.





The GLMSELECT Procedure
Selected Model

The selected model, based on SBC, is the model at Step 27.

Effects:	Intercept log_accom log_bath log_max log_bedsper n_bronx r_entire h_super h_profile h_verified b_futon b_real instant require_phone hcount_level2 hcount_level3 p_apart p_group2 p_house p_loft p_townhouse r_shared p_group1 poly_accom poly_guests poly_min poly_max poly_avail
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Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Value
Model	27	3857.73222	142.87897	780.22
Error	19109	3499.37679	0.18313	
Corrected Total	19136	7357.10901		

Root MSE	0.42793
Dependent Mean	4.87761
R-Square	0.5244
Adj R-Sq	0.5237
AIC	-13320
AICC	-13319
SBC	-32238

Parameter Estimates		
Parameter	DF	Estimate
Intercept	1	4.585200
log_accom	1	0.145127
log_bath	1	0.121667
log_max	1	0.004642

Parameter Estimates		
Parameter	DF	Estimate
log_bedsper	1	-0.029311
n_bronx	1	-0.326507
r_entire	1	0.648439
h_super	1	0.032650
h_profile	1	-0.058495
h_verified	1	-0.020091
b_futon	1	-0.087589
b_real	1	0.070705
instant	1	-0.003420
require_phone	1	0.029076
hcount_level2	1	-0.034264
hcount_level3	1	0.138494
p_apart	1	-0.105948
p_group2	1	-0.328477
p_house	1	-0.331994
p_loft	1	0.071987
p_townhouse	1	-0.239362
r_shared	1	-0.076879
p_group1	1	0.115389
poly_accom	1	0.056143
poly_guests	1	0.013898
poly_min	1	-0.047705
poly_max	1	0.015991
poly_avail	1	0.052545

Score Information	
Input Data Set	WORK.TEST_FINAL
Output Data Set	WORK.TEST_SCORE
Number of Observations Read	9617
Number of Observations Scored	0
Number of Residuals Computed	0
Residual Sum of Squares	.