

The CONTENTS Procedure

Data Set Name	WORK.TRAIN	Observations	1460
Member Type	DATA	Variables	81
Engine	V9	Indexes	0
Created	04/12/2019 18:30:19	Observation Length	472
Last Modified	04/12/2019 18:30:19	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Engine/Host Dependent Information	
Data Set Page Size	131072
Number of Data Set Pages	6
First Data Page	1
Max Obs per Page	277
Obs in First Data Page	250
Number of Data Set Repairs	0
Filename	/saswork/SAS_workAD6400018965_odaws02-prod-us/SAS_work2F1800018965_odaws02-prod-us/train.sas7bdat
Release Created	9.0401M5
Host Created	Linux
Inode Number	631784
Access Permission	rw-r--r--
Owner Name	eric.balke
File Size	896KB
File Size (bytes)	917504

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
44	1stFlrSF	Num	8	BEST12.	BEST32.
45	2ndFlrSF	Num	8	BEST12.	BEST32.
70	3SsnPorch	Num	8	BEST12.	BEST32.
7	Alley	Char	2	\$2.	\$2.
52	BedroomAbvGr	Num	8	BEST12.	BEST32.
16	BldgType	Char	6	\$6.	\$6.
32	BsmtCond	Char	2	\$2.	\$2.
33	BsmtExposure	Char	2	\$2.	\$2.
35	BsmtFinSF1	Num	8	BEST12.	BEST32.

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Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
37	BsmtFinSF2	Num	8	BEST12.	BEST32.
34	BsmtFinType1	Char	3	\$3.	\$3.
36	BsmtFinType2	Char	3	\$3.	\$3.
48	BsmtFullBath	Num	8	BEST12.	BEST32.
49	BsmtHalfBath	Num	8	BEST12.	BEST32.
31	BsmtQual	Char	2	\$2.	\$2.
38	BsmtUnfSF	Num	8	BEST12.	BEST32.
42	CentralAir	Char	1	\$1.	\$1.
14	Condition1	Char	6	\$6.	\$6.
15	Condition2	Char	6	\$6.	\$6.
43	Electrical	Char	5	\$5.	\$5.
69	EnclosedPorch	Num	8	BEST12.	BEST32.
29	ExterCond	Char	2	\$2.	\$2.
28	ExterQual	Char	2	\$2.	\$2.
24	Exterior1st	Char	7	\$7.	\$7.
25	Exterior2nd	Char	7	\$7.	\$7.
74	Fence	Char	5	\$5.	\$5.
58	FireplaceQu	Char	2	\$2.	\$2.
57	Fireplaces	Num	8	BEST12.	BEST32.
30	Foundation	Char	6	\$6.	\$6.
50	FullBath	Num	8	BEST12.	BEST32.
56	Functional	Char	4	\$4.	\$4.
63	GarageArea	Num	8	BEST12.	BEST32.
62	GarageCars	Num	8	BEST12.	BEST32.
65	GarageCond	Char	2	\$2.	\$2.
61	GarageFinish	Char	3	\$3.	\$3.
64	GarageQual	Char	2	\$2.	\$2.
59	GarageType	Char	7	\$7.	\$7.
60	GarageYrBlt	Char	4	\$4.	\$4.
47	GrLivArea	Num	8	BEST12.	BEST32.
51	HalfBath	Num	8	BEST12.	BEST32.
40	Heating	Char	4	\$4.	\$4.
41	HeatingQC	Char	2	\$2.	\$2.
17	HouseStyle	Char	6	\$6.	\$6.
1	Id	Num	8	BEST12.	BEST32.
53	KitchenAbvGr	Num	8	BEST12.	BEST32.

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Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
54	KitchenQual	Char	2	\$2.	\$2.
9	LandContour	Char	3	\$3.	\$3.
12	LandSlope	Char	3	\$3.	\$3.
5	LotArea	Num	8	BEST12.	BEST32.
11	LotConfig	Char	7	\$7.	\$7.
4	LotFrontage	Char	2	\$2.	\$2.
8	LotShape	Char	3	\$3.	\$3.
46	LowQualFinSF	Num	8	BEST12.	BEST32.
2	MSSubClass	Num	8	BEST12.	BEST32.
3	MSZoning	Char	2	\$2.	\$2.
27	MasVnrArea	Num	8	BEST12.	BEST32.
26	MasVnrType	Char	7	\$7.	\$7.
75	MiscFeature	Char	4	\$4.	\$4.
76	MiscVal	Num	8	BEST12.	BEST32.
77	MoSold	Num	8	BEST12.	BEST32.
13	Neighborhood	Char	7	\$7.	\$7.
68	OpenPorchSF	Num	8	BEST12.	BEST32.
19	OverallCond	Num	8	BEST12.	BEST32.
18	OverallQual	Num	8	BEST12.	BEST32.
66	PavedDrive	Char	1	\$1.	\$1.
72	PoolArea	Num	8	BEST12.	BEST32.
73	PoolQC	Char	2	\$2.	\$2.
23	RoofMatl	Char	7	\$7.	\$7.
22	RoofStyle	Char	5	\$5.	\$5.
80	SaleCondition	Char	7	\$7.	\$7.
81	SalePrice	Num	8	BEST12.	BEST32.
79	SaleType	Char	3	\$3.	\$3.
71	ScreenPorch	Num	8	BEST12.	BEST32.
6	Street	Char	4	\$4.	\$4.
55	TotRmsAbvGrd	Num	8	BEST12.	BEST32.
39	TotalBsmtSF	Num	8	BEST12.	BEST32.
10	Utilities	Char	6	\$6.	\$6.
67	WoodDeckSF	Num	8	BEST12.	BEST32.
20	YearBuilt	Num	8	BEST12.	BEST32.
21	YearRemodAdd	Num	8	BEST12.	BEST32.
78	YrSold	Num	8	BEST12.	BEST32.

Obs	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig	LandSlope
1	1	60	RL	65	8450	Pave	NA	Reg	Lvl	AllPub	Inside	Gtl
2	2	20	RL	80	9600	Pave	NA	Reg	Lvl	AllPub	FR2	Gtl
3	3	60	RL	68	11250	Pave	NA	IR1	Lvl	AllPub	Inside	Gtl

Obs	Neighborhood	Condition1	Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt	YearRemodAdd	RoofStyle
1	CollgCr	Norm	Norm	1Fam	2Story	7	5	2003	2003	Gable
2	Veenker	Feedr	Norm	1Fam	1Story	6	8	1976	1976	Gable
3	CollgCr	Norm	Norm	1Fam	2Story	7	5	2001	2002	Gable

Obs	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond	Foundation	BsmtQual	BsmtCond
1	CompShg	VinylSd	VinylSd	BrkFace	196	Gd	TA	PCconc	Gd	TA
2	CompShg	MetalSd	MetalSd	None	0	TA	TA	CBlock	Gd	TA
3	CompShg	VinylSd	VinylSd	BrkFace	162	Gd	TA	PCconc	Gd	TA

Obs	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	Heating	HeatingQC
1	No	GLQ	706	Unf	0	150	856	GasA	Ex
2	Gd	ALQ	978	Unf	0	284	1262	GasA	Ex
3	Mn	GLQ	486	Unf	0	434	920	GasA	Ex

Obs	CentralAir	Electrical	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	BsmtHalfBath	FullBath	HalfBath
1	Y	SBrkr	856	854	0	1710	1	0	2	1
2	Y	SBrkr	1262	0	0	1262	0	1	2	0
3	Y	SBrkr	920	866	0	1786	1	0	2	1

Obs	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces	FireplaceQu	GarageType	GarageYrBlt
1	3	1	Gd	8	Typ	0	NA	Attchd	2003
2	3	1	TA	6	Typ	1	TA	Attchd	1976
3	3	1	Gd	6	Typ	1	TA	Attchd	2001

Obs	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive	WoodDeckSF	OpenPorchSF	EnclosedPorch
1	RFn	2	548	TA	TA	Y	0	61	0
2	RFn	2	460	TA	TA	Y	298	0	0
3	RFn	2	608	TA	TA	Y	0	42	0

Obs	3SsnPorch	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature	MiscVal	MoSold	YrSold	SaleType	SaleCondition	SalePrice
1	0	0	0	NA	NA	NA	0	2	2008	WD	Normal	208500
2	0	0	0	NA	NA	NA	0	5	2007	WD	Normal	181500
3	0	0	0	NA	NA	NA	0	9	2008	WD	Normal	223500

Obs	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig	LandSlope
4	4	70	RL	60	9550	Pave	NA	IR1	Lvl	AllPub	Corner	Gtl
5	5	60	RL	84	14260	Pave	NA	IR1	Lvl	AllPub	FR2	Gtl
6	6	50	RL	85	14115	Pave	NA	IR1	Lvl	AllPub	Inside	Gtl

Obs	Neighborhood	Condition1	Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt	YearRemodAdd	RoofStyle
4	Crawfor	Norm	Norm	1Fam	2Story	7	5	1915	1970	Gable
5	NoRidge	Norm	Norm	1Fam	2Story	8	5	2000	2000	Gable
6	Mitchel	Norm	Norm	1Fam	1.5Fin	5	5	1993	1995	Gable

Obs	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond	Foundation	BsmtQual	BsmtCond
4	CompShg	Wd Sdng	Wd Shng	None	0	TA	TA	BrkTil	TA	Gd
5	CompShg	VinylSd	VinylSd	BrkFace	350	Gd	TA	PCconc	Gd	TA
6	CompShg	VinylSd	VinylSd	None	0	TA	TA	Wood	Gd	TA

Obs	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	Heating	HeatingQC
4	No	ALQ	216	Unf	0	540	756	GasA	Gd
5	Av	GLQ	655	Unf	0	490	1145	GasA	Ex
6	No	GLQ	732	Unf	0	64	796	GasA	Ex

Obs	CentralAir	Electrical	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	BsmtHalfBath	FullBath	HalfBath
4	Y	SBrkr	961	756	0	1717	1	0	1	0
5	Y	SBrkr	1145	1053	0	2198	1	0	2	1
6	Y	SBrkr	796	566	0	1362	1	0	1	1

Obs	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces	FireplaceQu	GarageType	GarageYrBlt
4	3	1	Gd	7	Typ	1	Gd	Detchd	1998
5	4	1	Gd	9	Typ	1	TA	Attchd	2000
6	1	1	TA	5	Typ	0	NA	Attchd	1993

Obs	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive	WoodDeckSF	OpenPorchSF	EnclosedPorch
4	Unf	3	642	TA	TA	Y	0	35	272
5	RFn	3	836	TA	TA	Y	192	84	0
6	Unf	2	480	TA	TA	Y	40	30	0

Obs	3SsnPorch	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature	MiscVal	MoSold	YrSold	SaleType	SaleCondition	SalePrice
4	0	0	0	NA	NA	NA	0	2	2006	WD	Abnorml	140000
5	0	0	0	NA	NA	NA	0	12	2008	WD	Normal	250000
6	320	0	0	NA	MnPrv	Shed	700	10	2009	WD	Normal	143000

Obs	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig	LandSlope
7	7	20	RL	75	10084	Pave	NA	Reg	Lvl	AllPub	Inside	Gtl
8	8	60	RL	NA	10382	Pave	NA	IR1	Lvl	AllPub	Corner	Gtl

Obs	Neighborhood	Condition1	Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt	YearRemodAdd	RoofStyle
7	Somerst	Norm	Norm	1Fam	1Story	8	5	2004	2005	Gable
8	NWAmes	PosN	Norm	1Fam	2Story	7	6	1973	1973	Gable

Obs	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond	Foundation	BsmtQual	BsmtCond
7	CompShg	VinylSd	VinylSd	Stone	186	Gd	TA	PConc	Ex	TA
8	CompShg	HdBoard	HdBoard	Stone	240	TA	TA	CBlock	Gd	TA

Obs	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	Heating	HeatingQC
7	Av	GLQ	1369	Unf	0	317	1686	GasA	Ex
8	Mn	ALQ	859	BLQ	32	216	1107	GasA	Ex

Obs	CentralAir	Electrical	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	BsmtHalfBath	FullBath	HalfBath
7	Y	SBrkr	1694	0	0	1694	1	0	2	0
8	Y	SBrkr	1107	983	0	2090	1	0	2	1

Obs	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces	FireplaceQu	GarageType	GarageYrBlt
7	3	1	Gd	7	Typ	1	Gd	Attchd	2004
8	3	1	TA	7	Typ	2	TA	Attchd	1973

Obs	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive	WoodDeckSF	OpenPorchSF	EnclosedPorch
7	RFn	2	636	TA	TA	Y	255	57	0
8	RFn	2	484	TA	TA	Y	235	204	228

Obs	3SsnPorch	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature	MiscVal	MoSold	YrSold	SaleType	SaleCondition	SalePrice
7	0	0	0	NA	NA	NA	0	8	2007	WD	Normal	307000
8	0	0	0	NA	NA	Shed	350	11	2009	WD	Normal	200000

Obs	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig	LandSlope
9	9	50	RM	51	6120	Pave	NA	Reg	Lvl	AllPub	Inside	Gtl
10	10	190	RL	50	7420	Pave	NA	Reg	Lvl	AllPub	Corner	Gtl

Obs	Neighborhood	Condition1	Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt	YearRemodAdd	RoofStyle
9	OldTown	Artery	Norm	1Fam	1.5Fin	7	5	1931	1950	Gable
10	BrkSide	Artery	Artery	2fmCon	1.5Unf	5	6	1939	1950	Gable

Obs	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond	Foundation	BsmtQual	BsmtCond
9	CompShg	BrkFace	Wd Shng	None	0	TA	TA	BrkTil	TA	TA
10	CompShg	MetalSd	MetalSd	None	0	TA	TA	BrkTil	TA	TA

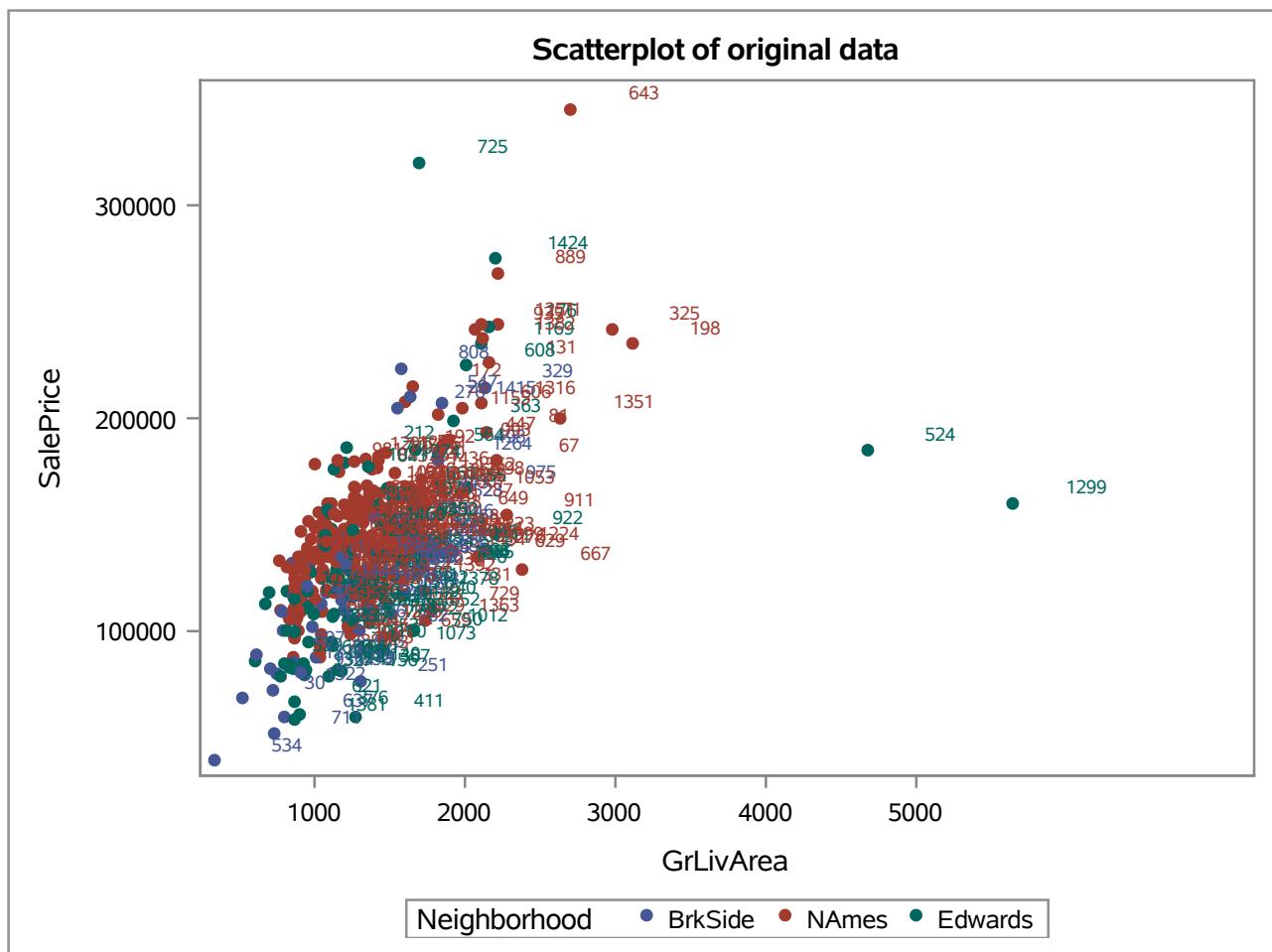
Obs	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	Heating	HeatingQC
9	No	Unf	0	Unf	0	952	952	GasA	Gd
10	No	GLQ	851	Unf	0	140	991	GasA	Ex

Obs	CentralAir	Electrical	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	BsmtHalfBath	FullBath	HalfBath
9	Y	FuseF	1022	752	0	1774	0	0	2	0
10	Y	SBrkr	1077	0	0	1077	1	0	1	0

Obs	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces	FireplaceQu	GarageType	GarageYrBlt
9	2	2	TA	8	Min1	2	TA	Detchd	1931
10	2	2	TA	5	Typ	2	TA	Attchd	1939

Obs	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive	WoodDeckSF	OpenPorchSF	EnclosedPorch
9	Unf	2	468	Fa	TA	Y	90	0	205
10	RFn	1	205	Gd	TA	Y	0	4	0

Obs	3SsnPorch	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature	MiscVal	MoSold	YrSold	SaleType	SaleCondition	SalePrice
9	0	0	0	NA	NA	NA	0	4	2008	WD	Abnorml	129900
10	0	0	0	NA	NA	NA	0	1	2008	WD	Normal	118000



Obs	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig
1	10	190	RL	50	7420	Pave	NA	Reg	Lvl	AllPub	Corner
2	15	20	RL	NA	10920	Pave	NA	IR1	Lvl	AllPub	Corner

Obs	LandSlope	Neighborhood	Condition1	Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt
1	Gtl	BrkSide	Artery	Artery	2fmCon	1.5Unf	5	6	1939
2	Gtl	NAmes	Norm	Norm	1Fam	1Story	6	5	1960

Obs	YearRemodAdd	RoofStyle	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond
1	1950	Gable	CompShg	MetalSd	MetalSd	None	0	TA	TA
2	1960	Hip	CompShg	MetalSd	MetalSd	BrkFace	212	TA	TA

Obs	Foundation	BsmtQual	BsmtCond	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF
1	BrkTil	TA	TA	No	GLQ	851	Unf	0	140
2	CBlock	TA	TA	No	BLQ	733	Unf	0	520

Obs	TotalBsmtSF	Heating	HeatingQC	CentralAir	Electrical	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath
1	991	GasA	Ex	Y	SBrkr	1077	0	0	1077	1
2	1253	GasA	TA	Y	SBrkr	1253	0	0	1253	1

Obs	BsmtHalfBath	FullBath	HalfBath	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces
1	0	1	0	2	2	TA	5	Typ	2
2	0	1	1	2	1	TA	5	Typ	1

Obs	FireplaceQu	GarageType	GarageYrBlt	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive
1	TA	Attchd	1939	RFn	1	205	Gd	TA	Y
2	Fa	Attchd	1960	RFn	1	352	TA	TA	Y

Obs	WoodDeckSF	OpenPorchSF	EnclosedPorch	3SsnPorch	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature	MiscVal
1	0	4	0	0	0	0	NA	NA	NA	0
2	0	213	176	0	0	0	NA	GdWo	NA	0

Obs	MoSold	YrSold	SaleType	SaleCondition	SalePrice	N_Dummy	E_Dummy	int_e	int_n
1	1	2008	WD	Normal	118000	0	0	0	0
2	5	2008	WD	Normal	157000	1	0	0	1253

Obs	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig
3	16	45	RM	51	6120	Pave	NA	Reg	Lvl	AllPub	Corner
4	17	20	RL	NA	11241	Pave	NA	IR1	Lvl	AllPub	CulDSac

Obs	LandSlope	Neighborhood	Condition1	Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt
3	Gtl	BrkSide	Norm	Norm	1Fam	1.5Unf	7	8	1929
4	Gtl	NAmes	Norm	Norm	1Fam	1Story	6	7	1970

Obs	YearRemodAdd	RoofStyle	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond
3	2001	Gable	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA
4	1970	Gable	CompShg	Wd Sdng	Wd Sdng	BrkFace	180	TA	TA

Obs	Foundation	BsmtQual	BsmtCond	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF
3	BrkTil	TA	TA	No	Unf	0	Unf	0	832
4	CBlock	TA	TA	No	ALQ	578	Unf	0	426

Obs	TotalBsmtSF	Heating	HeatingQC	CentralAir	Electrical	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath
3	832	GasA	Ex	Y	FuseA	854	0	0	854	0
4	1004	GasA	Ex	Y	SBrkr	1004	0	0	1004	1

Obs	BsmtHalfBath	FullBath	HalfBath	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces
3	0	1	0	2	1	TA	5	Typ	0
4	0	1	0	2	1	TA	5	Typ	1

Obs	FireplaceQu	GarageType	GarageYrBlt	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive
3	NA	Detchd	1991	Unf	2	576	TA	TA	Y
4	TA	Attchd	1970	Fin	2	480	TA	TA	Y

Obs	WoodDeckSF	OpenPorchSF	EnclosedPorch	3SsnPorch	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature	MiscVal
3	48	112	0	0	0	0	NA	GdPrv	NA	0
4	0	0	0	0	0	0	NA	NA	Shed	700

Obs	MoSold	YrSold	SaleType	SaleCondition	SalePrice	N_Dummy	E_Dummy	int_e	int_n
3	7	2007	WD	Normal	132000	0	0	0	0
4	3	2010	WD	Normal	149000	1	0	0	1004

Obs	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig
5	20	20	RL	70	7560	Pave	NA	Reg	Lvl	AllPub	Inside
6	27	20	RL	60	7200	Pave	NA	Reg	Lvl	AllPub	Corner

Obs	LandSlope	Neighborhood	Condition1	Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt
5	Gtl	NAmes	Norm	Norm	1Fam	1Story	5	6	1958
6	Gtl	NAmes	Norm	Norm	1Fam	1Story	5	7	1951

Obs	YearRemodAdd	RoofStyle	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond
5	1965	Hip	CompShg	BrkFace	Plywood	None	0	TA	TA
6	2000	Gable	CompShg	Wd Sdng	Wd Sdng	None	0	TA	TA

Obs	Foundation	BsmtQual	BsmtCond	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF
5	CBlock	TA	TA	No	LwQ	504	Unf	0	525
6	CBlock	TA	TA	Mn	BLQ	234	Rec	486	180

Obs	TotalBsmtSF	Heating	HeatingQC	CentralAir	Electrical	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath
5	1029	GasA	TA	Y	SBrkr	1339	0	0	1339	0
6	900	GasA	TA	Y	SBrkr	900	0	0	900	0

Obs	BsmtHalfBath	FullBath	HalfBath	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces
5	0	1	0	3	1	TA	6	Min1	0
6	1	1	0	3	1	Gd	5	Typ	0

Obs	FireplaceQu	GarageType	GarageYrBlt	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive
5	NA	Attchd	1958	Unf	1	294	TA	TA	Y
6	NA	Detchd	2005	Unf	2	576	TA	TA	Y

Obs	WoodDeckSF	OpenPorchSF	EnclosedPorch	3SsnPorch	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature	MiscVal
5	0	0	0	0	0	0	NA	MnPrv	NA	0
6	222	32	0	0	0	0	NA	NA	NA	0

Obs	MoSold	YrSold	SaleType	SaleCondition	SalePrice	N_Dummy	E_Dummy	int_e	int_n
5	5	2009	COD	Abnorml	139000	1	0	0	1339
6	5	2010	WD	Normal	134800	1	0	0	900

Obs	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig
7	29	20	RL	47	16321	Pave	NA	IR1	Lvl	AllPub	CulDSac
8	30	30	RM	60	6324	Pave	NA	IR1	Lvl	AllPub	Inside

Obs	LandSlope	Neighborhood	Condition1	Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt
7	Gtl	NAmes	Norm	Norm	1Fam	1Story	5	6	1957
8	Gtl	BrkSide	Feedr	RRNn	1Fam	1Story	4	6	1927

Obs	YearRemodAdd	RoofStyle	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond
7	1997	Gable	CompShg	MetalSd	MetalSd	None	0	TA	TA
8	1950	Gable	CompShg	MetalSd	MetalSd	None	0	TA	TA

Obs	Foundation	BsmtQual	BsmtCond	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF
7	CBlock	TA	TA	Gd	BLQ	1277	Unf	0	207
8	BrkTil	TA	TA	No	Unf	0	Unf	0	520

Obs	TotalBsmtSF	Heating	HeatingQC	CentralAir	Electrical	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath
7	1484	GasA	TA	Y	SBrkr	1600	0	0	1600	1
8	520	GasA	Fa	N	SBrkr	520	0	0	520	0

Obs	BsmtHalfBath	FullBath	HalfBath	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces
7	0	1	0	2	1	TA	6	Typ	2
8	0	1	0	1	1	Fa	4	Typ	0

Obs	FireplaceQu	GarageType	GarageYrBlt	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive
7	Gd	Attchd	1957	RFn	1	319	TA	TA	Y
8	NA	Detchd	1920	Unf	1	240	Fa	TA	Y

Obs	WoodDeckSF	OpenPorchSF	EnclosedPorch	3SsnPorch	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature	MiscVal
7	288	258	0	0	0	0	NA	NA	NA	0
8	49	0	87	0	0	0	NA	NA	NA	0

Obs	MoSold	YrSold	SaleType	SaleCondition	SalePrice	N_Dummy	E_Dummy	int_e	int_n
7	12	2006	WD	Normal	207500	1	0	0	1600
8	5	2008	WD	Normal	68500	0	0	0	0

Obs	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig
9	34	20	RL	70	10552	Pave	NA	IR1	Lvl	AllPub	Inside
10	38	20	RL	74	8532	Pave	NA	Reg	Lvl	AllPub	Inside

Obs	LandSlope	Neighborhood	Condition1	Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt
9	Gtl	NAmes	Norm	Norm	1Fam	1Story	5	5	1959
10	Gtl	NAmes	Norm	Norm	1Fam	1Story	5	6	1954

Obs	YearRemodAdd	RoofStyle	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond
9	1959	Hip	CompShg	BrkFace	BrkFace	None	0	TA	TA
10	1990	Hip	CompShg	Wd Sdng	Wd Sdng	BrkFace	650	TA	TA

Obs	Foundation	BsmtQual	BsmtCond	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF
9	CBlock	TA	TA	No	Rec	1018	Unf	0	380
10	CBlock	TA	TA	No	Rec	1213	Unf	0	84

Obs	TotalBsmtSF	Heating	HeatingQC	CentralAir	Electrical	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath
9	1398	GasA	Gd	Y	SBrkr	1700	0	0	1700	0
10	1297	GasA	Gd	Y	SBrkr	1297	0	0	1297	0

Obs	BsmtHalfBath	FullBath	HalfBath	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces
9	1	1	1	4	1	Gd	6	Typ	1
10	1	1	0	3	1	TA	5	Typ	1

Obs	FireplaceQu	GarageType	GarageYrBlt	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive
9	Gd	Attchd	1959	RFn	2	447	TA	TA	Y
10	TA	Attchd	1954	Fin	2	498	TA	TA	Y

Obs	WoodDeckSF	OpenPorchSF	EnclosedPorch	3SsnPorch	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature	MiscVal
9	0	38	0	0	0	0	NA	NA	NA	0
10	0	0	0	0	0	0	NA	NA	NA	0

Obs	MoSold	YrSold	SaleType	SaleCondition	SalePrice	N_Dummy	E_Dummy	int_e	int_n
9	4	2010	WD	Normal	165500	1	0	0	1700
10	10	2009	WD	Normal	153000	1	0	0	1297

Linear-Linear MLR with Dummy and Interactions with Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice

Number of Observations Read	383
Number of Observations Used	383

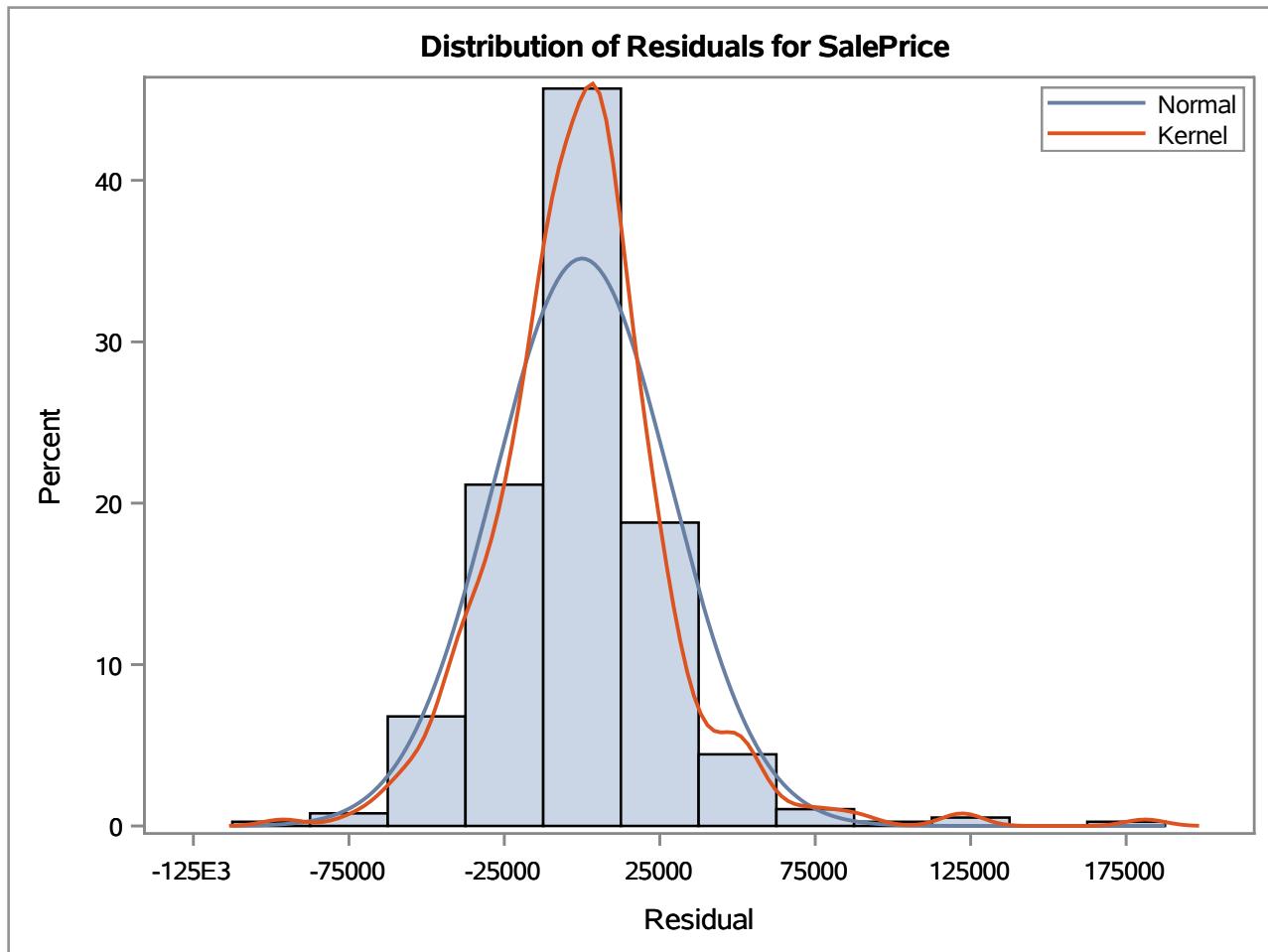
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	2.48809E11	49761808941	61.04	<.0001
Error	377	3.073431E11	815233644		
Corrected Total	382	5.561521E11			

Root MSE	28552	R-Square	0.4474
Dependent Mean	138063	Adj R-Sq	0.4400
Coeff Var	20.68070		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	19972	12351	1.62	0.1067
GrLivArea	1	87.16253	9.78196	8.91	<.0001
E_Dummy	1	68382	13970	4.90	<.0001
N_Dummy	1	54705	13882	3.94	<.0001
int_e	1	-57.41223	10.71767	-5.36	<.0001
int_n	1	-32.84667	10.81538	-3.04	0.0026

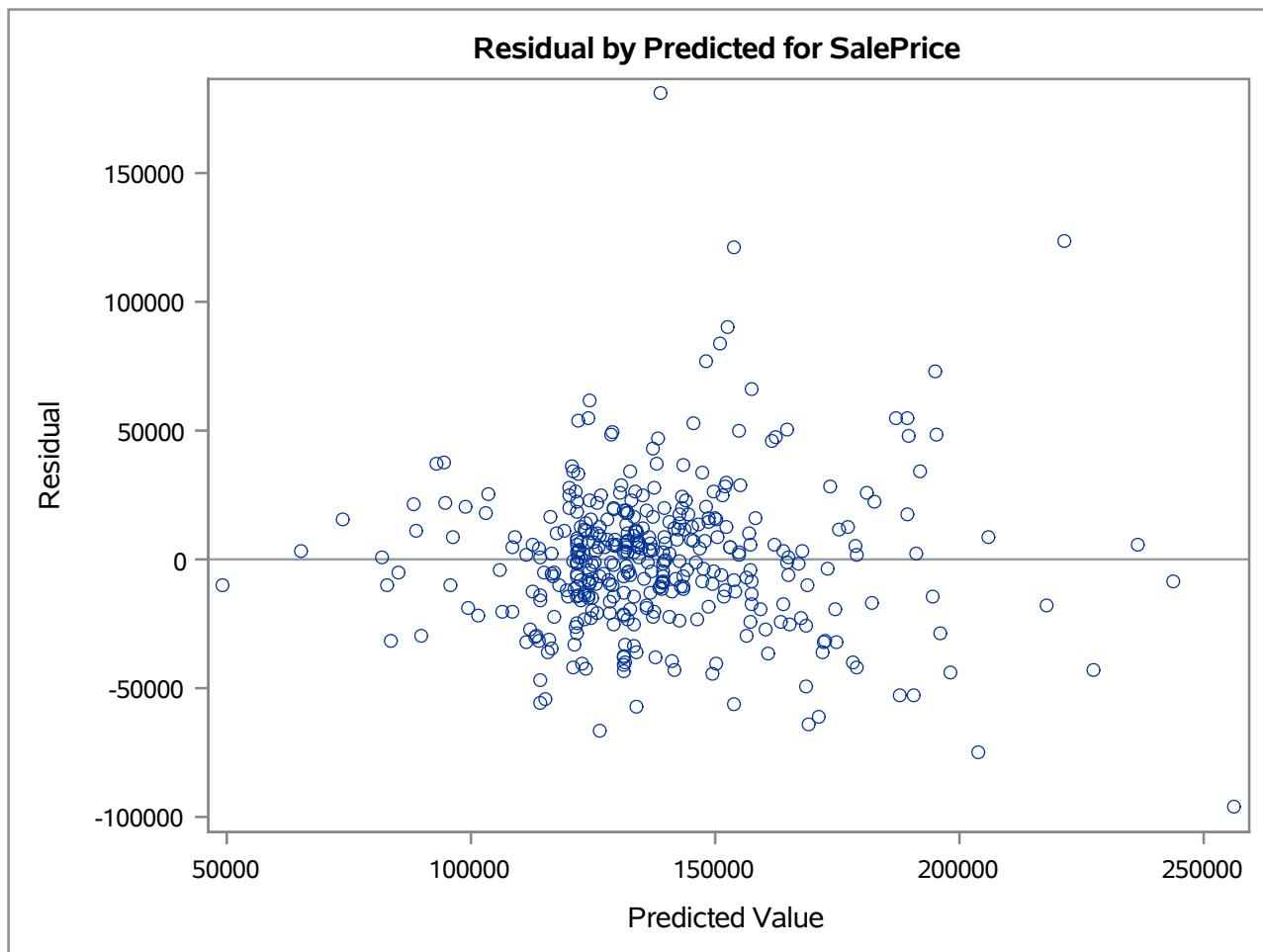
Linear-Linear MLR with Dummy and Interactions with Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



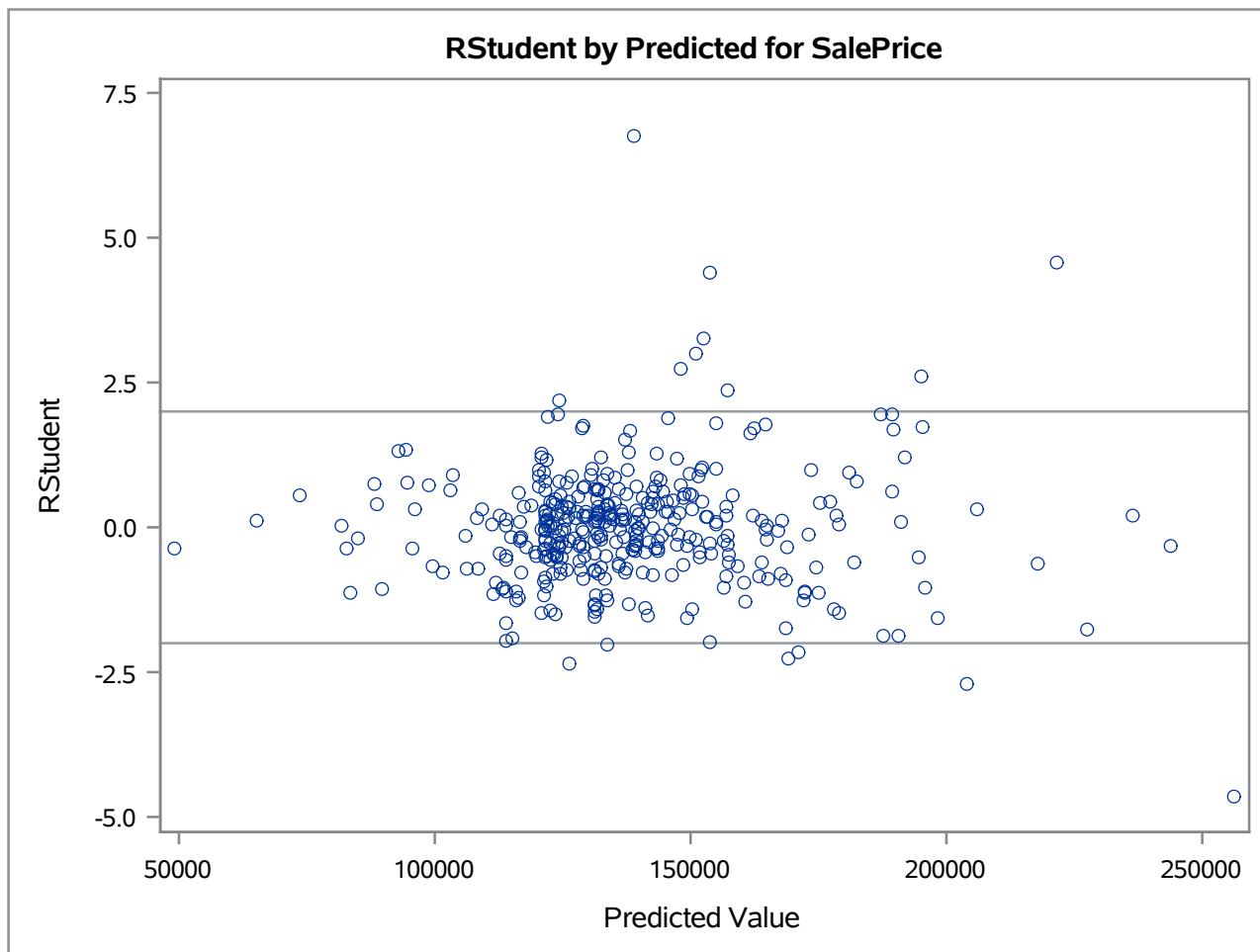
Linear-Linear MLR with Dummy and Interactions with Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



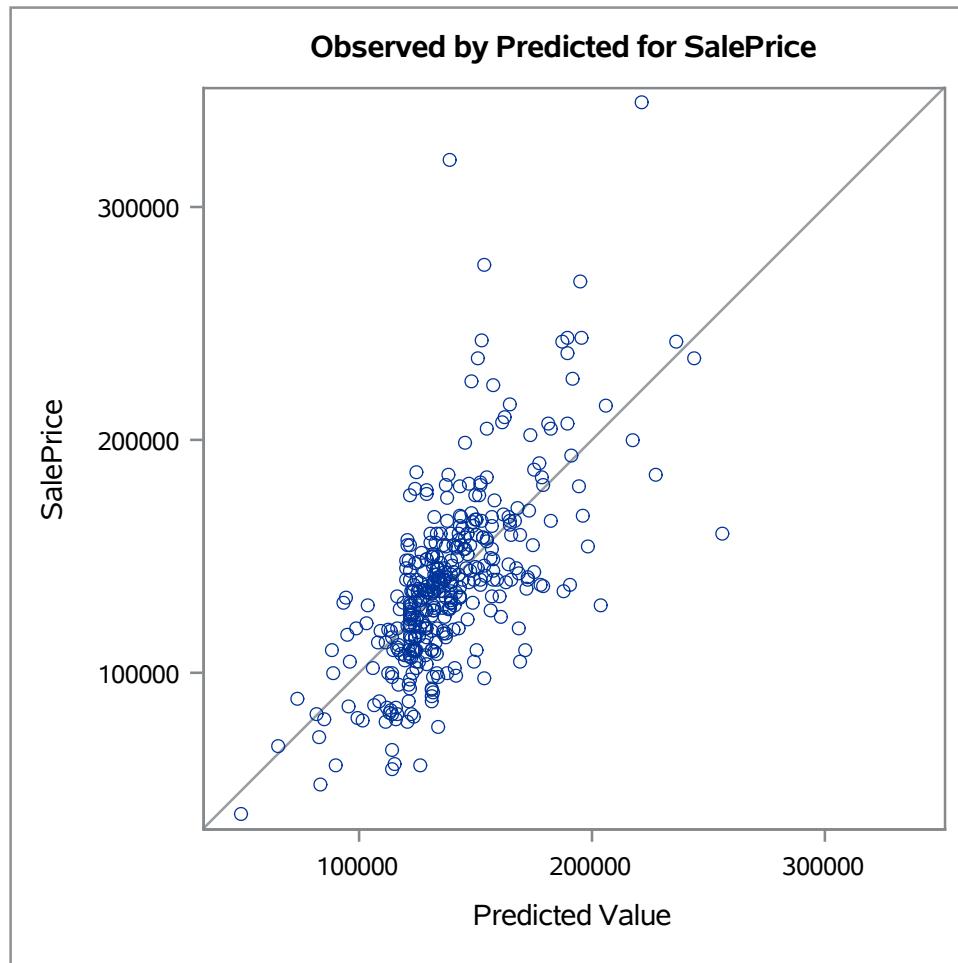
Linear-Linear MLR with Dummy and Interactions with Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



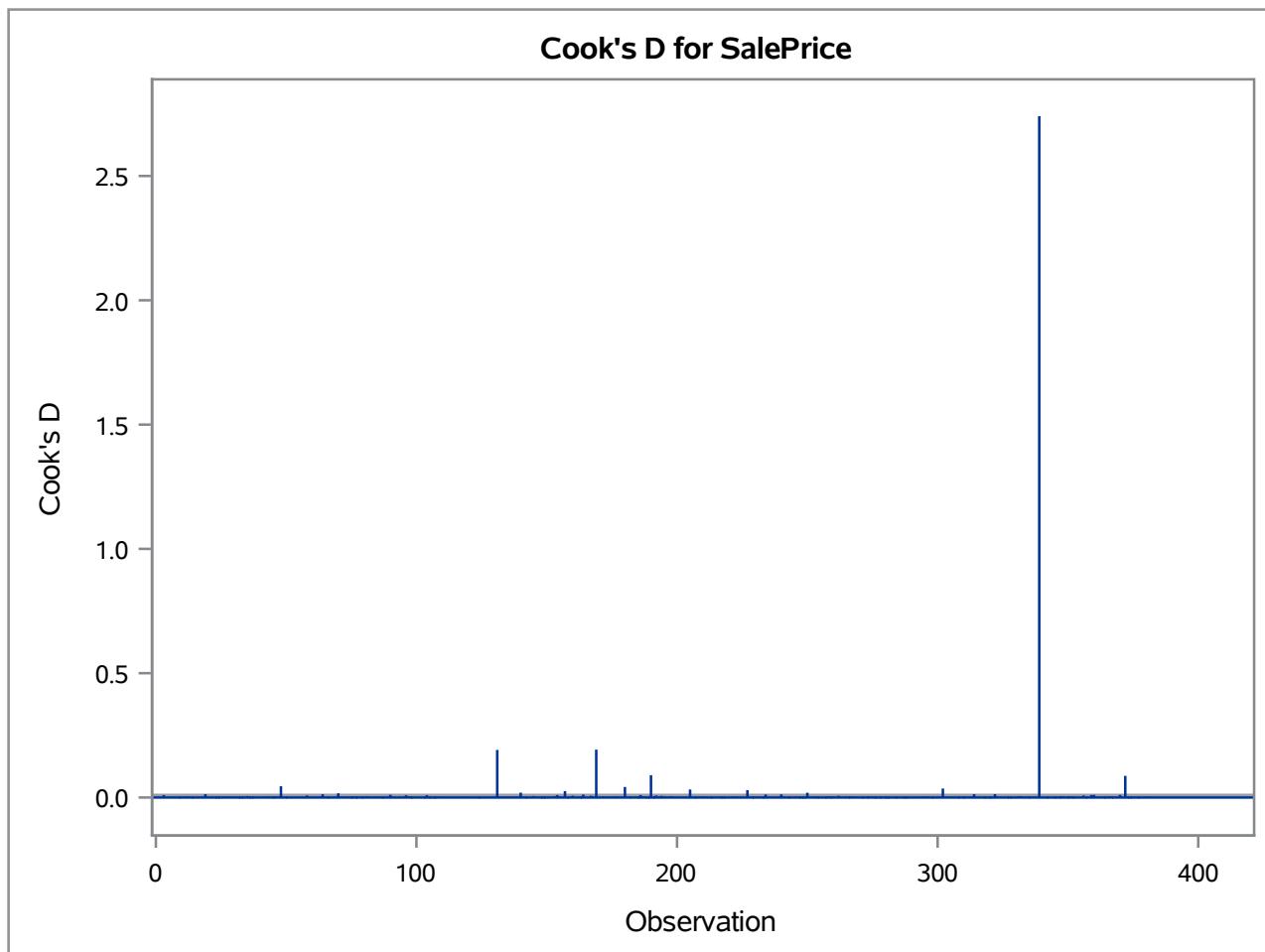
Linear-Linear MLR with Dummy and Interactions with Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



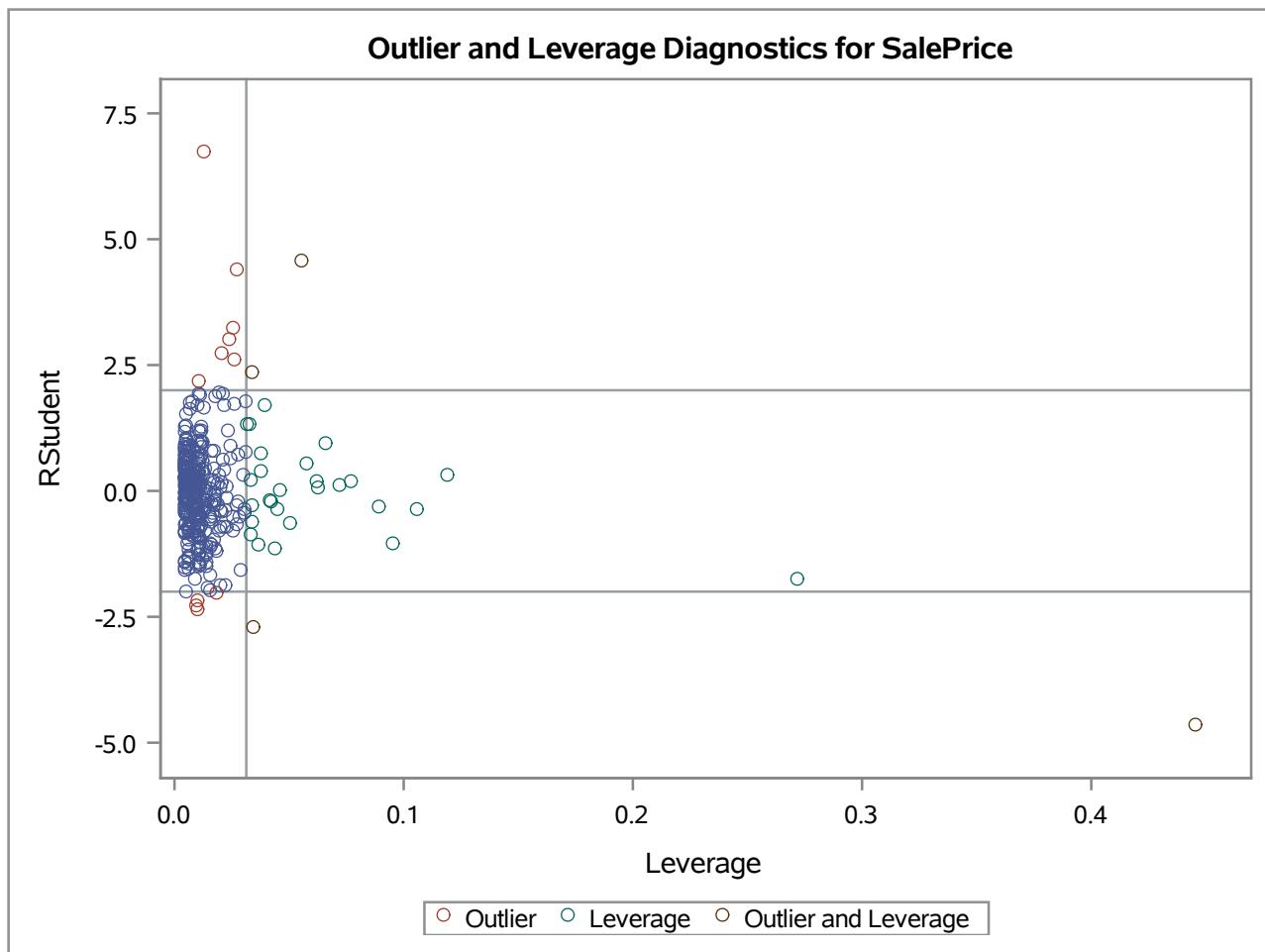
Linear-Linear MLR with Dummy and Interactions with Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



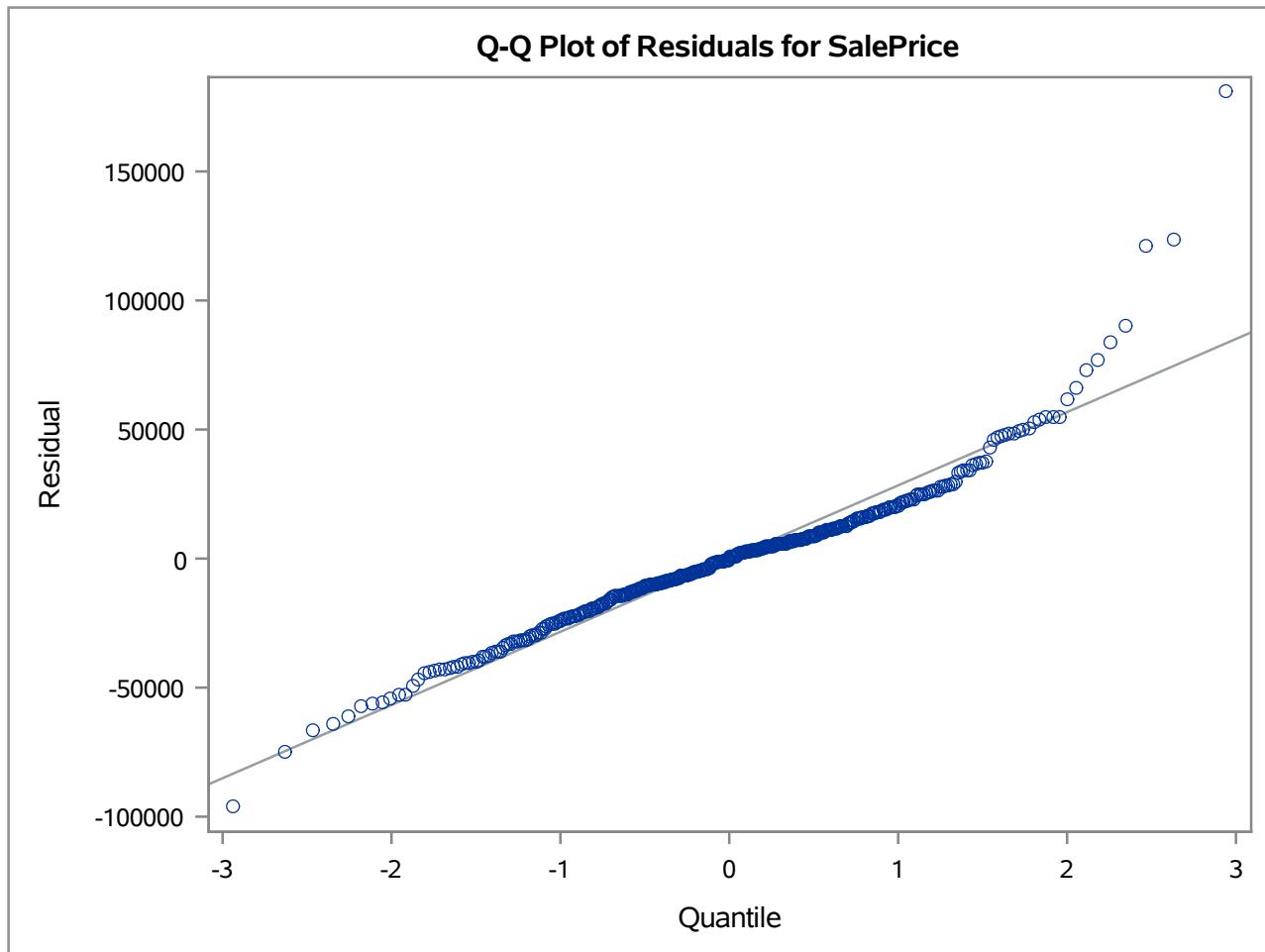
Linear-Linear MLR with Dummy and Interactions with Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



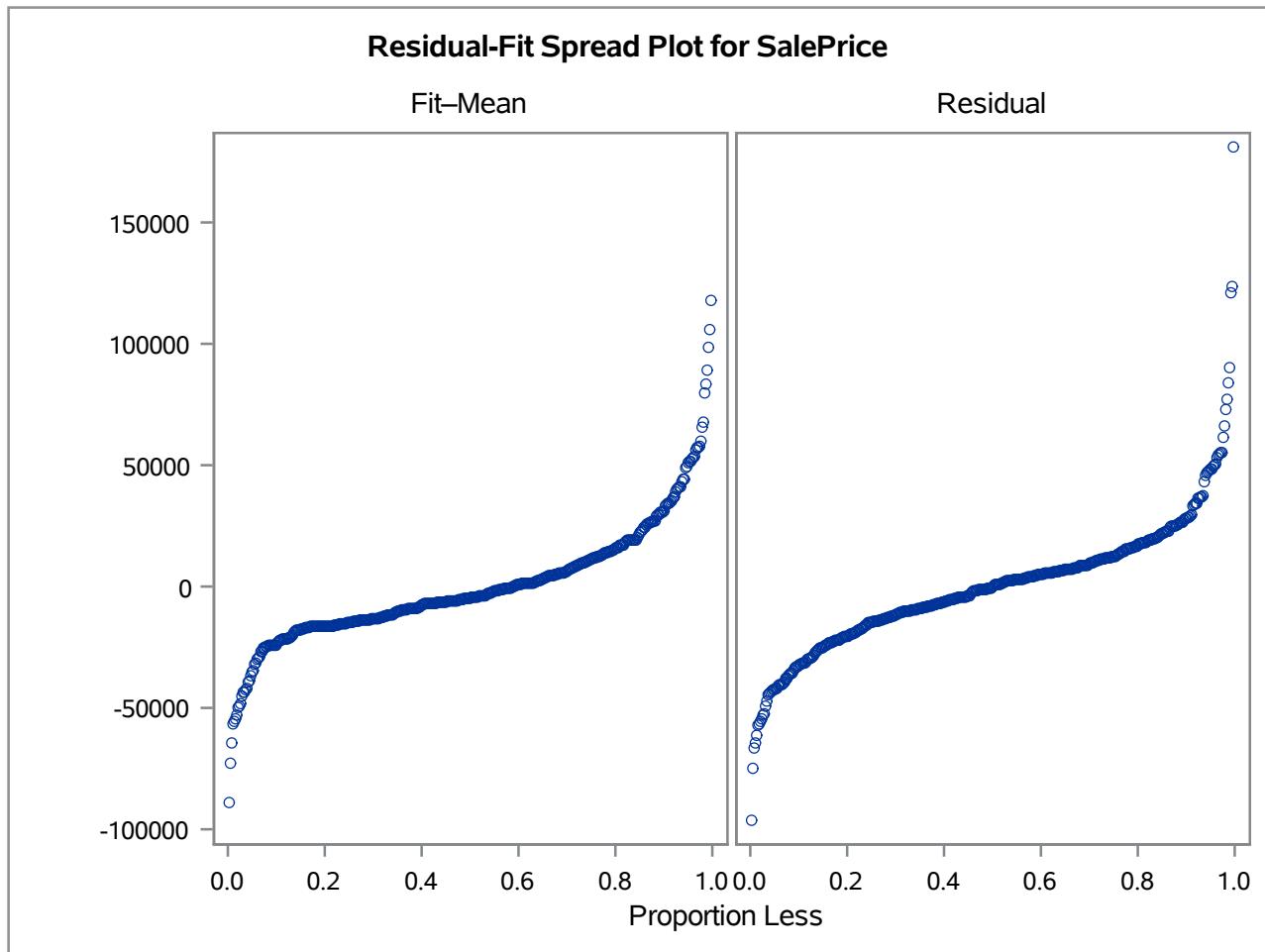
Linear-Linear MLR with Dummy and Interactions with Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



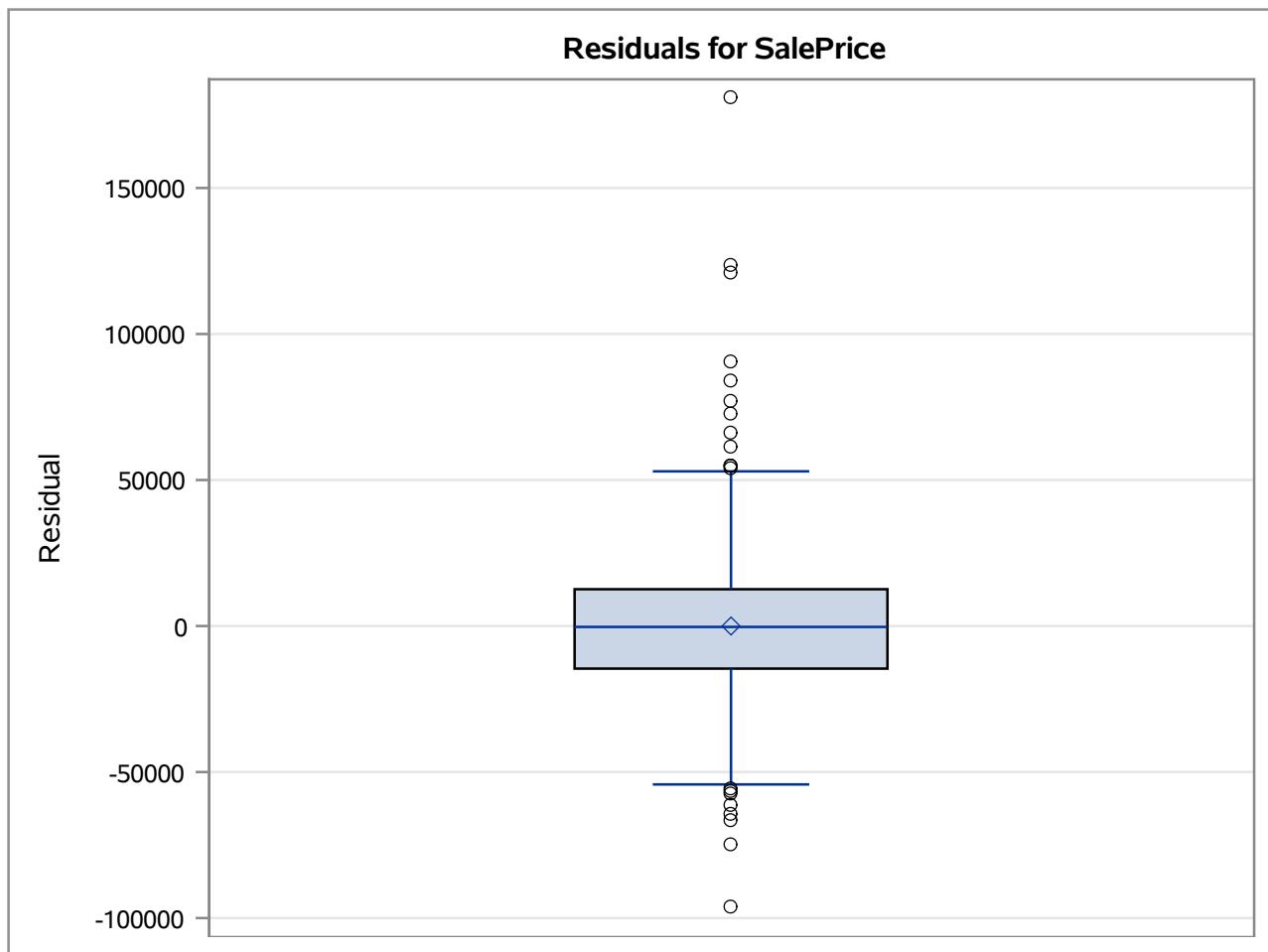
Linear-Linear MLR with Dummy and Interactions with Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



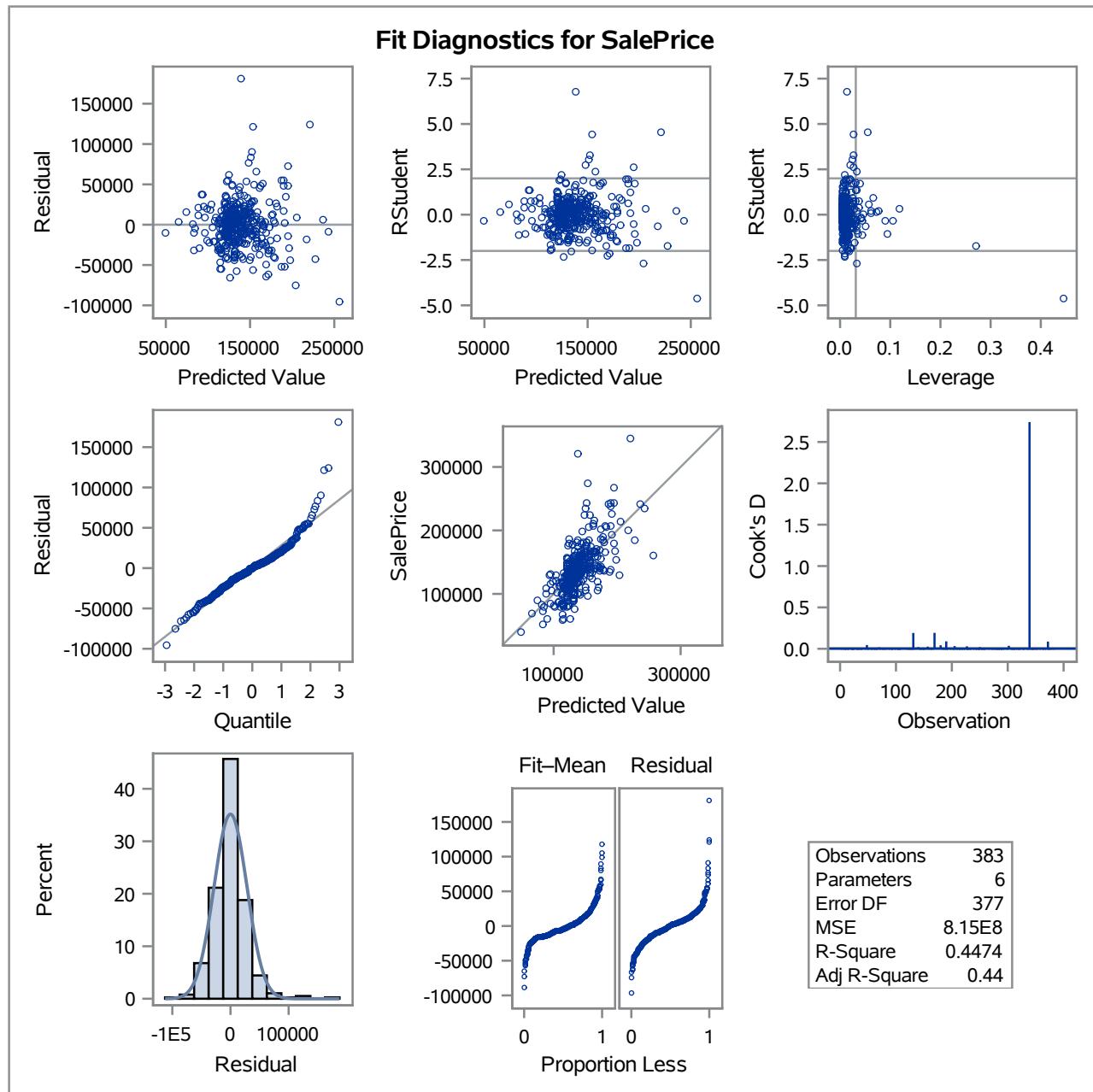
Linear-Linear MLR with Dummy and Interactions with Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



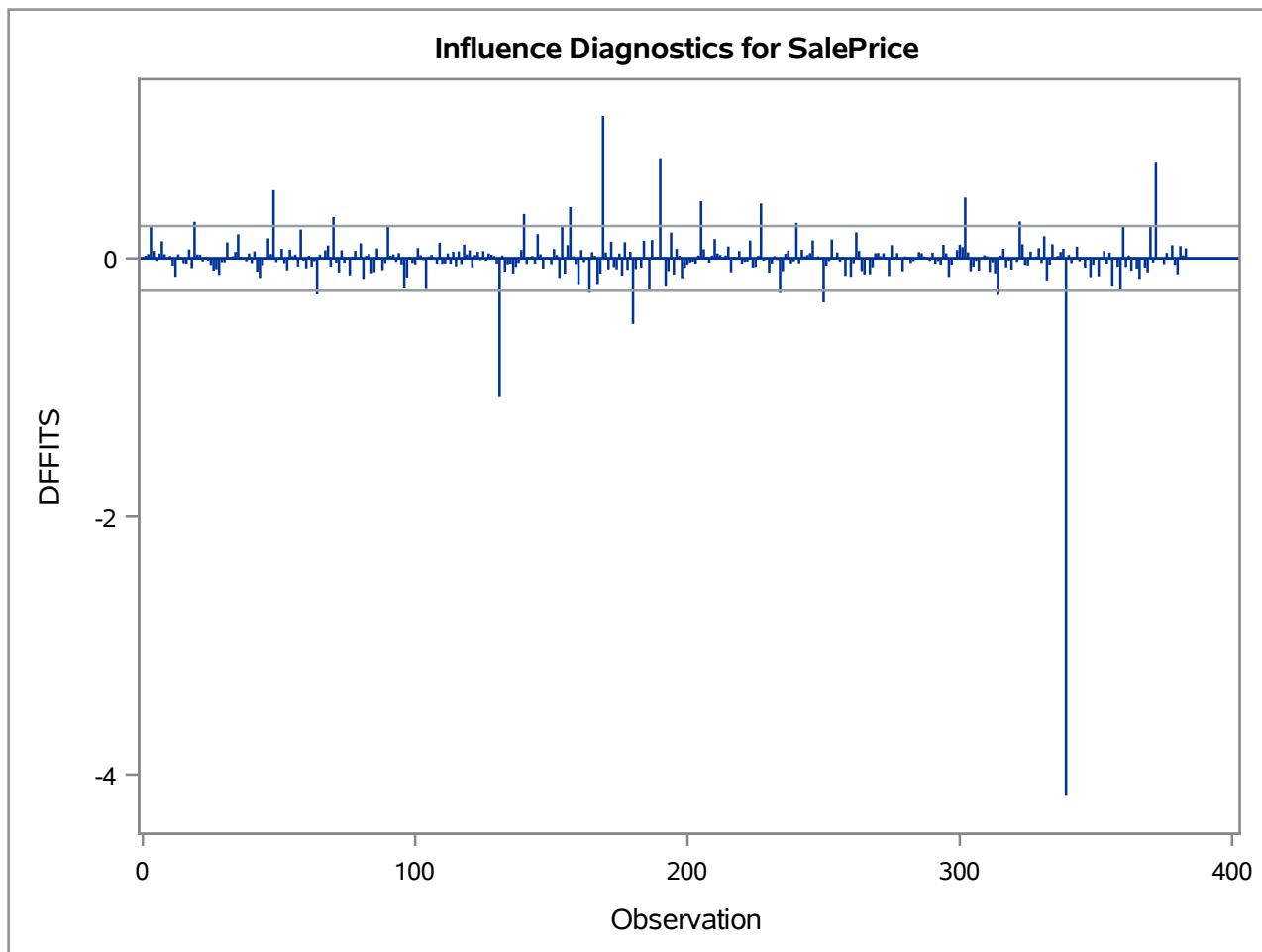
Linear-Linear MLR with Dummy and Interactions with Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



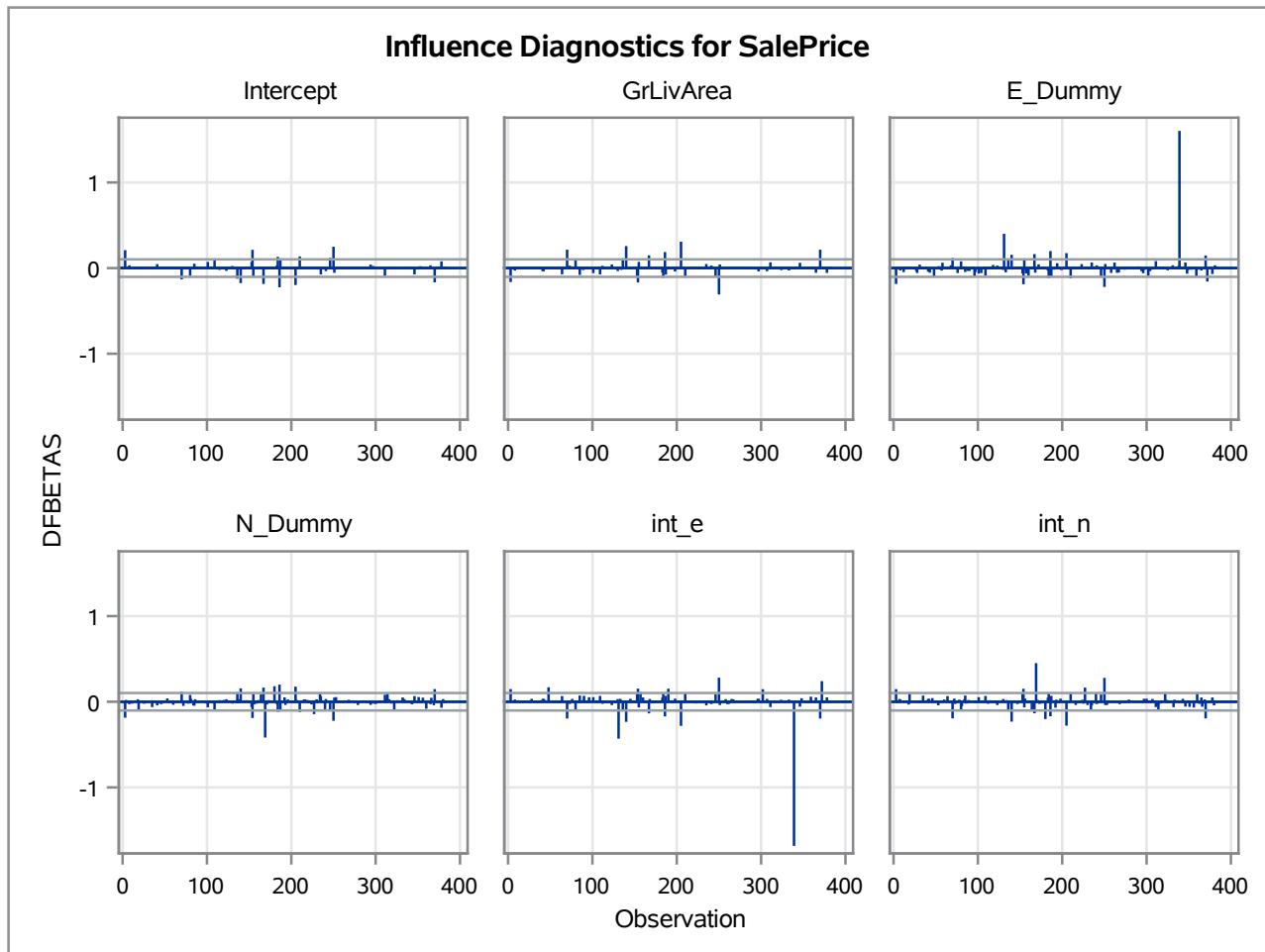
Linear-Linear MLR with Dummy and Interactions with Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



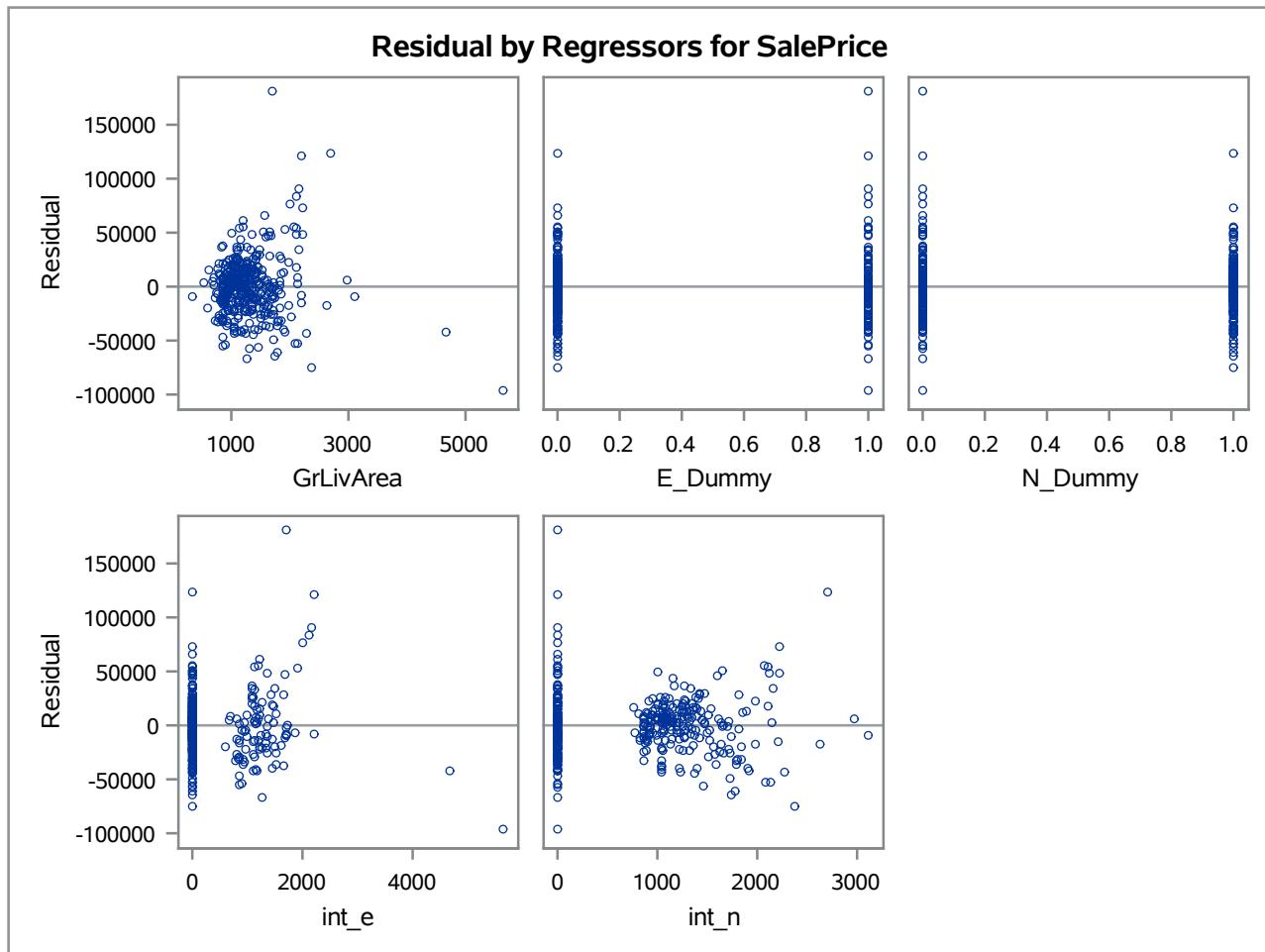
Linear-Linear MLR with Dummy and Interactions with Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



Linear-Linear MLR with Dummy and Interactions with Influential Point 1299

The REG Procedure
 Model: MODEL1
 Dependent Variable: SalePrice



Linear-Linear MLR with Dummy and Interactions w/o Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice

Number of Observations Read	382
Number of Observations Used	382

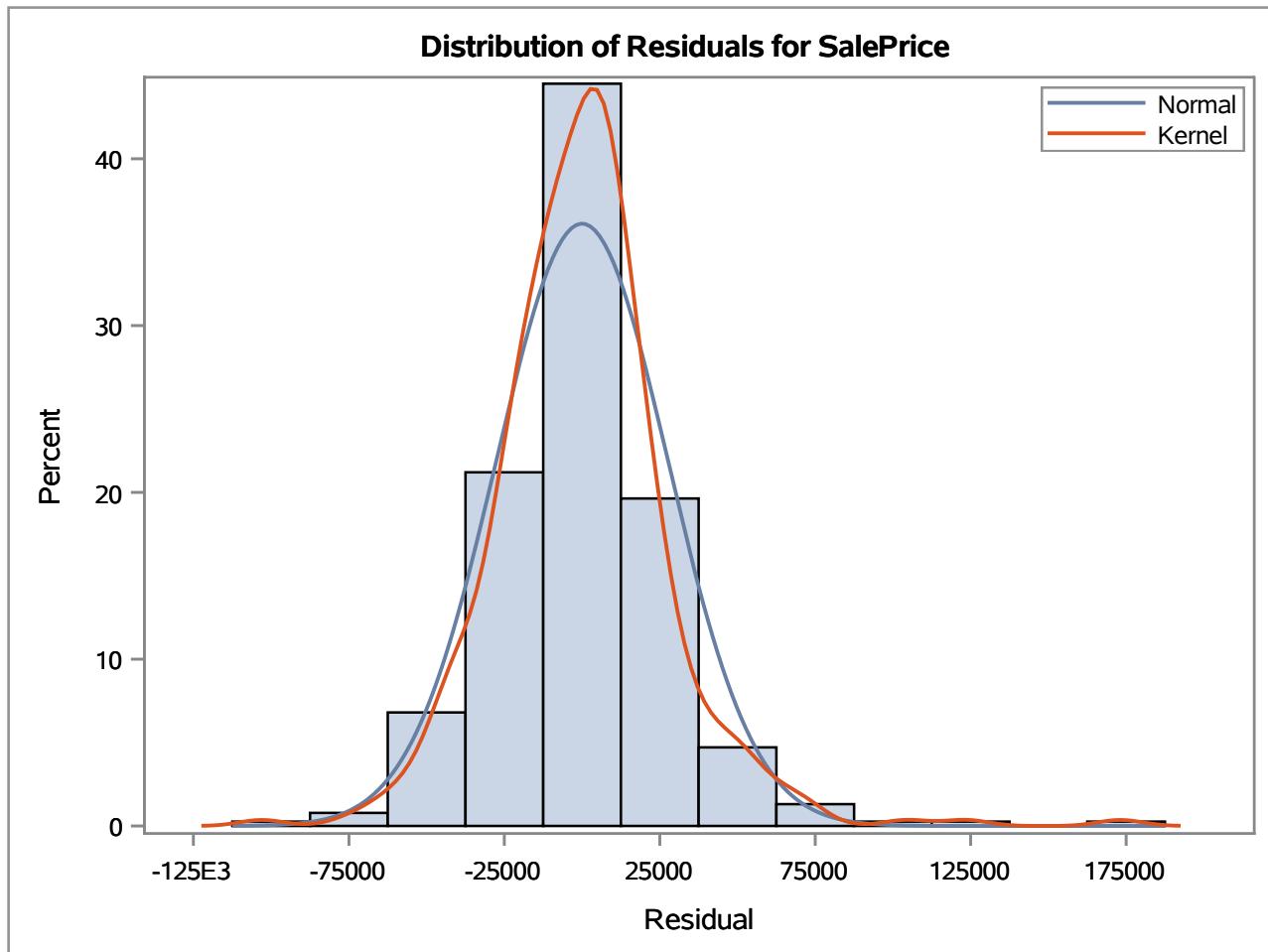
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	2.650162E11	53003234724	68.57	<.0001
Error	376	2.906534E11	773014472		
Corrected Total	381	5.556696E11			

Root MSE	27803	R-Square	0.4769
Dependent Mean	138005	Adj R-Sq	0.4700
Coeff Var	20.14646		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	19972	12027	1.66	0.0976
GrLivArea	1	87.16253	9.52530	9.15	<.0001
E_Dummy	1	46585	14389	3.24	0.0013
N_Dummy	1	54705	13518	4.05	<.0001
int_e	1	-39.85230	11.09962	-3.59	0.0004
int_n	1	-32.84667	10.53160	-3.12	0.0020

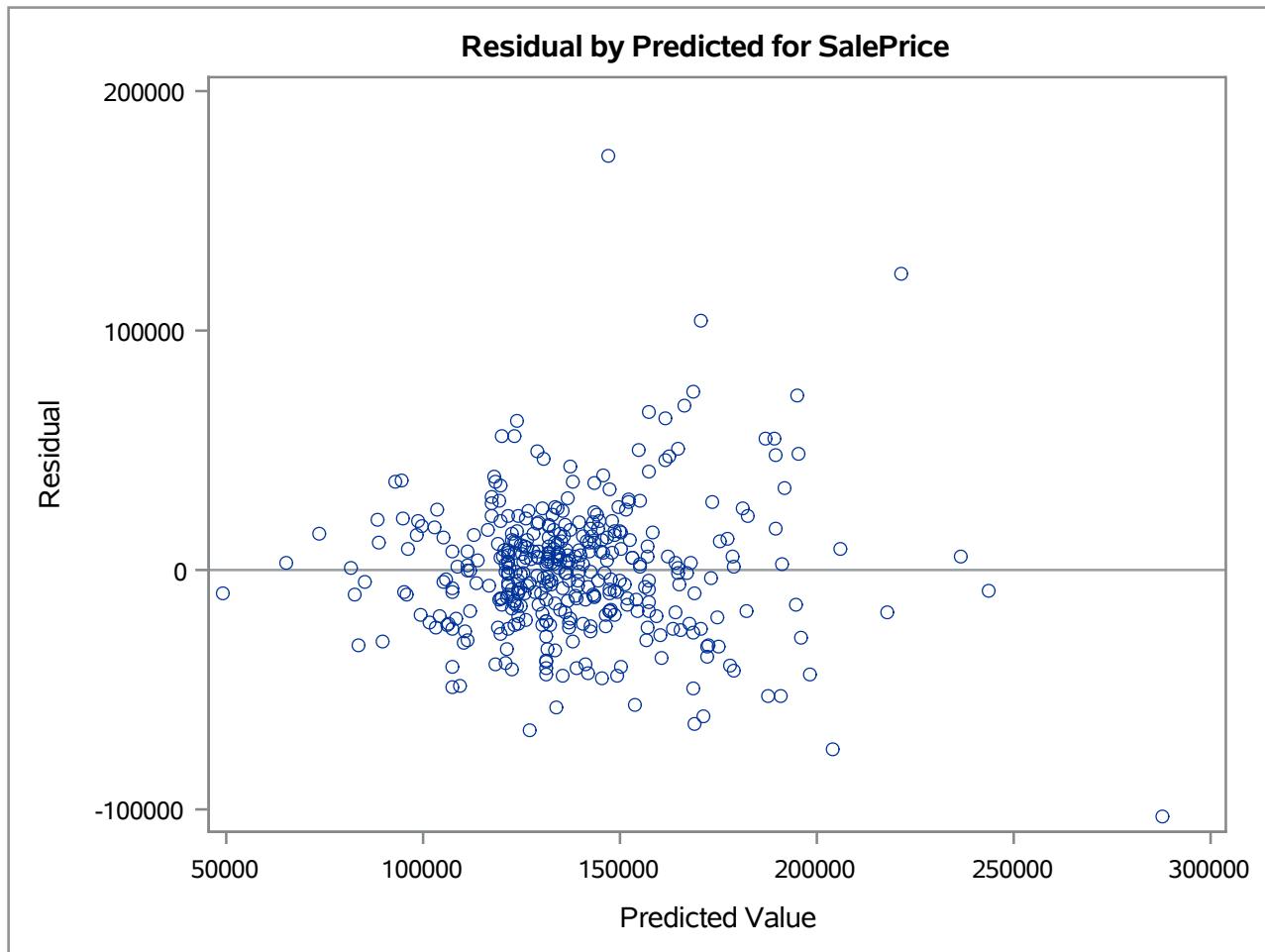
Linear-Linear MLR with Dummy and Interactions w/o Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



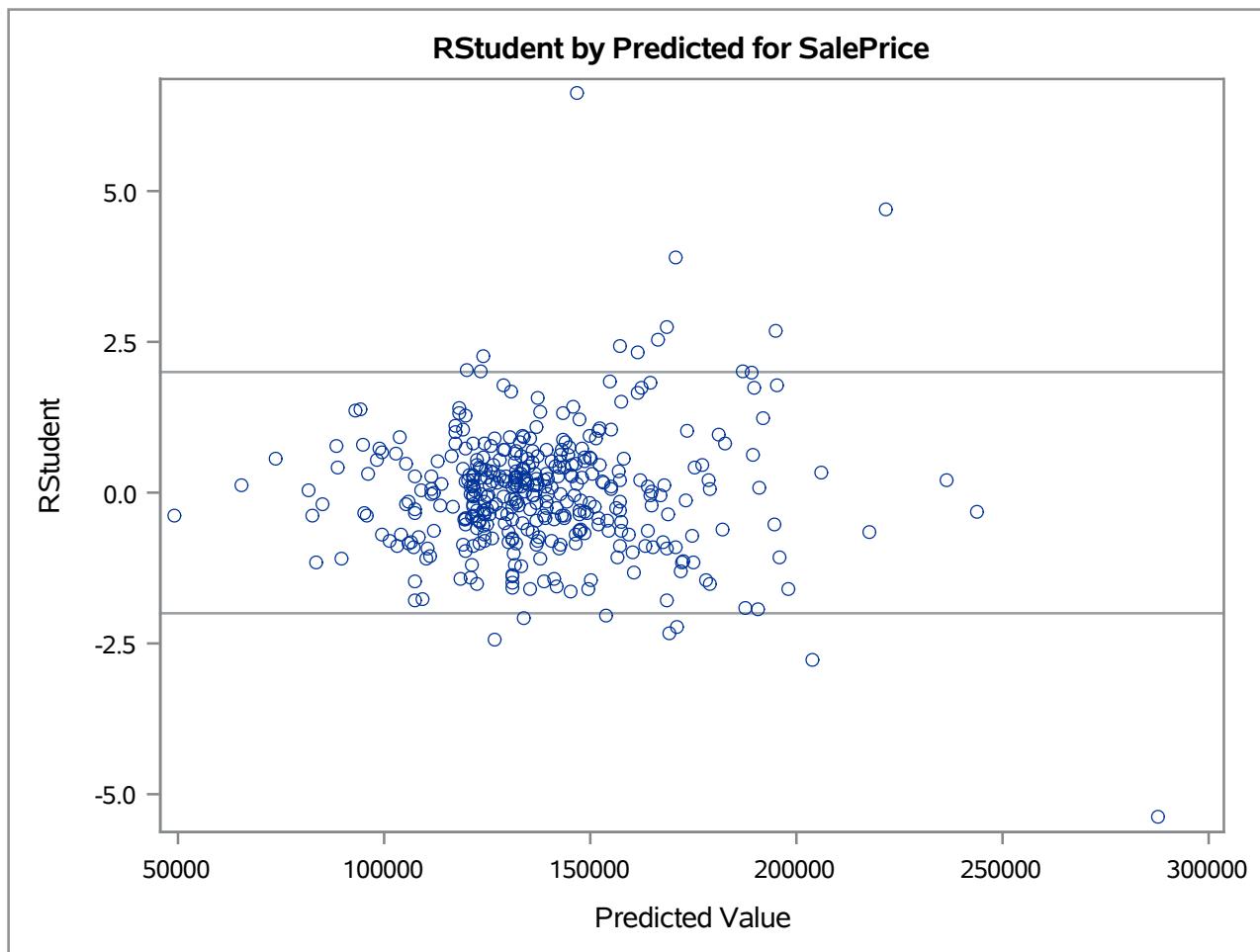
Linear-Linear MLR with Dummy and Interactions w/o Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



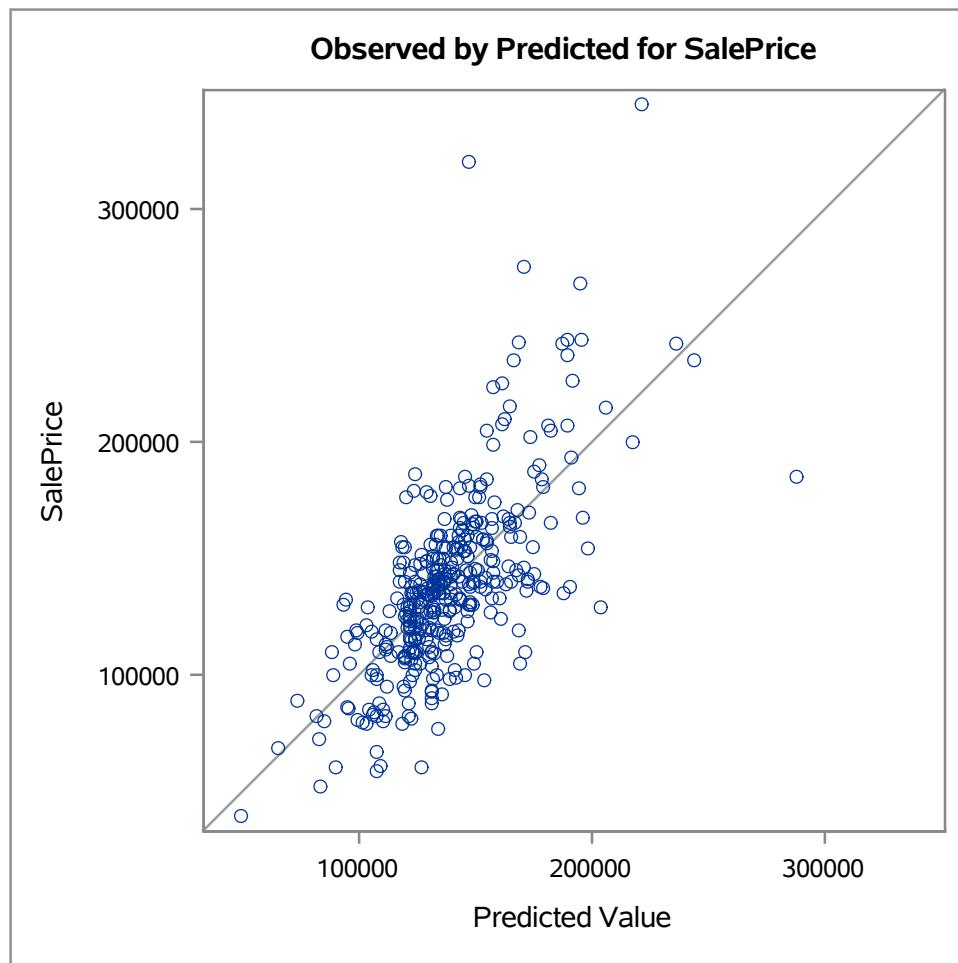
Linear-Linear MLR with Dummy and Interactions w/o Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



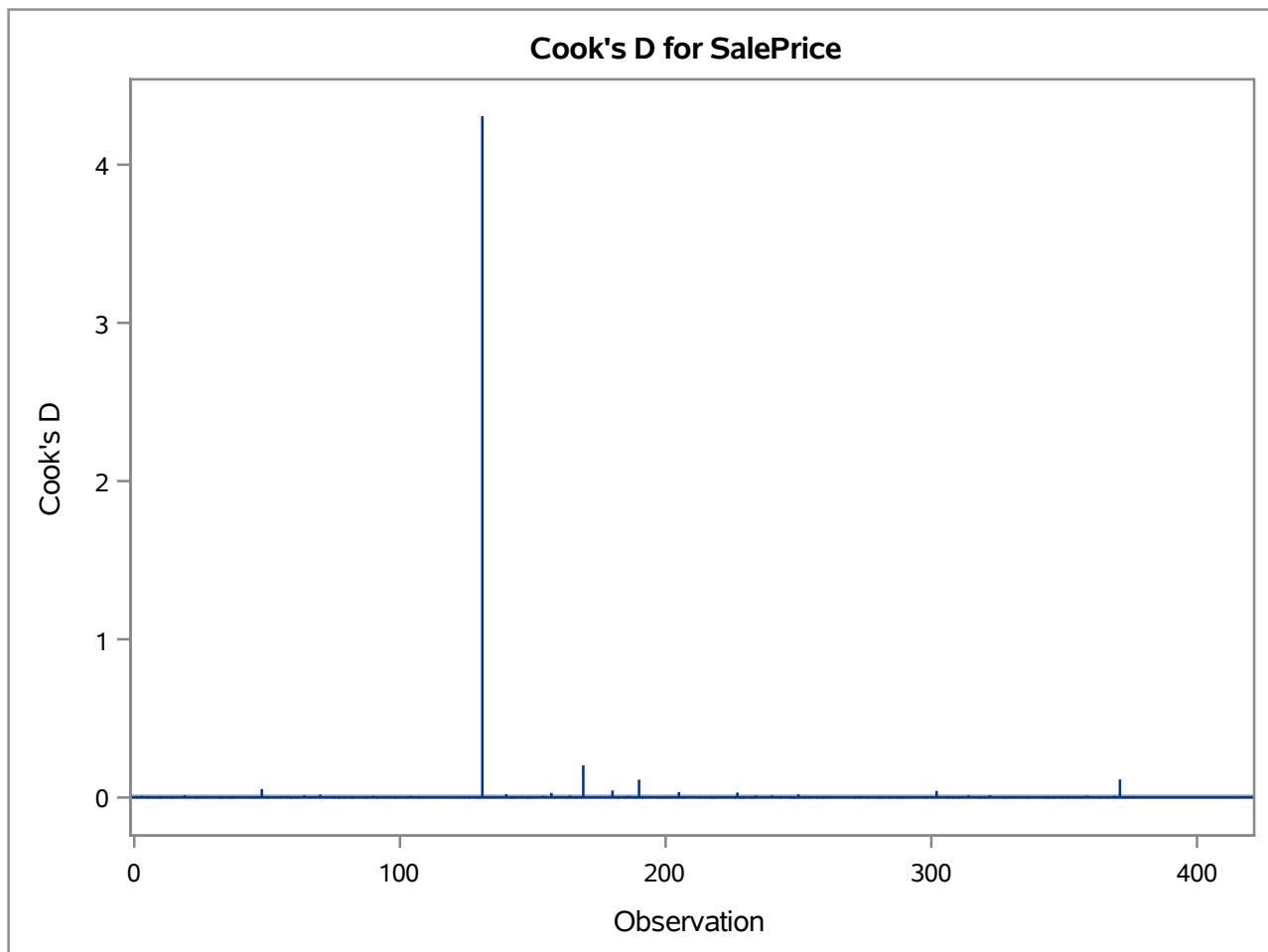
Linear-Linear MLR with Dummy and Interactions w/o Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



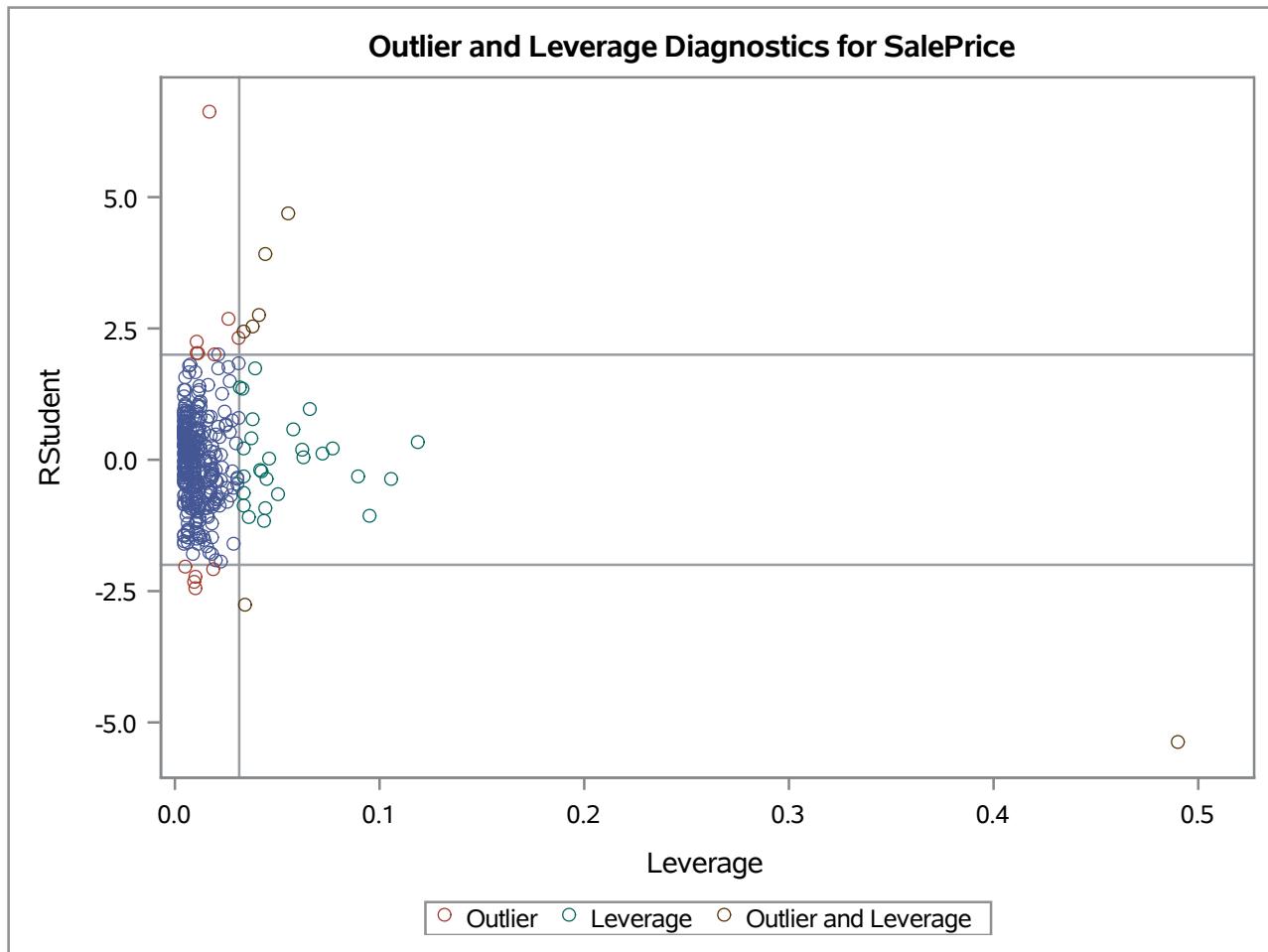
Linear-Linear MLR with Dummy and Interactions w/o Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



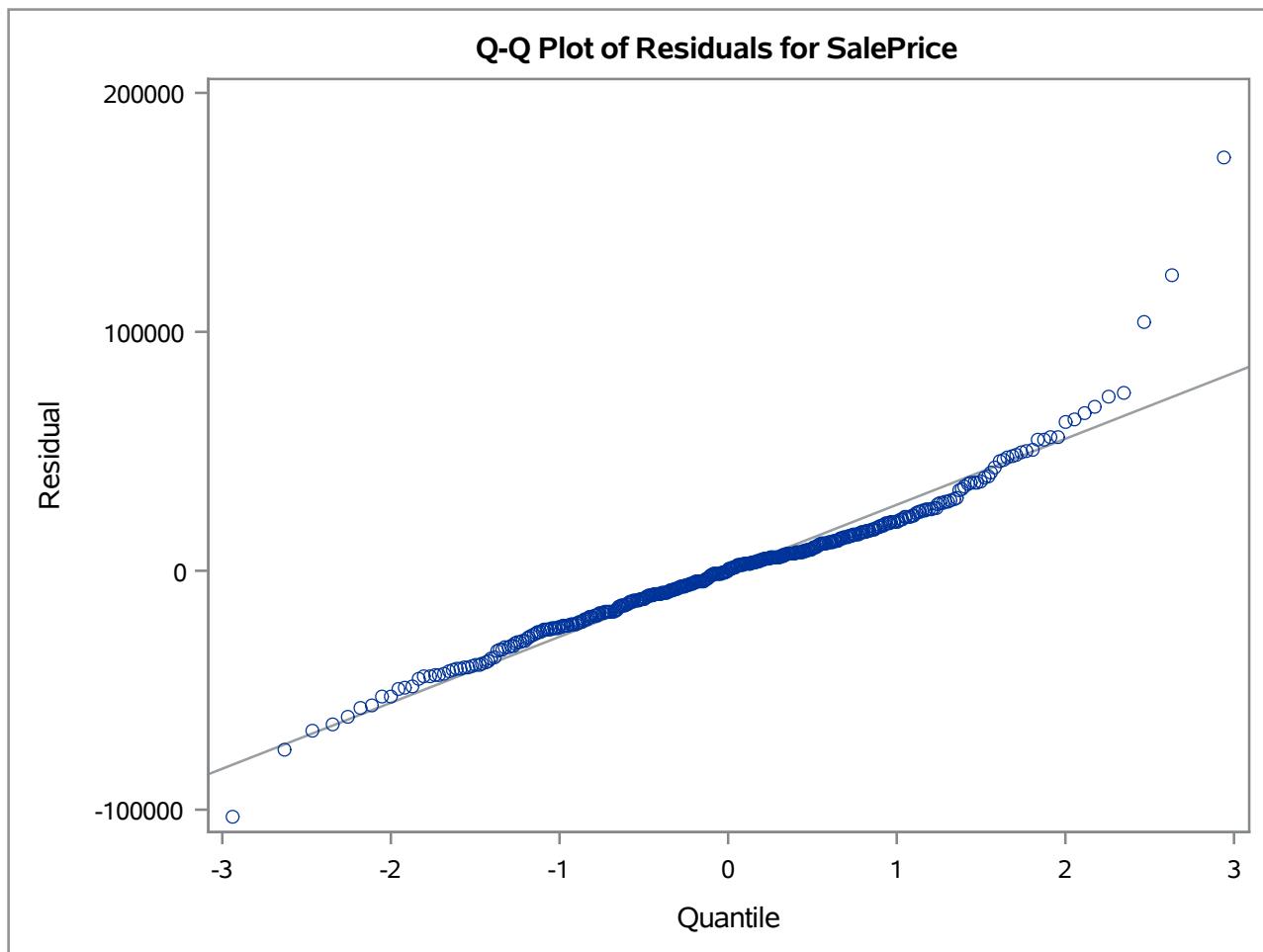
Linear-Linear MLR with Dummy and Interactions w/o Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



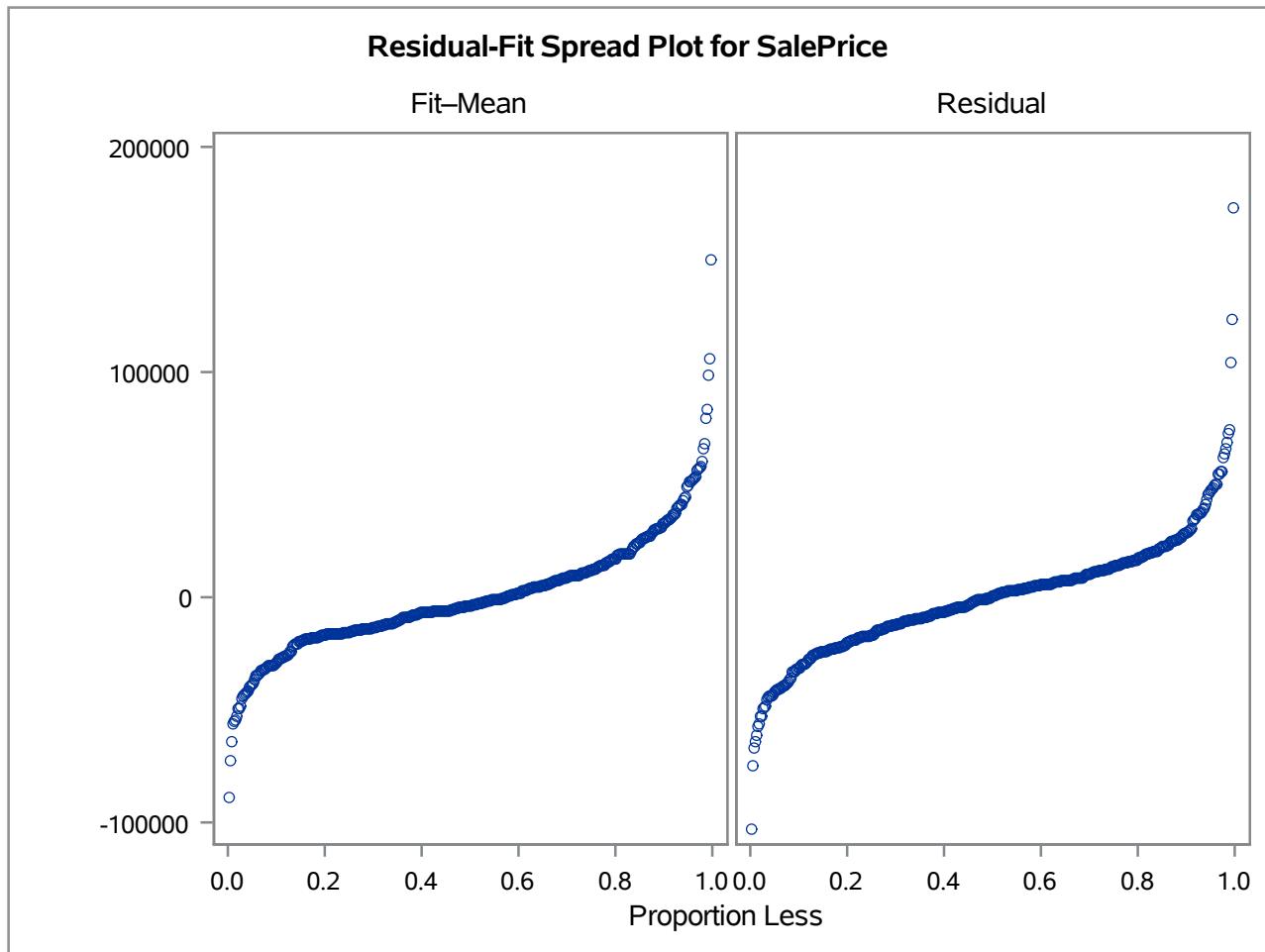
Linear-Linear MLR with Dummy and Interactions w/o Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



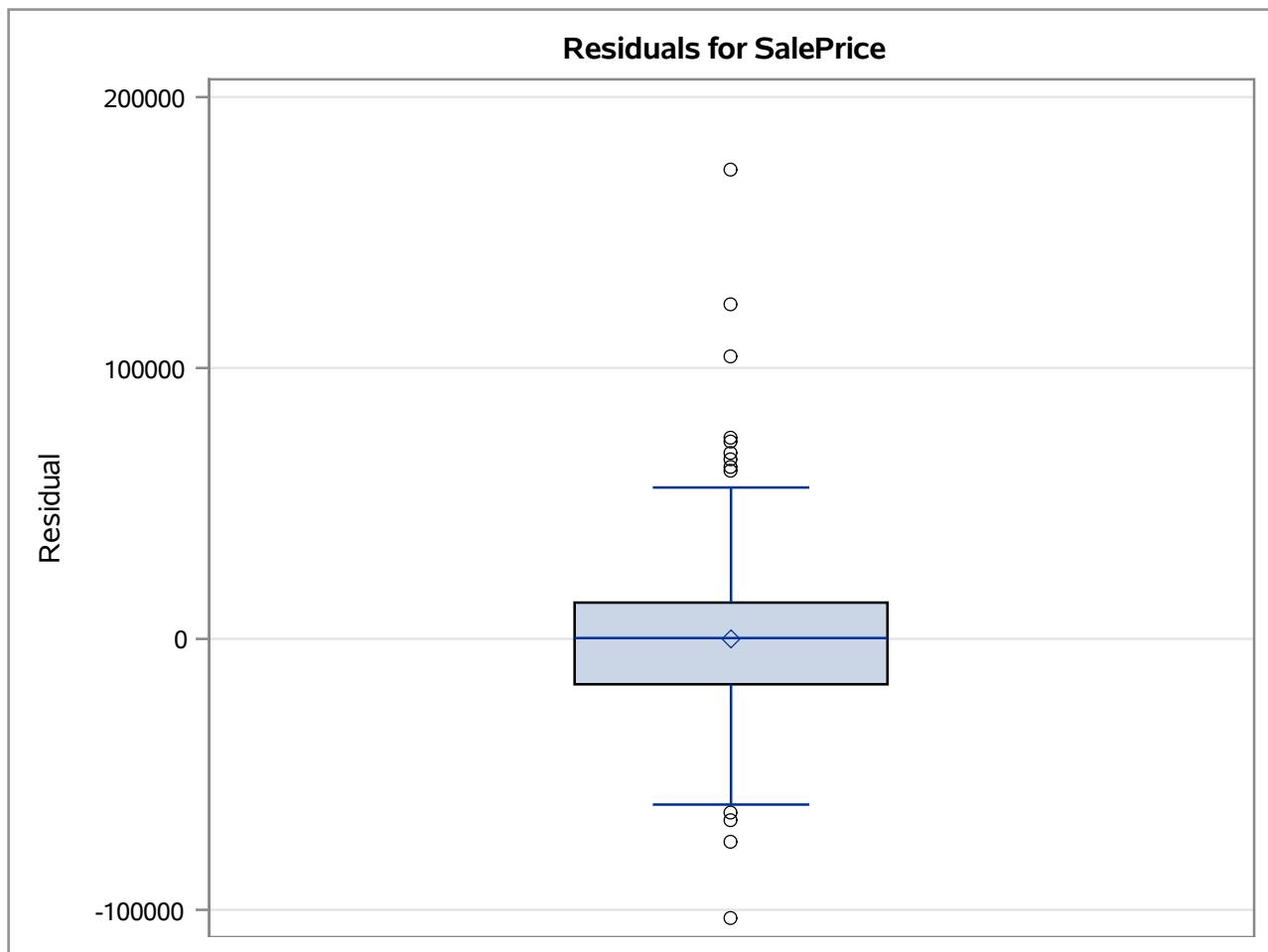
Linear-Linear MLR with Dummy and Interactions w/o Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



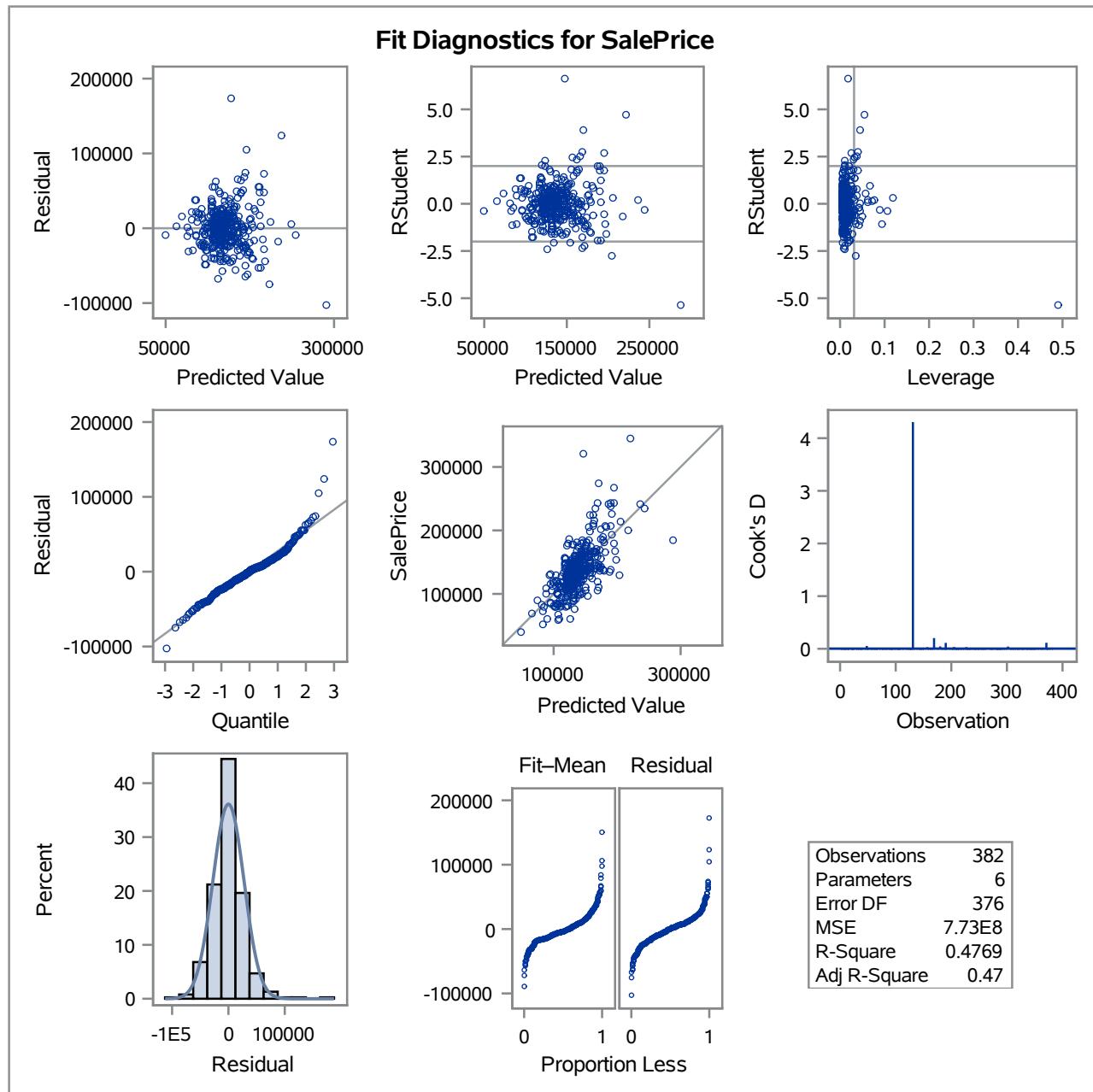
Linear-Linear MLR with Dummy and Interactions w/o Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



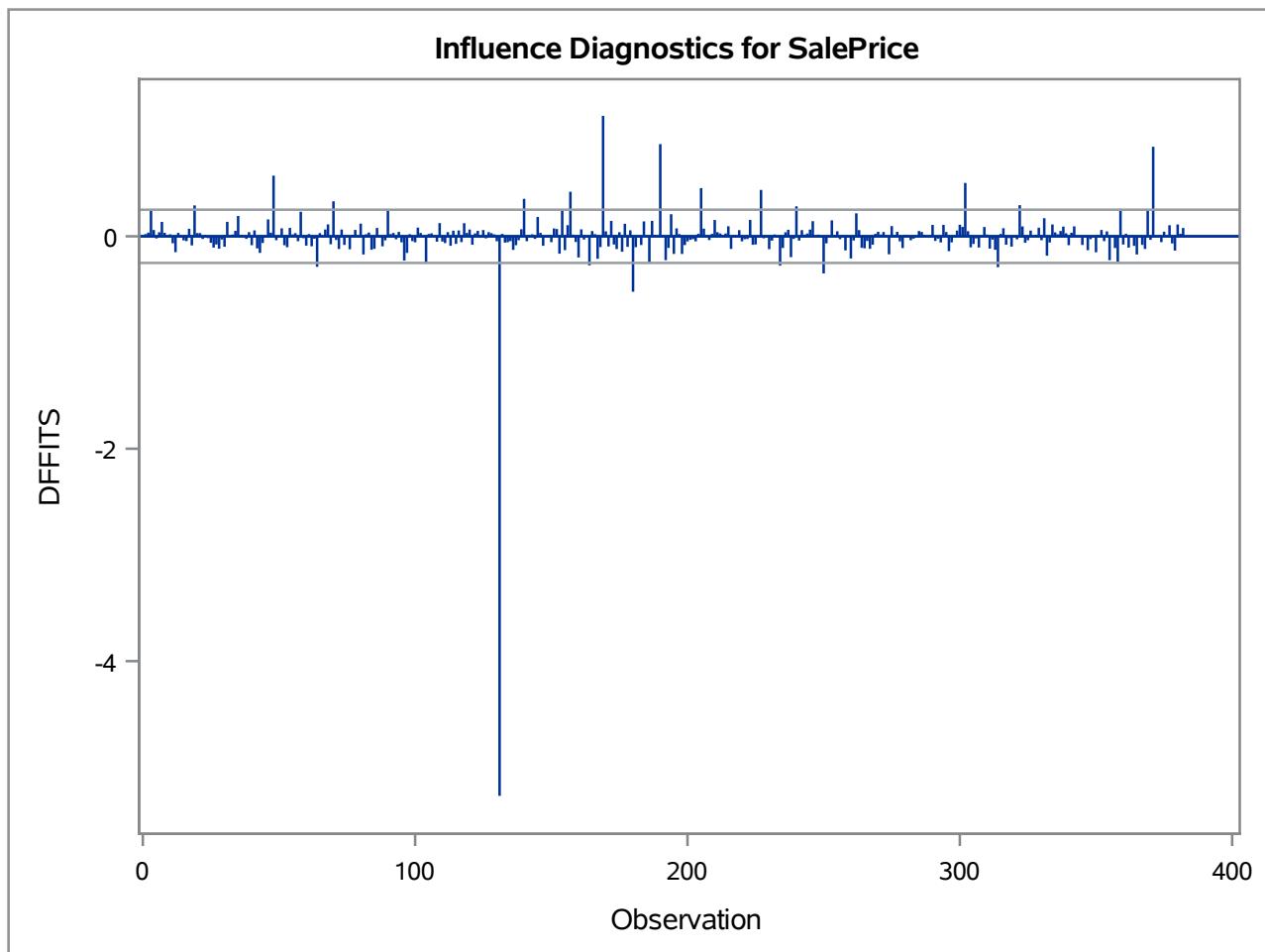
Linear-Linear MLR with Dummy and Interactions w/o Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



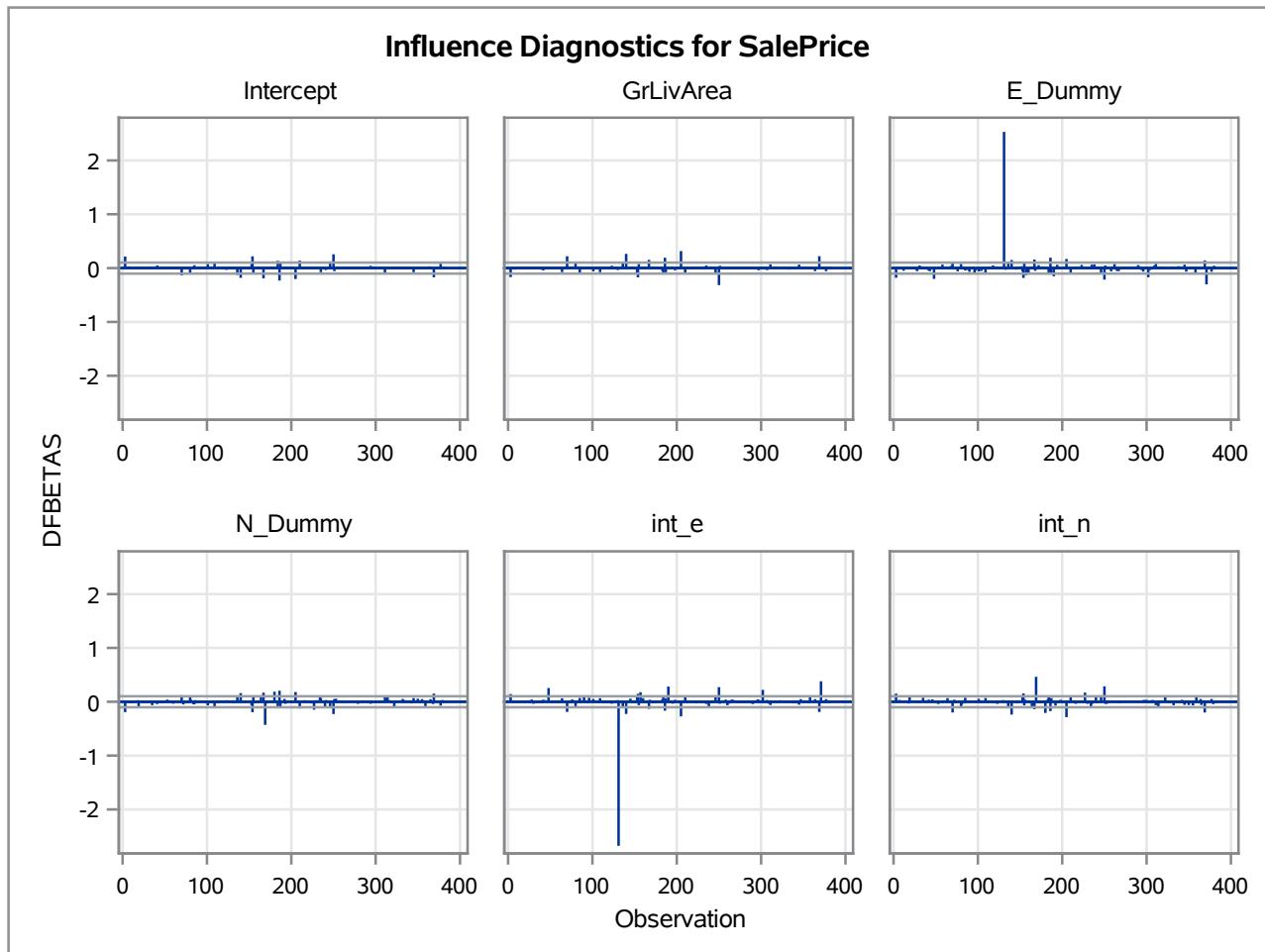
Linear-Linear MLR with Dummy and Interactions w/o Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



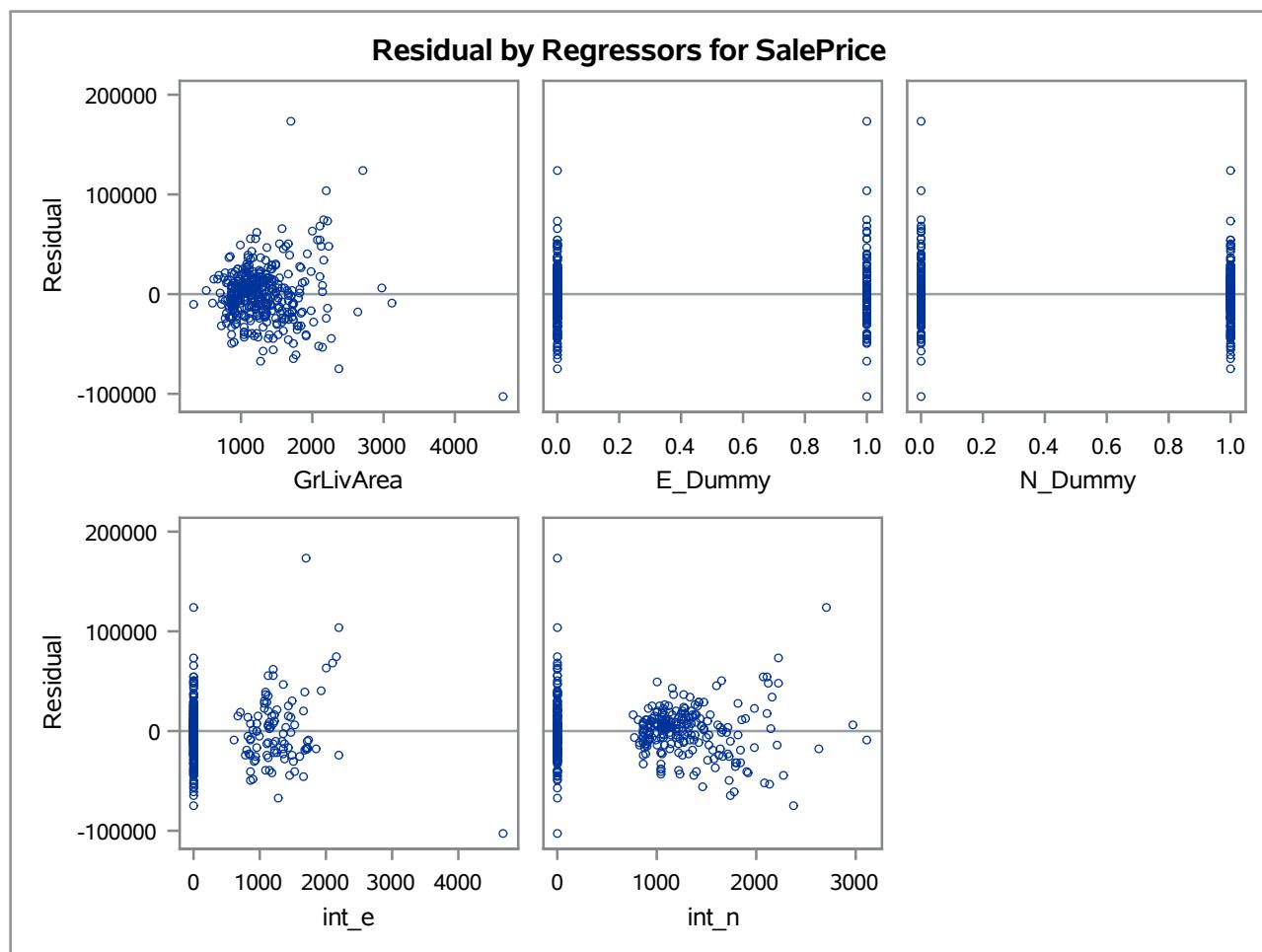
Linear-Linear MLR with Dummy and Interactions w/o Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



Linear-Linear MLR with Dummy and Interactions w/o Influential Point 1299

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



Log-Linear MLR with Dummy and Interactions

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

Number of Observations Read	383
Number of Observations Used	383

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	13.31148	2.66230	65.79	<.0001
Error	377	15.25484	0.04046		
Corrected Total	382	28.56633			

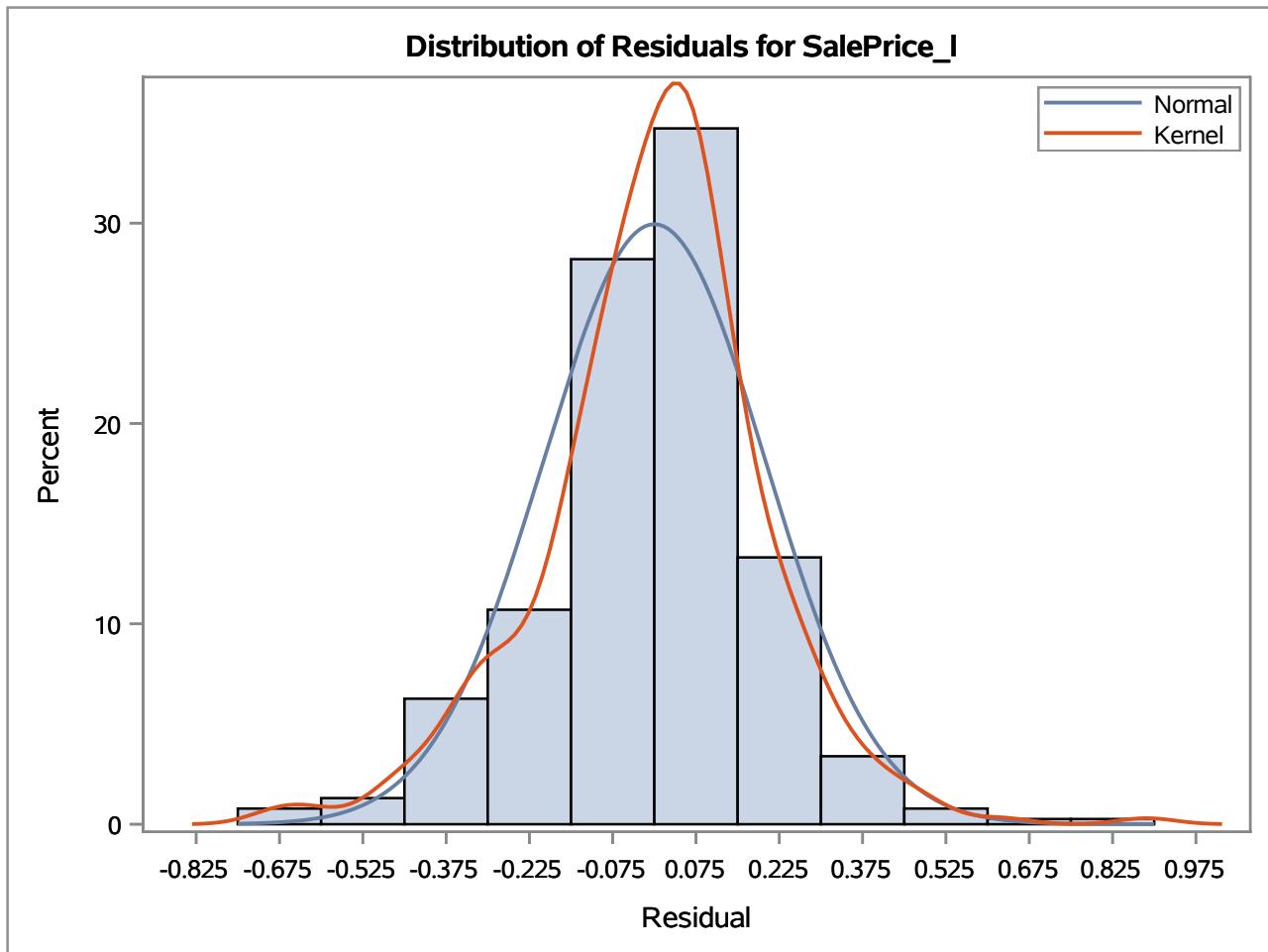
Root MSE	0.20116	R-Square	0.4660
Dependent Mean	11.79887	Adj R-Sq	0.4589
Coeff Var	1.70488		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	10.79159	0.08702	124.02	<.0001
GrLivArea	1	0.00073822	0.00006892	10.71	<.0001
E_Dummy	1	0.63035	0.09842	6.40	<.0001
N_Dummy	1	0.65175	0.09780	6.66	<.0001
int_e	1	-0.00052153	0.00007551	-6.91	<.0001
int_n	1	-0.00041410	0.00007620	-5.43	<.0001

Log-Linear MLR with Dummy and Interactions**The REG Procedure**

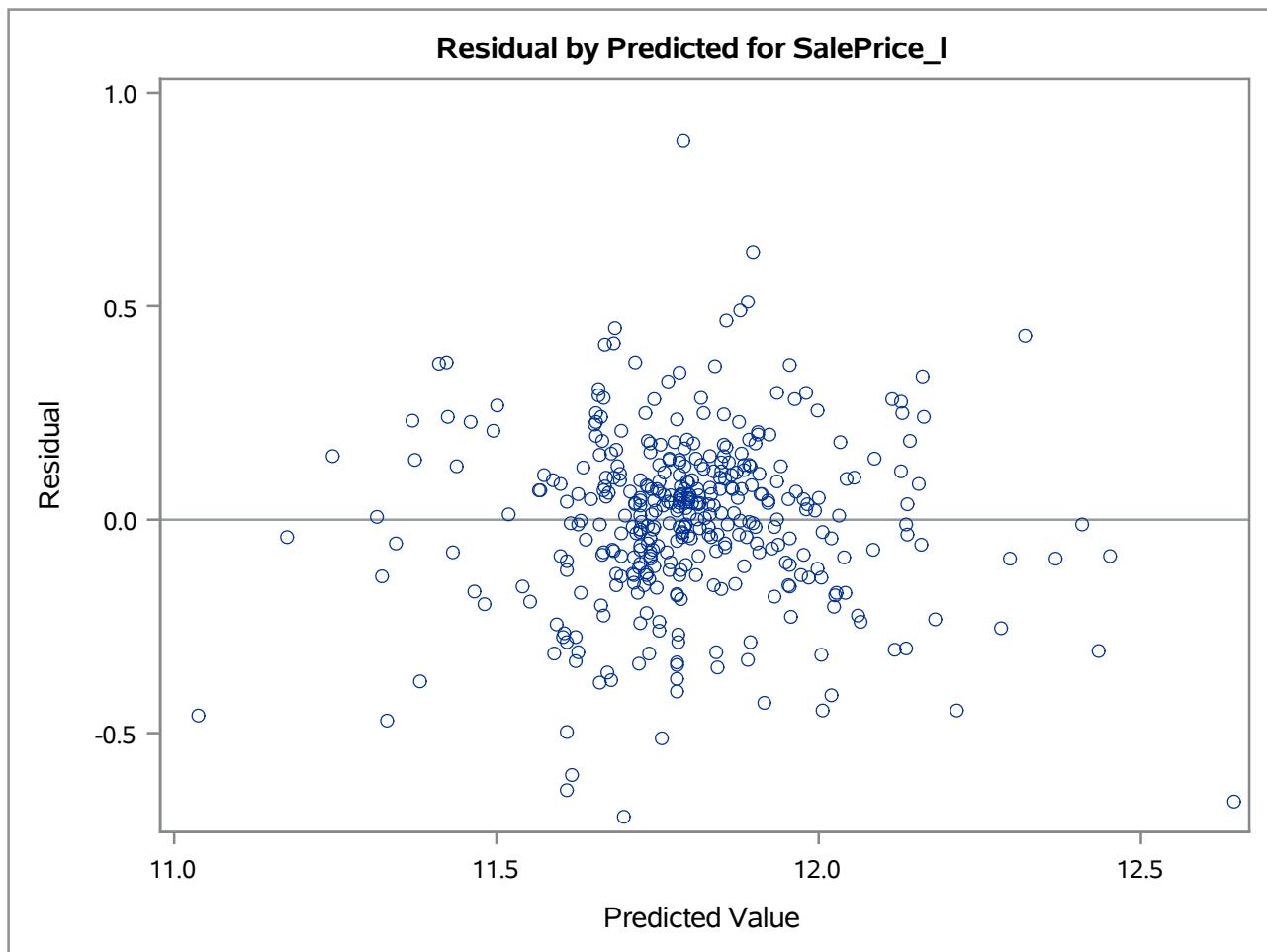
Model: MODEL1

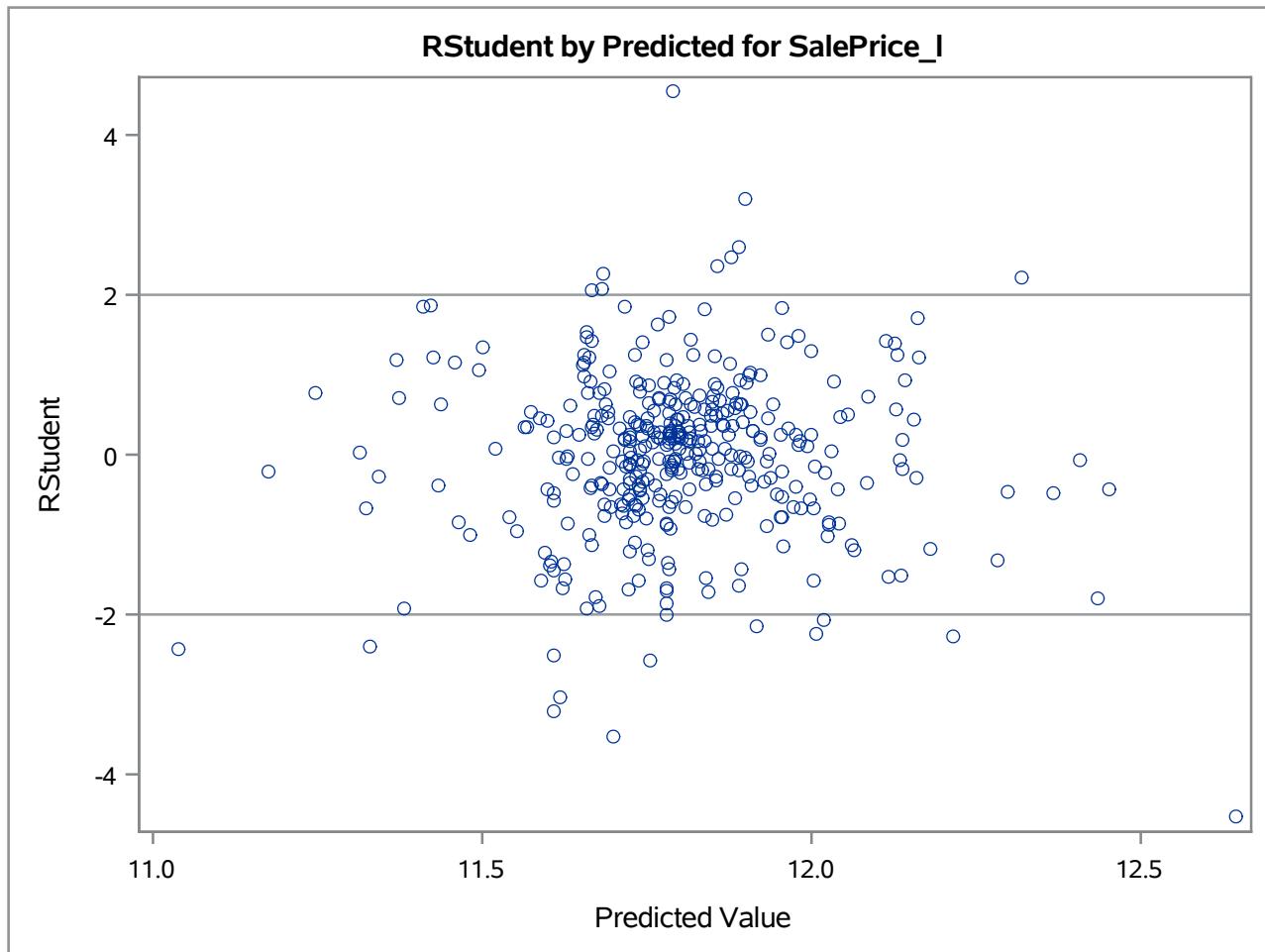
Dependent Variable: SalePrice_I

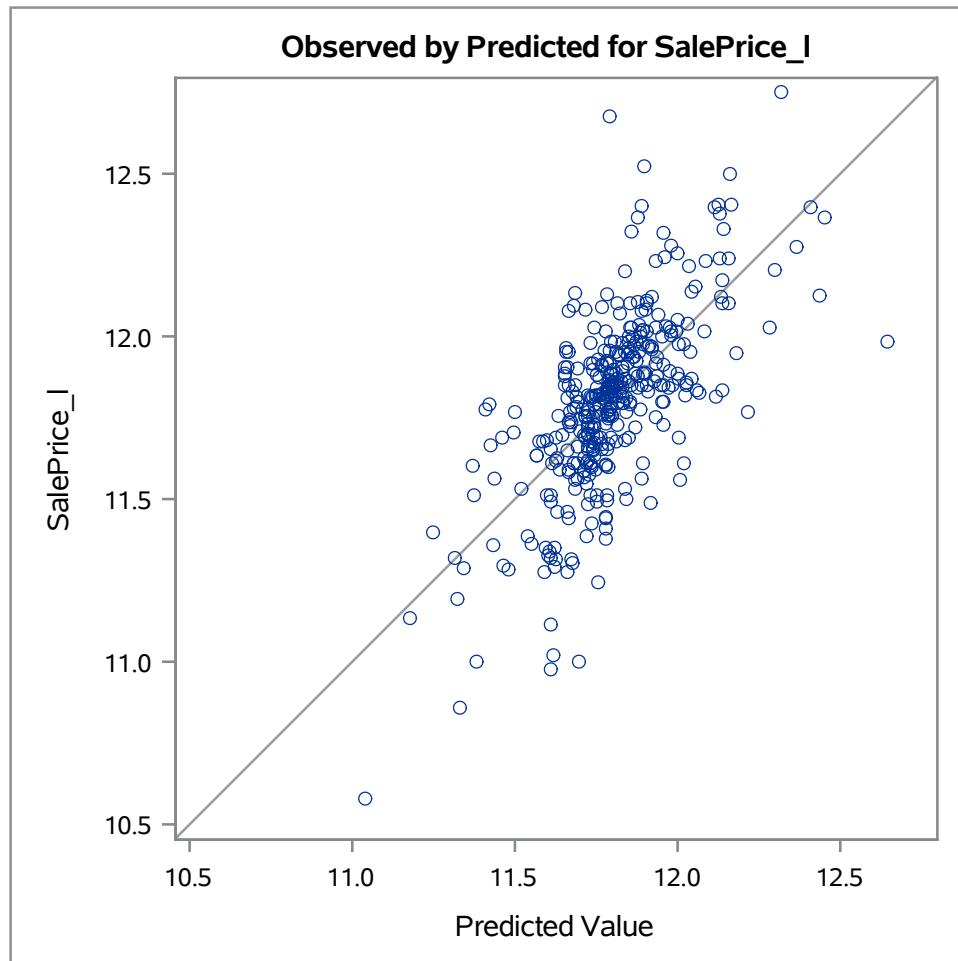


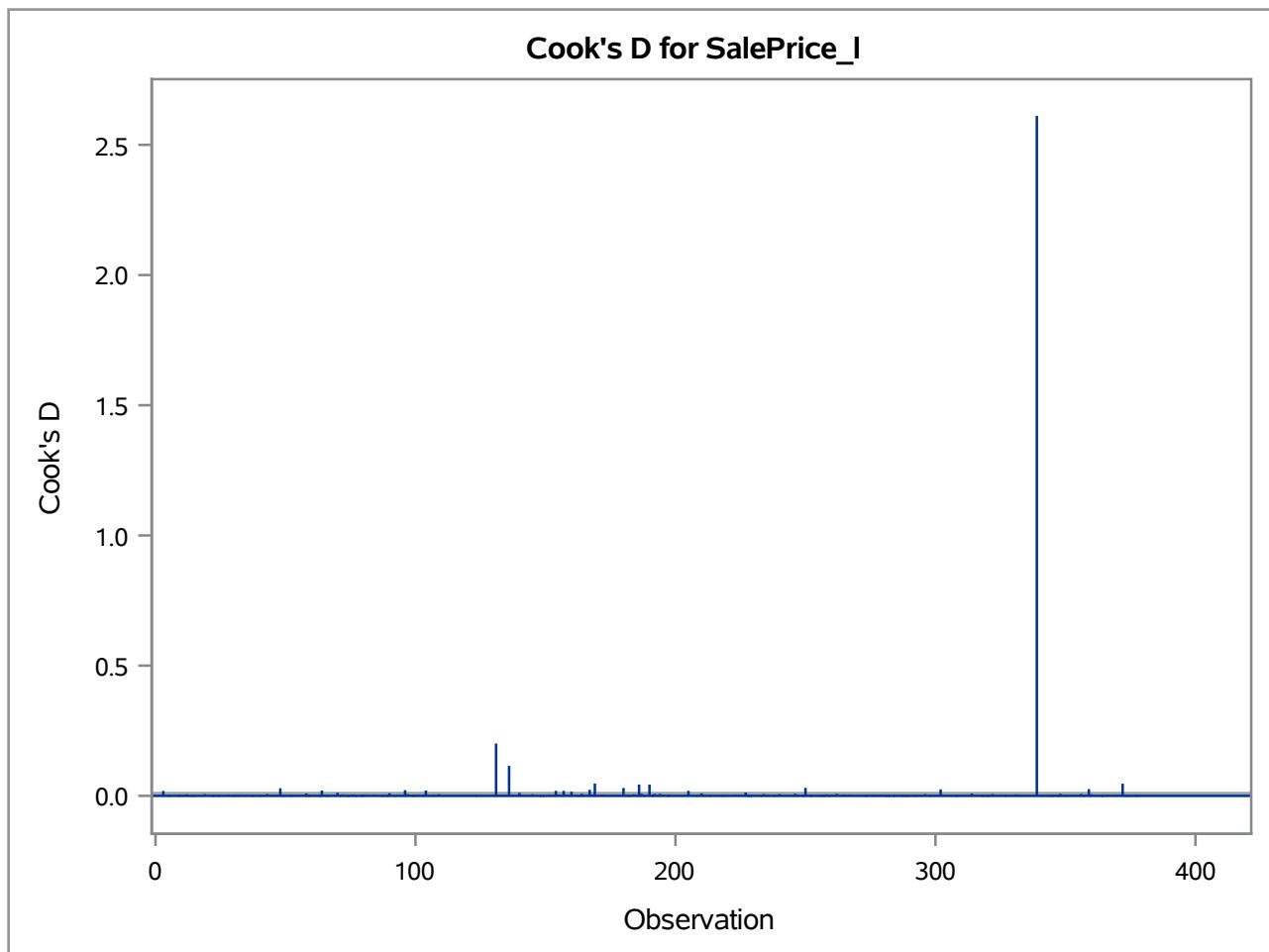
Log-Linear MLR with Dummy and Interactions

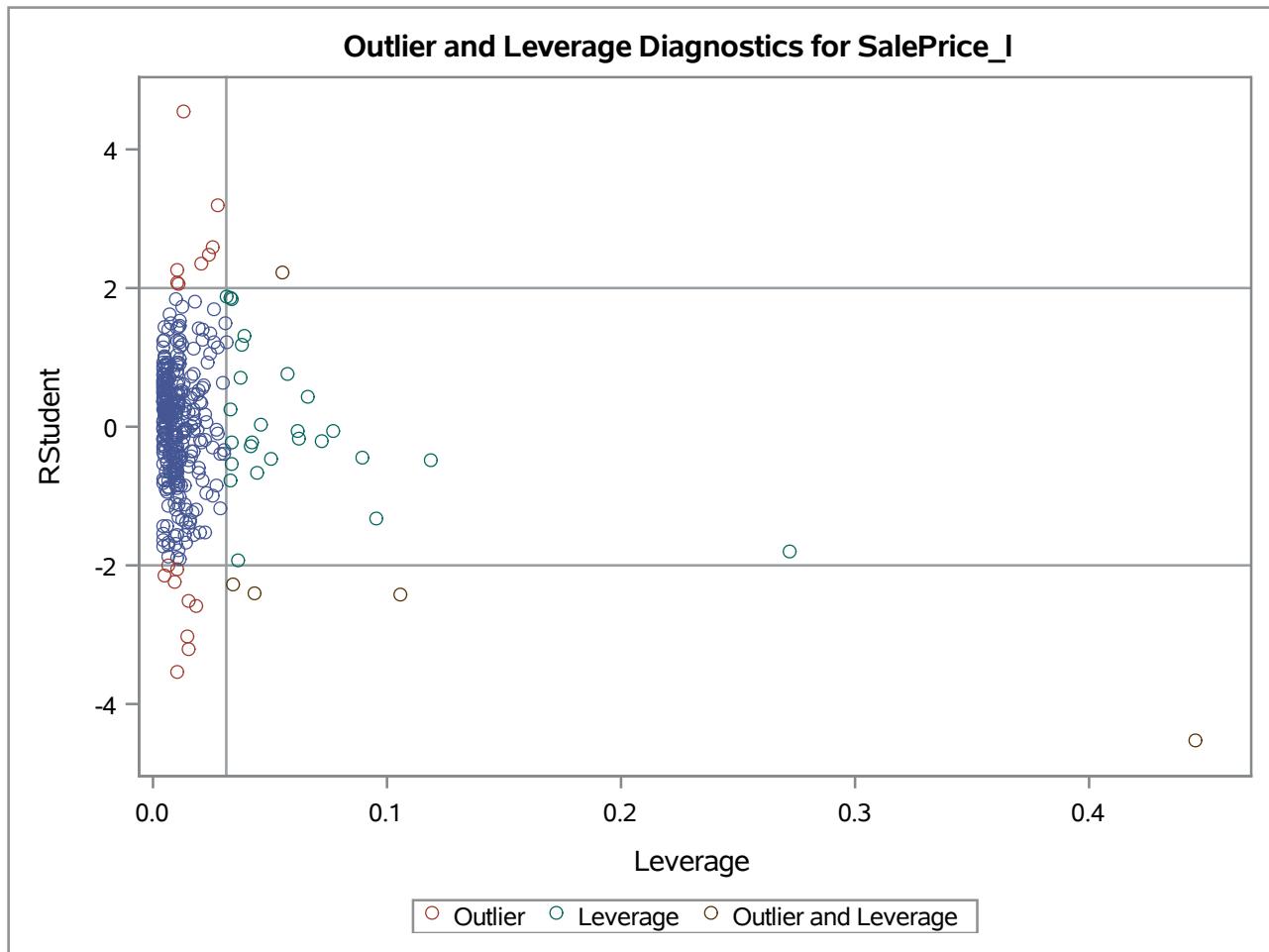
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



Log-Linear MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

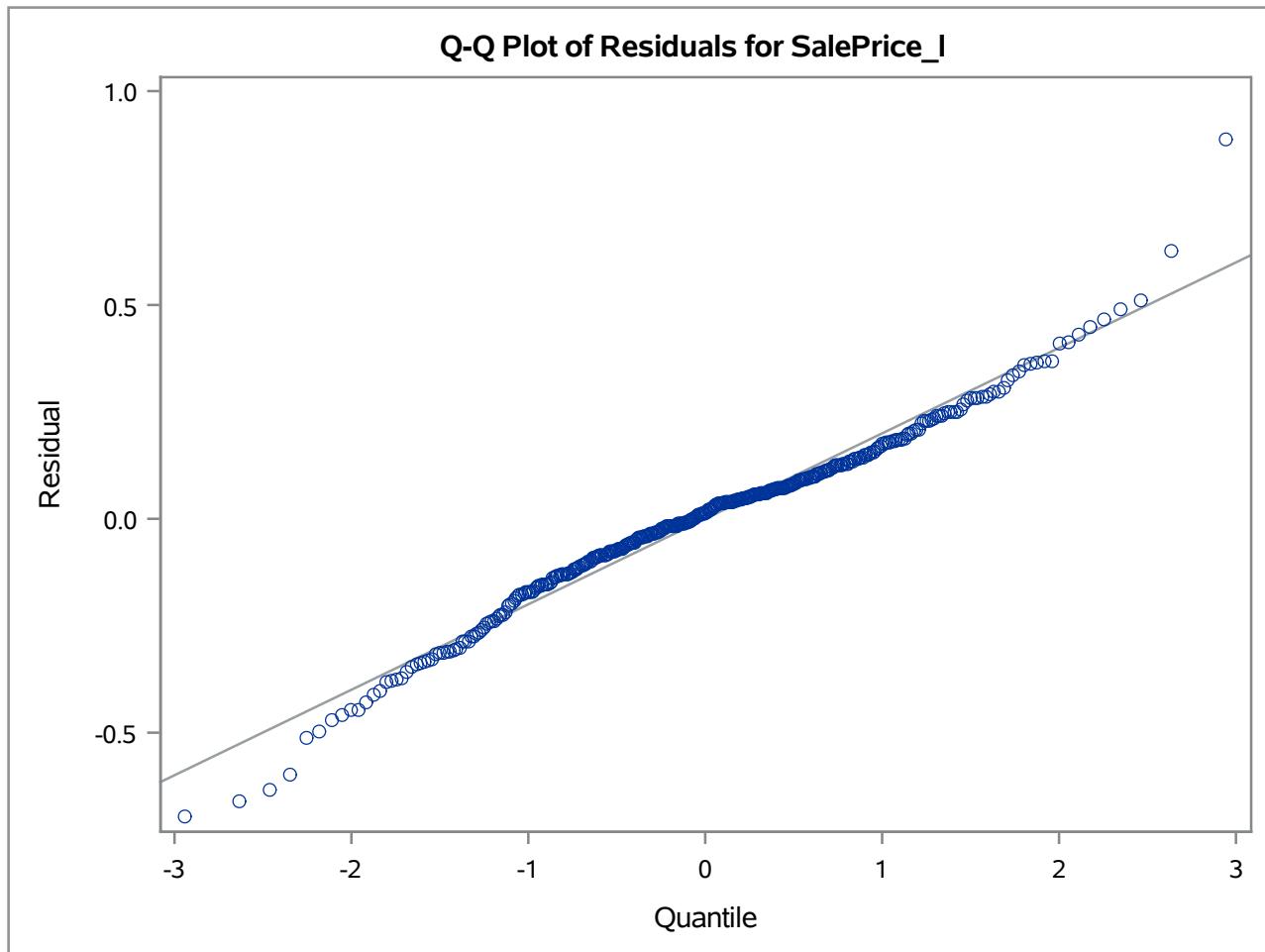
Log-Linear MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Log-Linear MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Log-Linear MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Log-Linear MLR with Dummy and Interactions

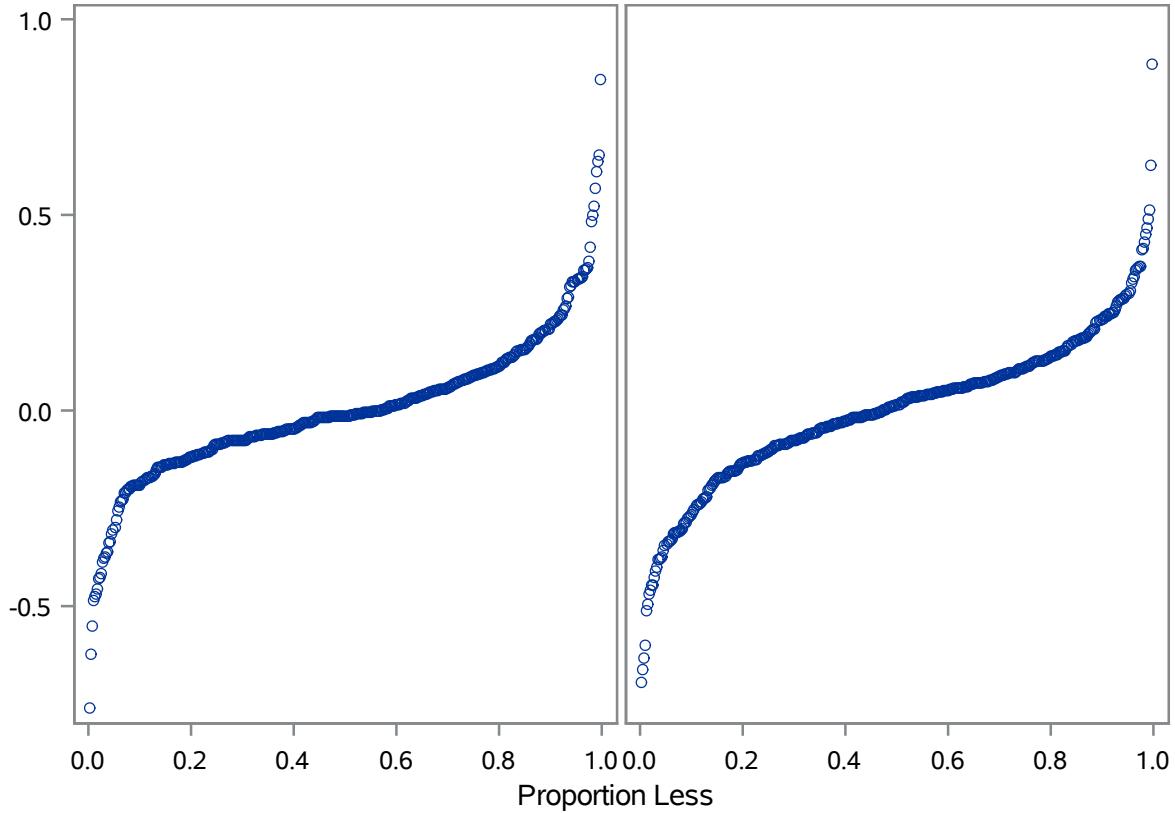
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

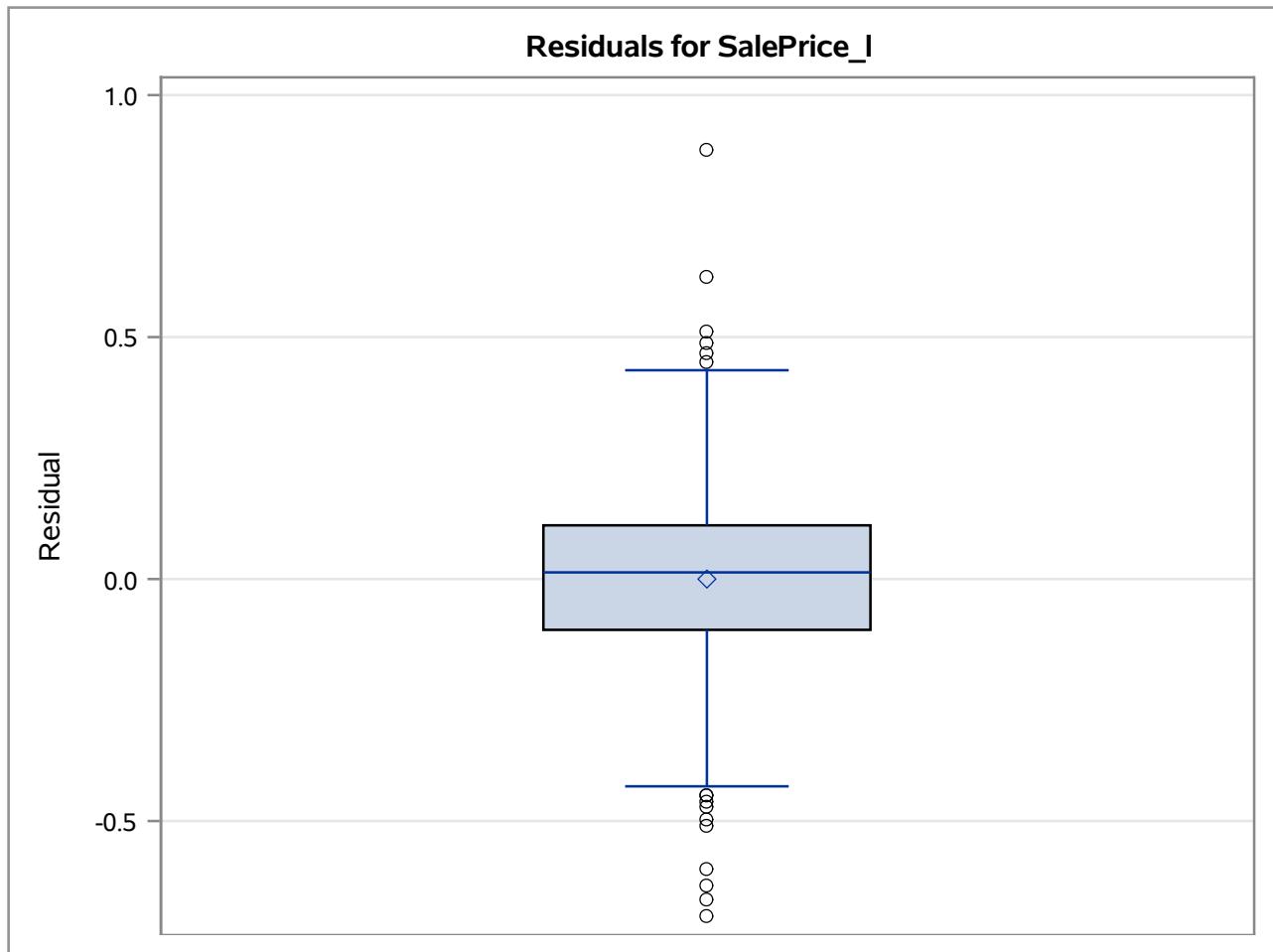


Log-Linear MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I****Residual-Fit Spread Plot for SalePrice_I**

Fit-Mean

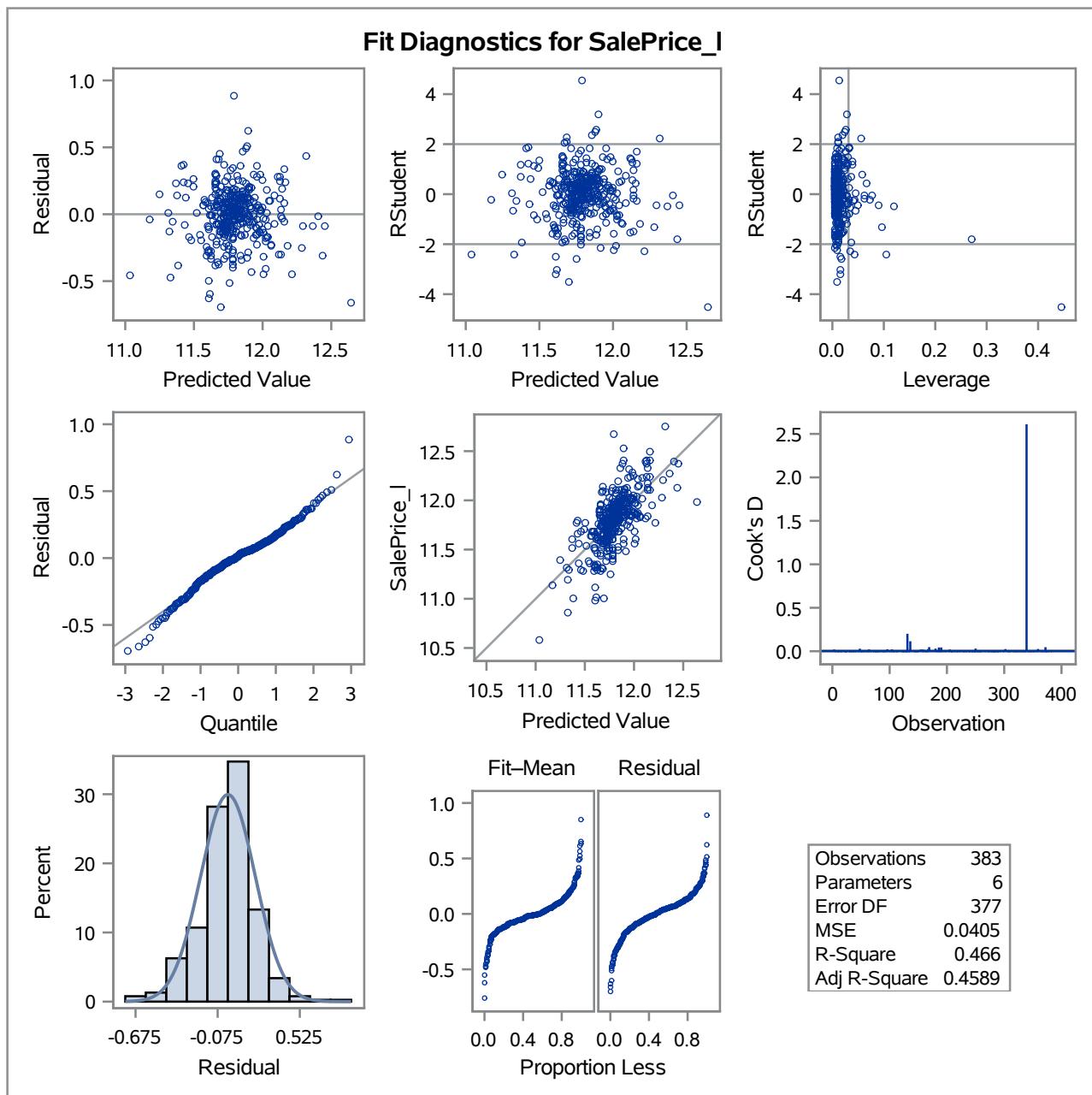
Residual

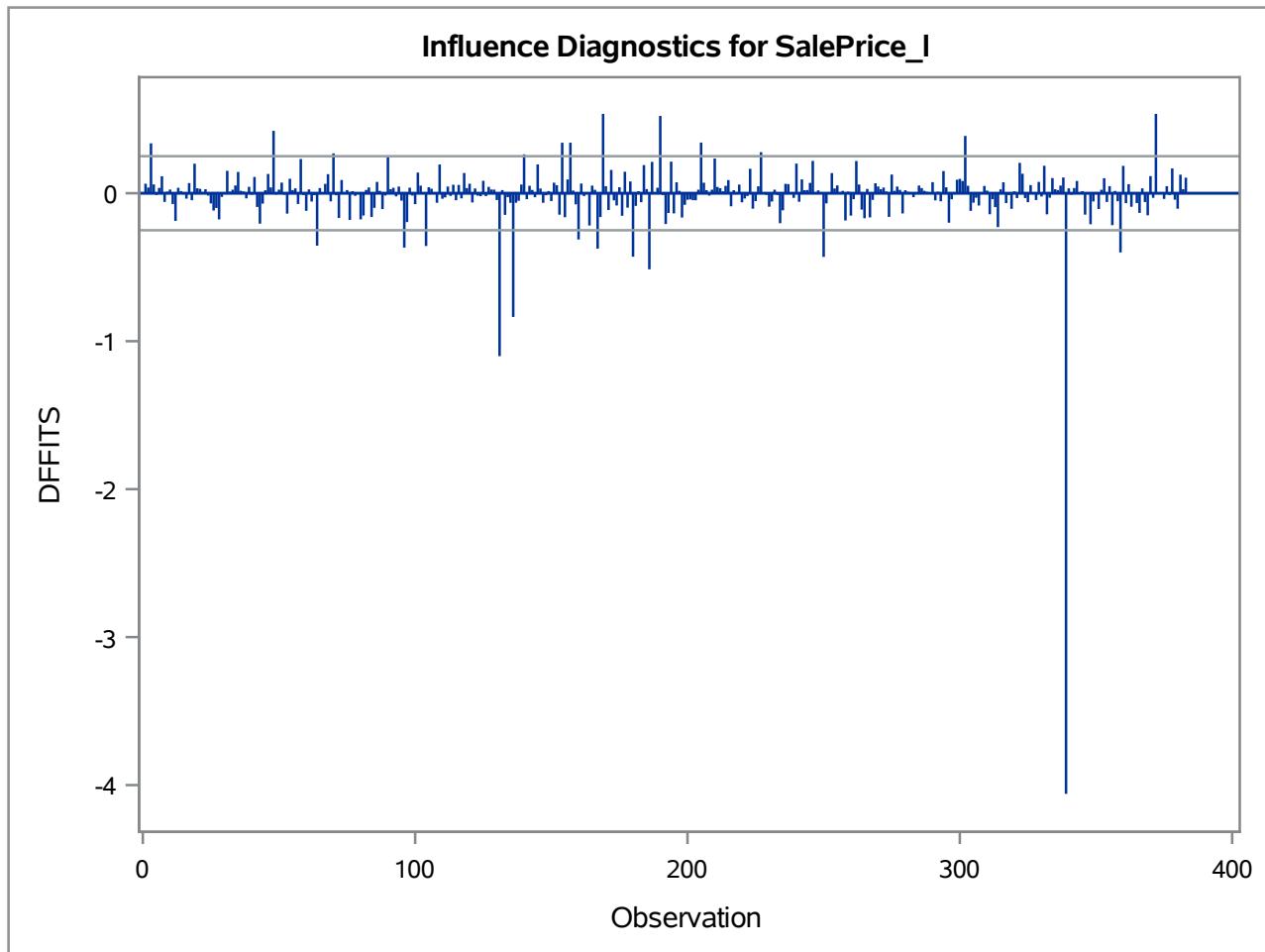


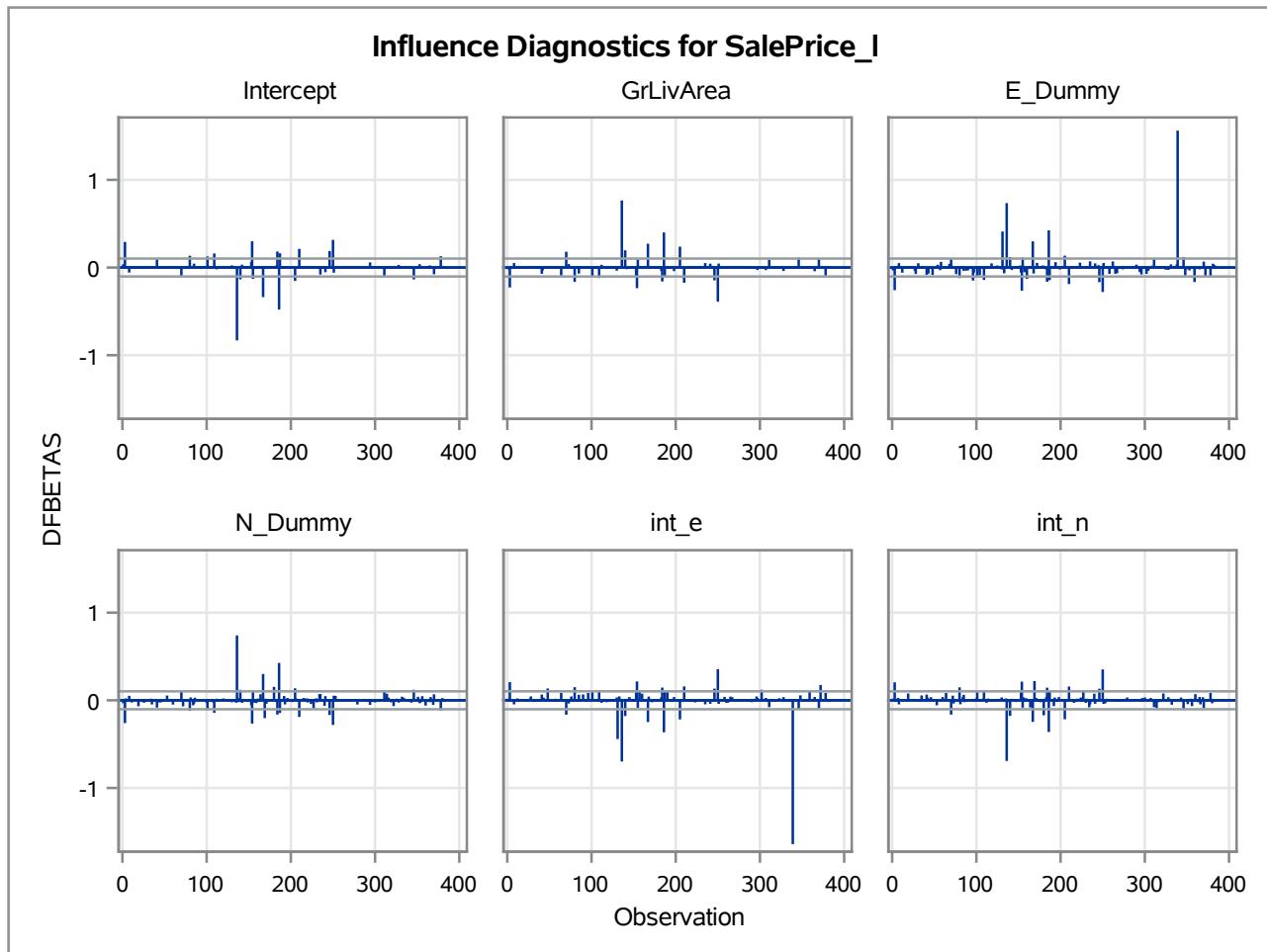
Log-Linear MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

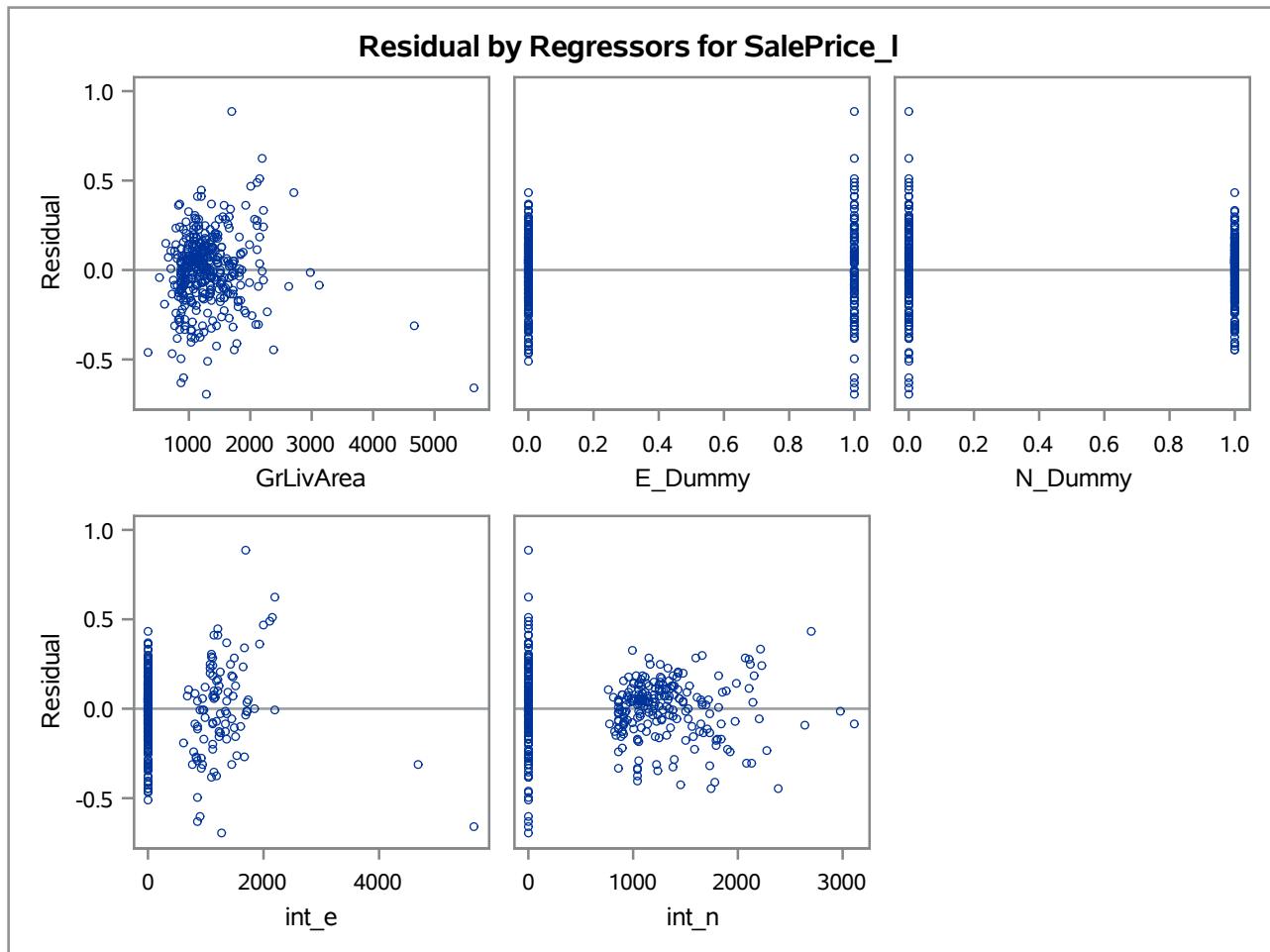
Log-Linear MLR with Dummy and Interactions

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



Log-Linear MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Log-Linear MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Log-Linear MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Linear-Log MLR with Dummy and Interactions

The REG Procedure

Model: MODEL1

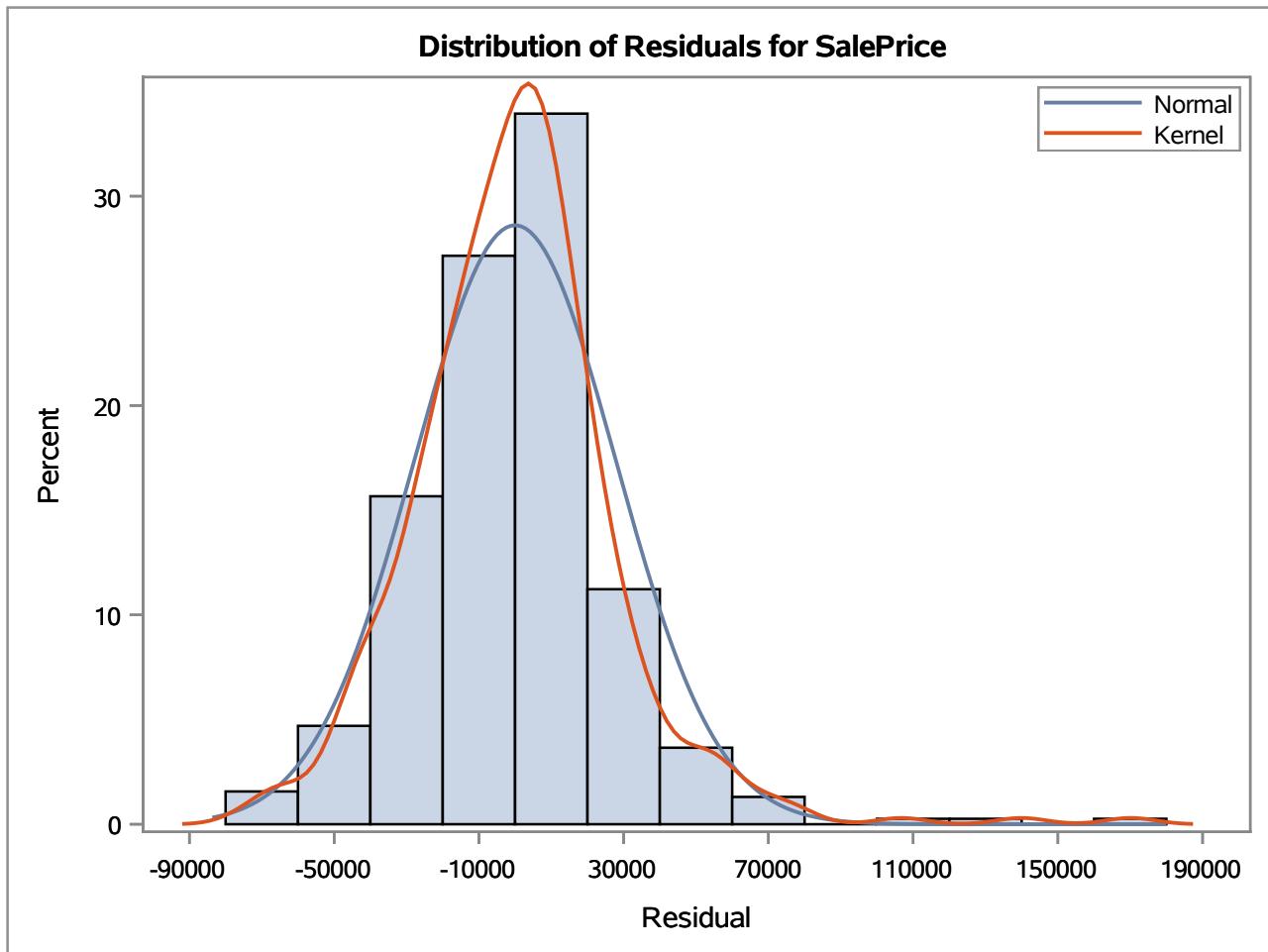
Dependent Variable: SalePrice

Number of Observations Read	383
Number of Observations Used	383

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	2.590608E11	51812155999	65.75	<.0001
Error	377	2.970913E11	788040713		
Corrected Total	382	5.561521E11			

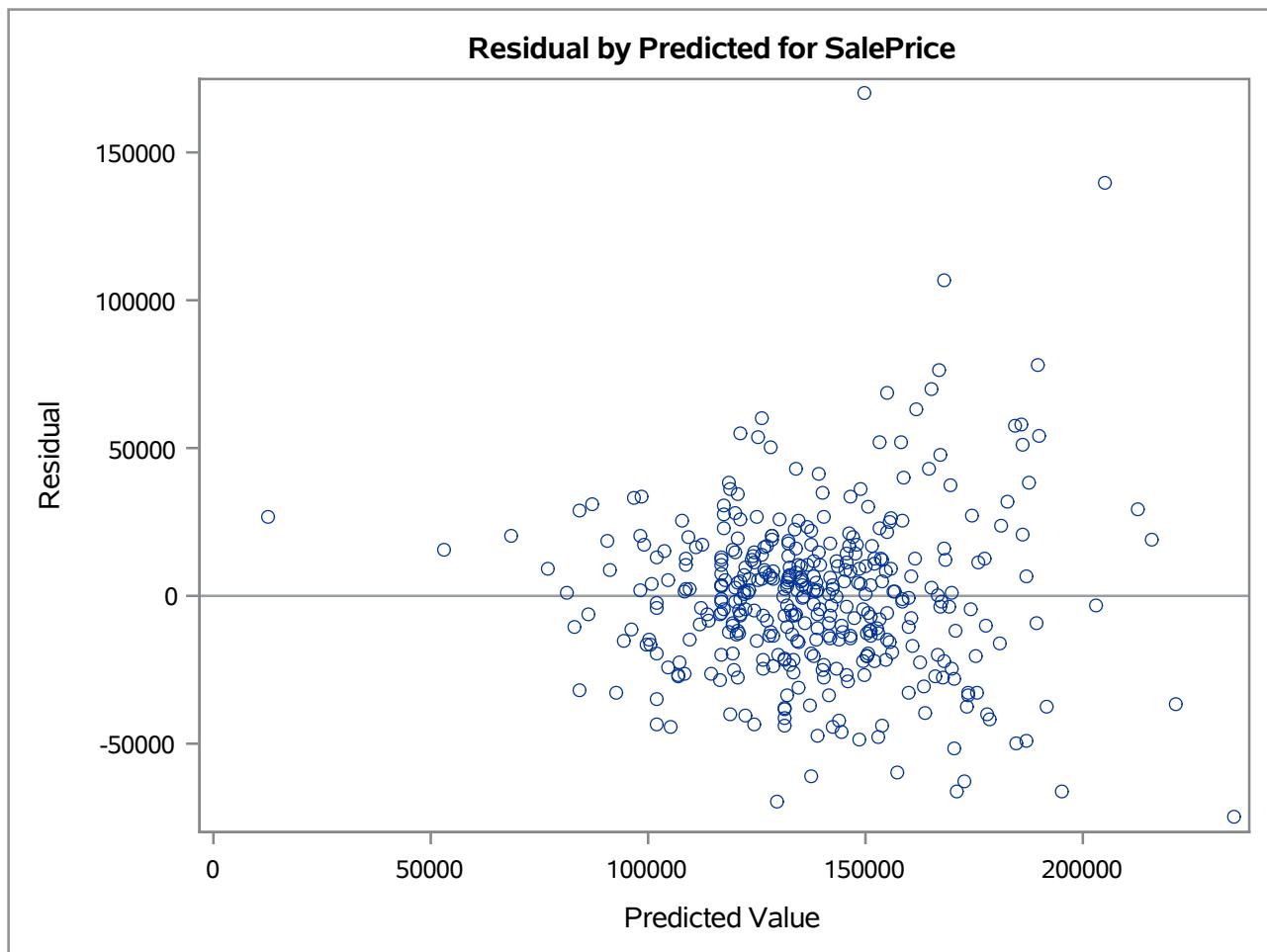
Root MSE	28072	R-Square	0.4658
Dependent Mean	138063	Adj R-Sq	0.4587
Coeff Var	20.33287		

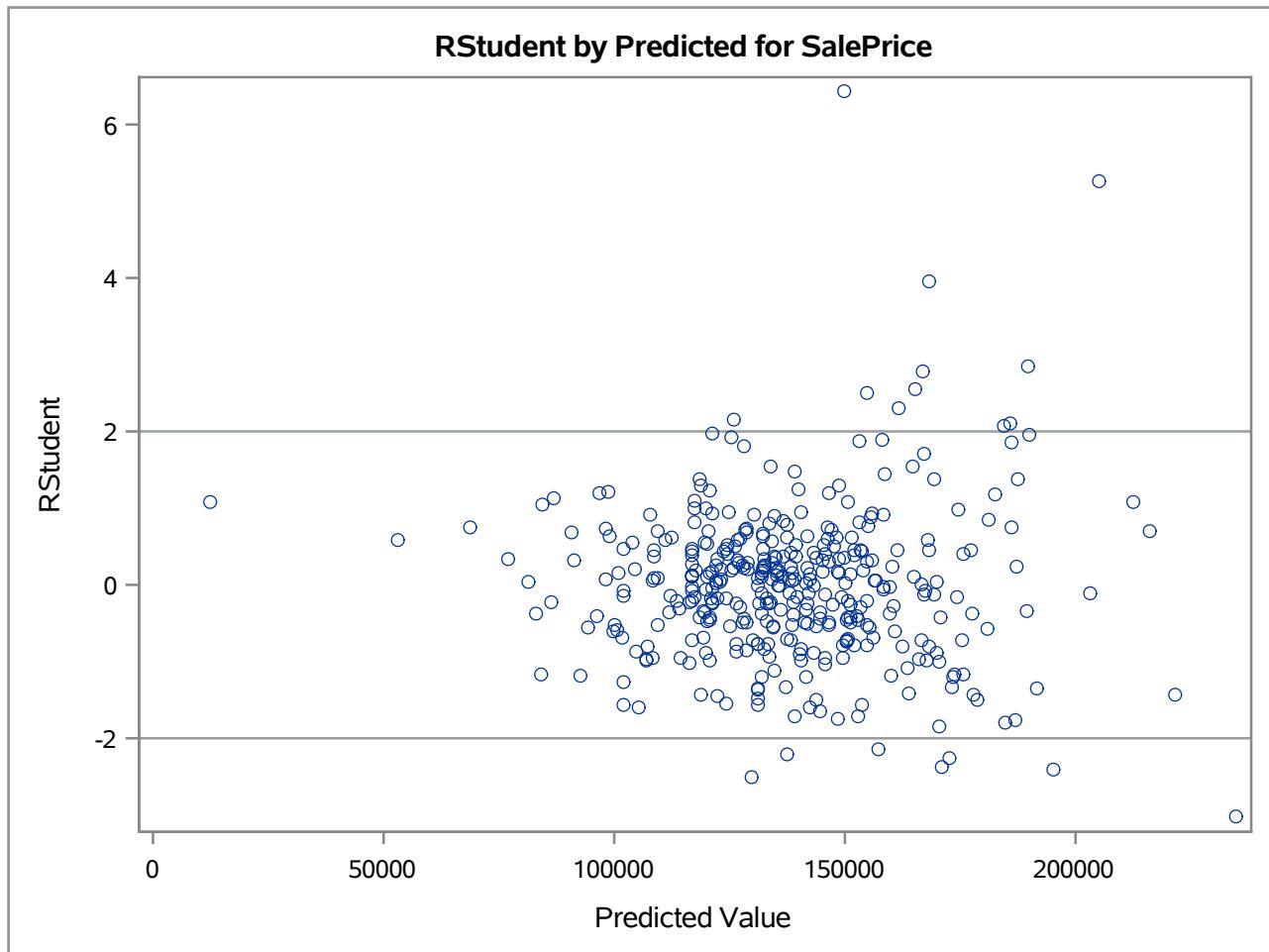
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-520838	73669	-7.07	<.0001
GrLlvArea_I	1	91771	10458	8.78	<.0001
E_Dummy	1	144770	94300	1.54	0.1256
N_Dummy	1	115364	87582	1.32	0.1886
int_e_I	1	-21054	13317	-1.58	0.1147
int_n_I	1	-14507	12384	-1.17	0.2421

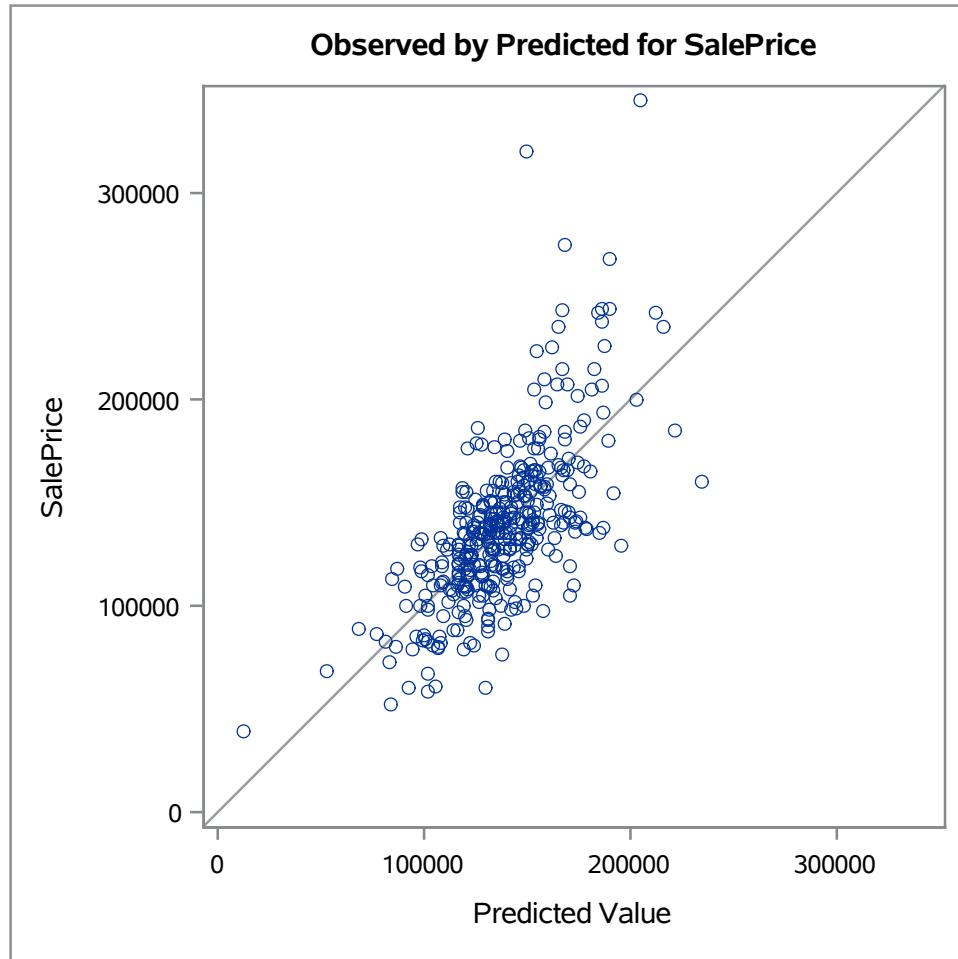
Linear-Log MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice**

Linear-Log MLR with Dummy and Interactions

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice

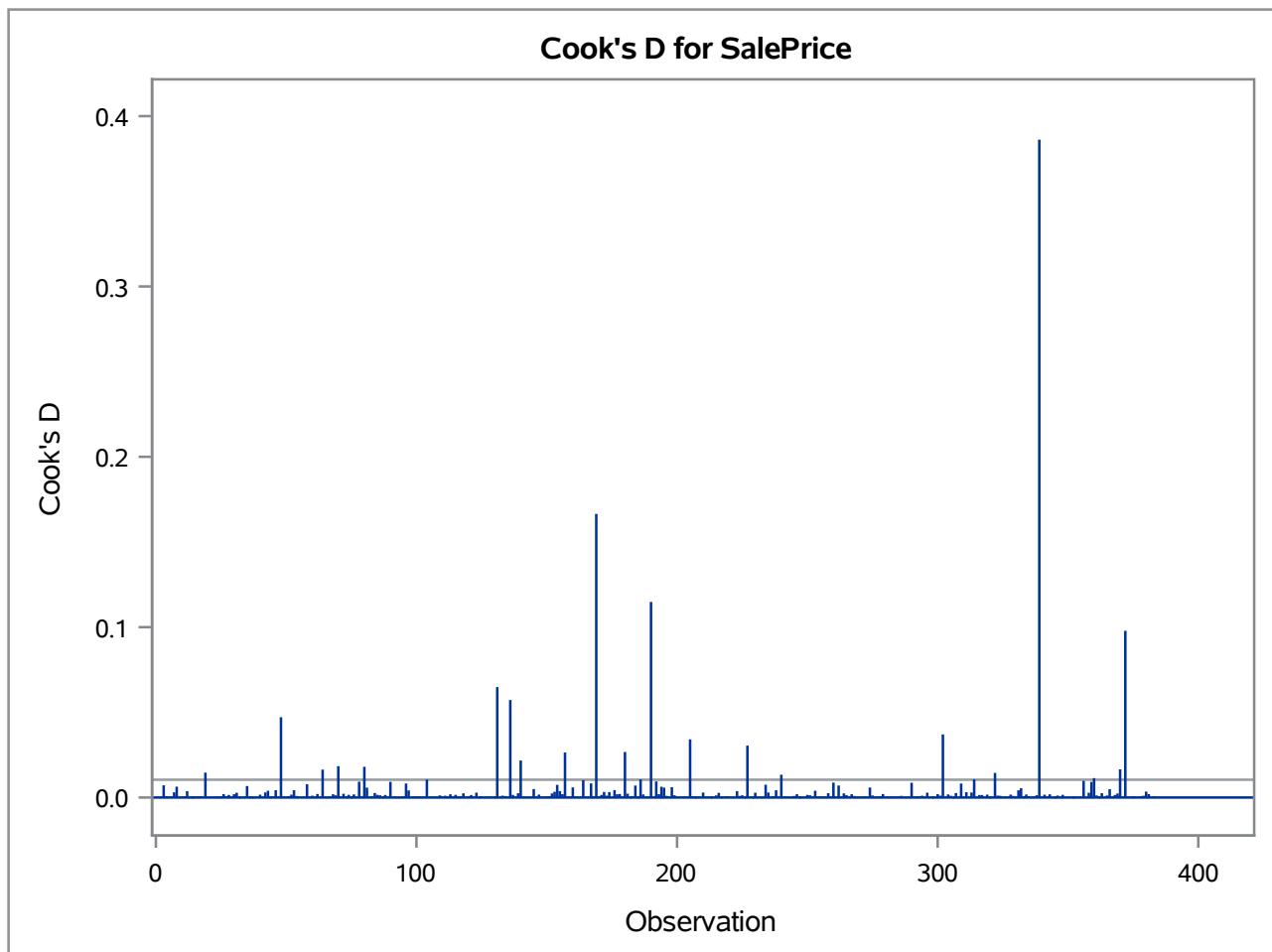


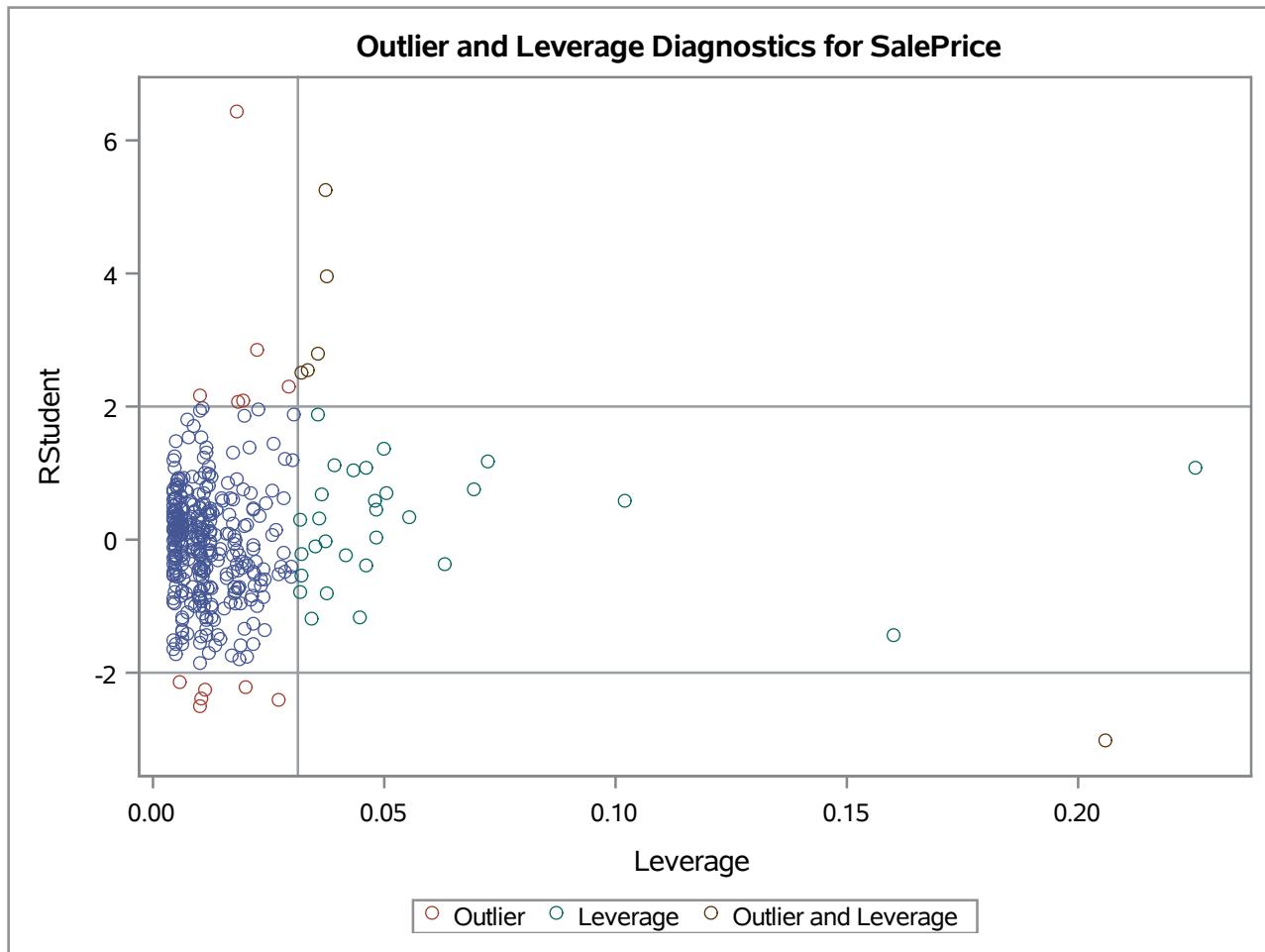
Linear-Log MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice**

Linear-Log MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice**

Linear-Log MLR with Dummy and Interactions

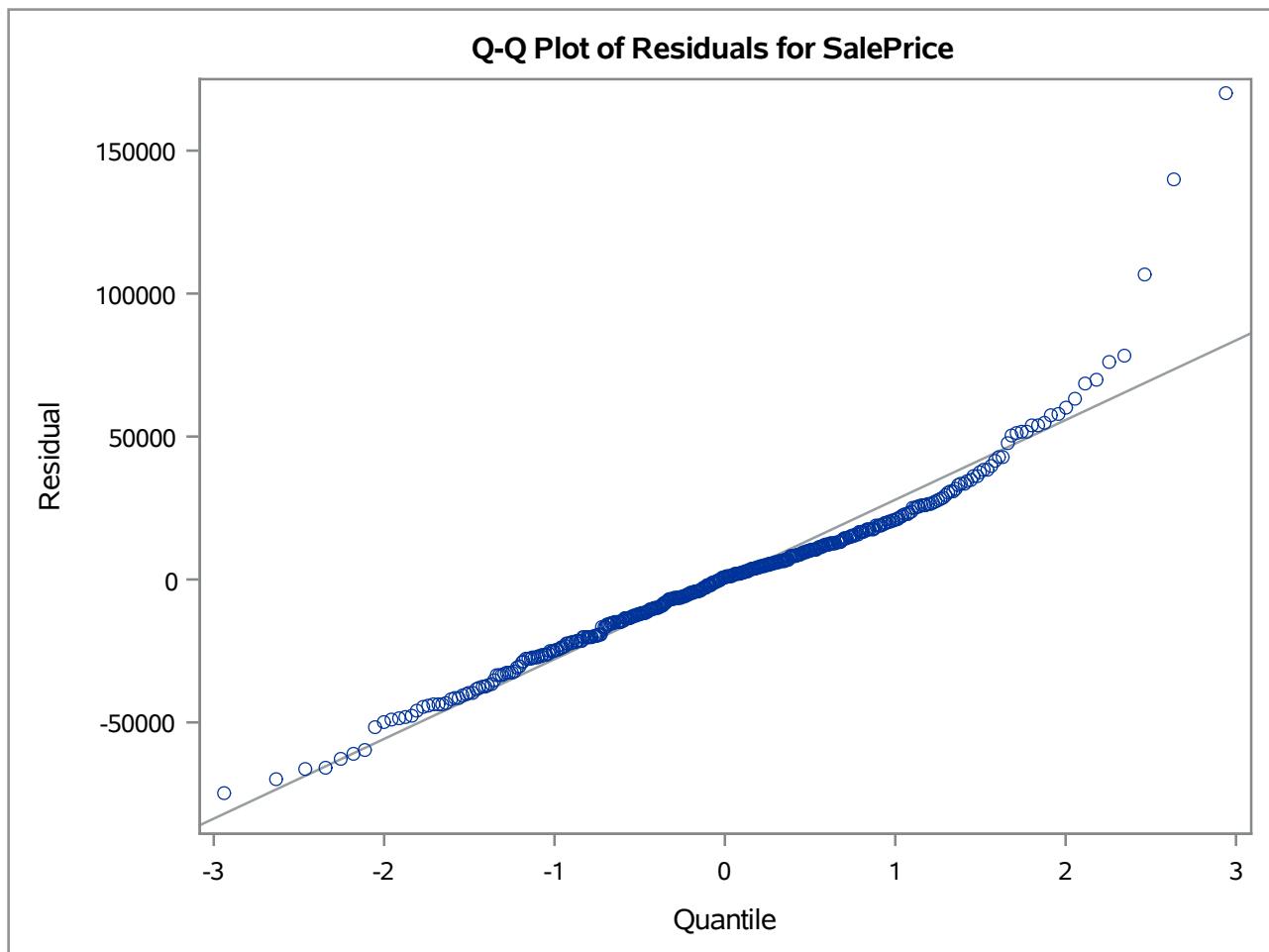
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice

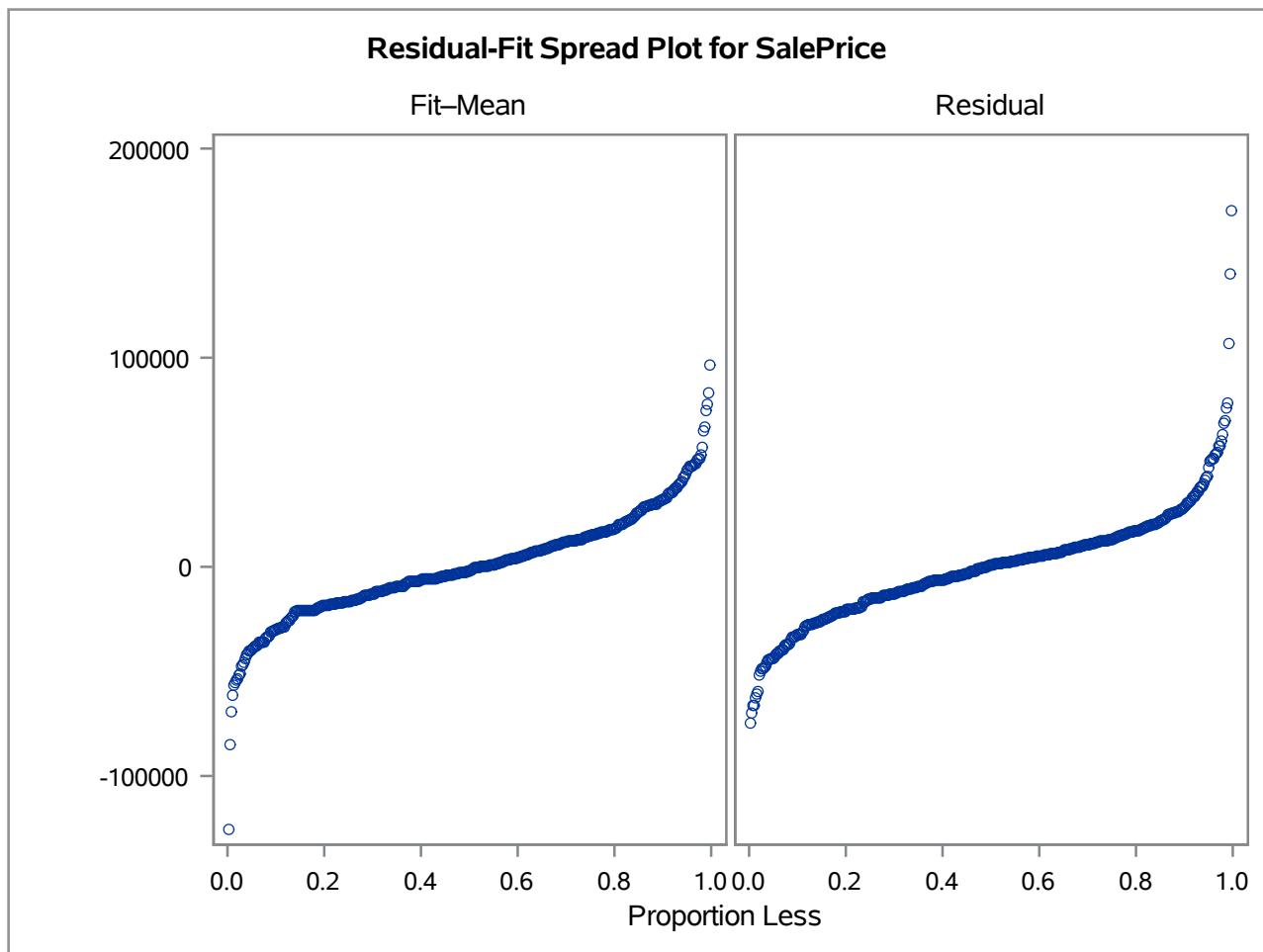


Linear-Log MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice**

Linear-Log MLR with Dummy and Interactions

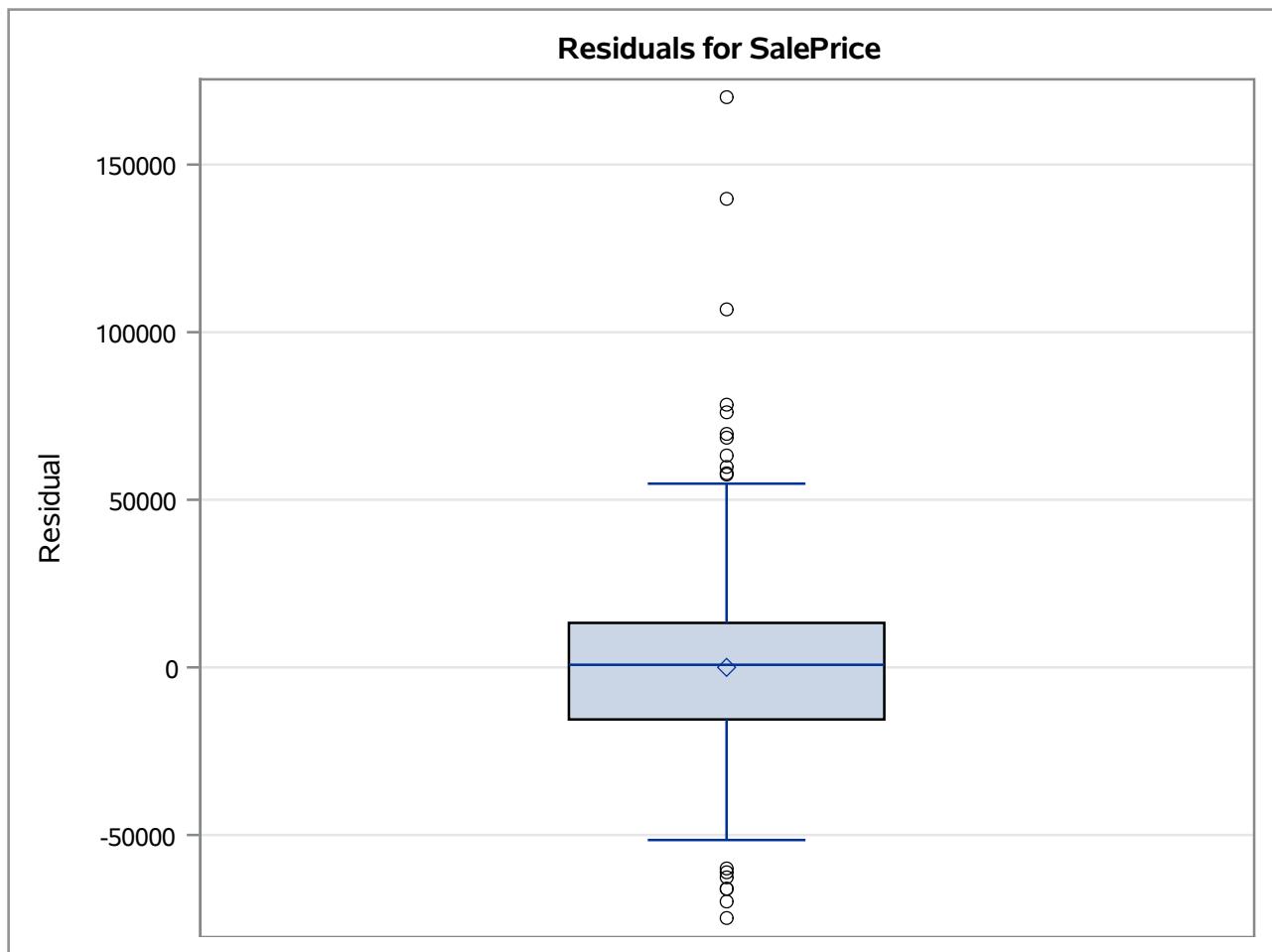
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice



Linear-Log MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice****Residual-Fit Spread Plot for SalePrice**

Linear-Log MLR with Dummy and Interactions

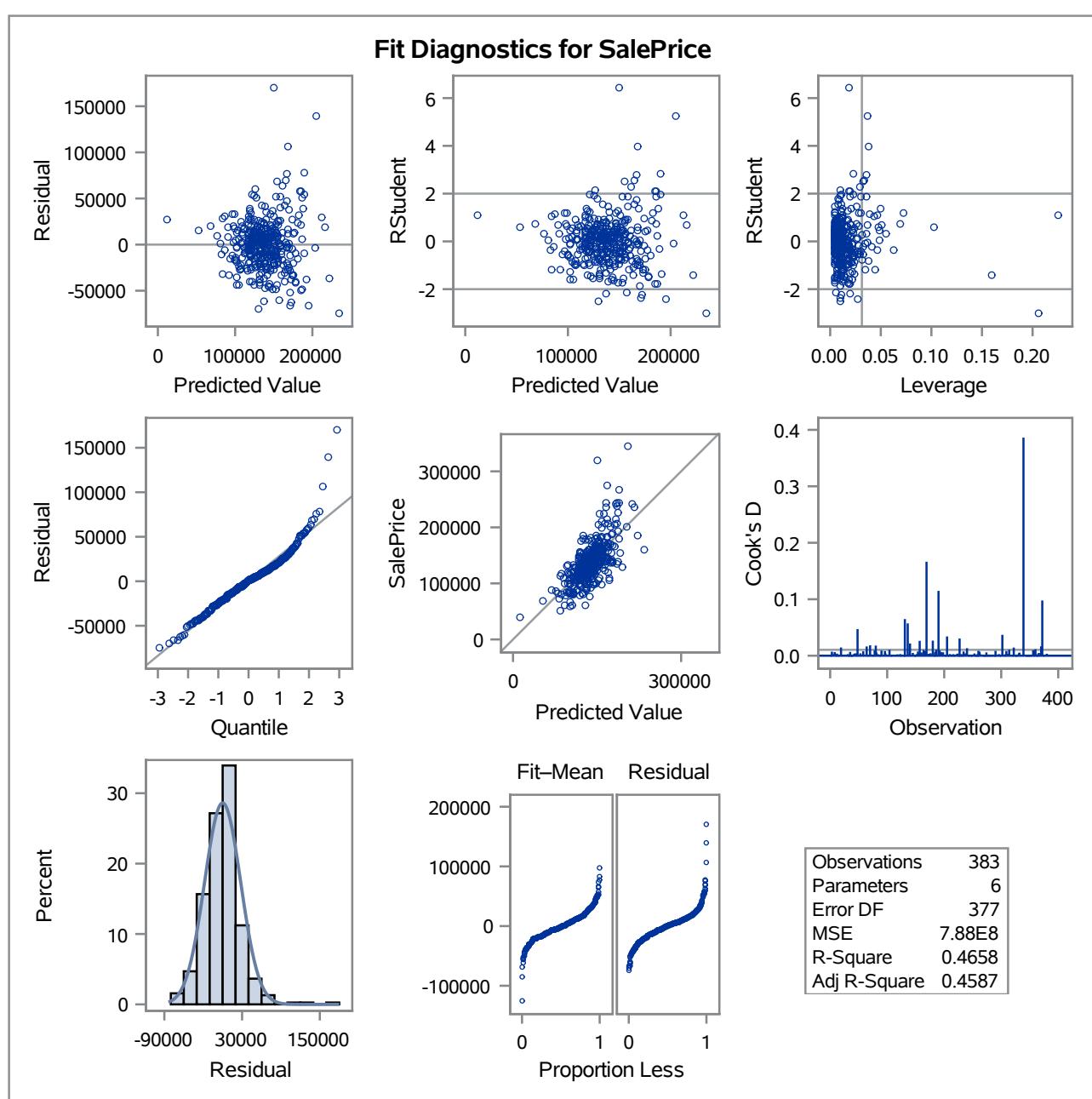
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice

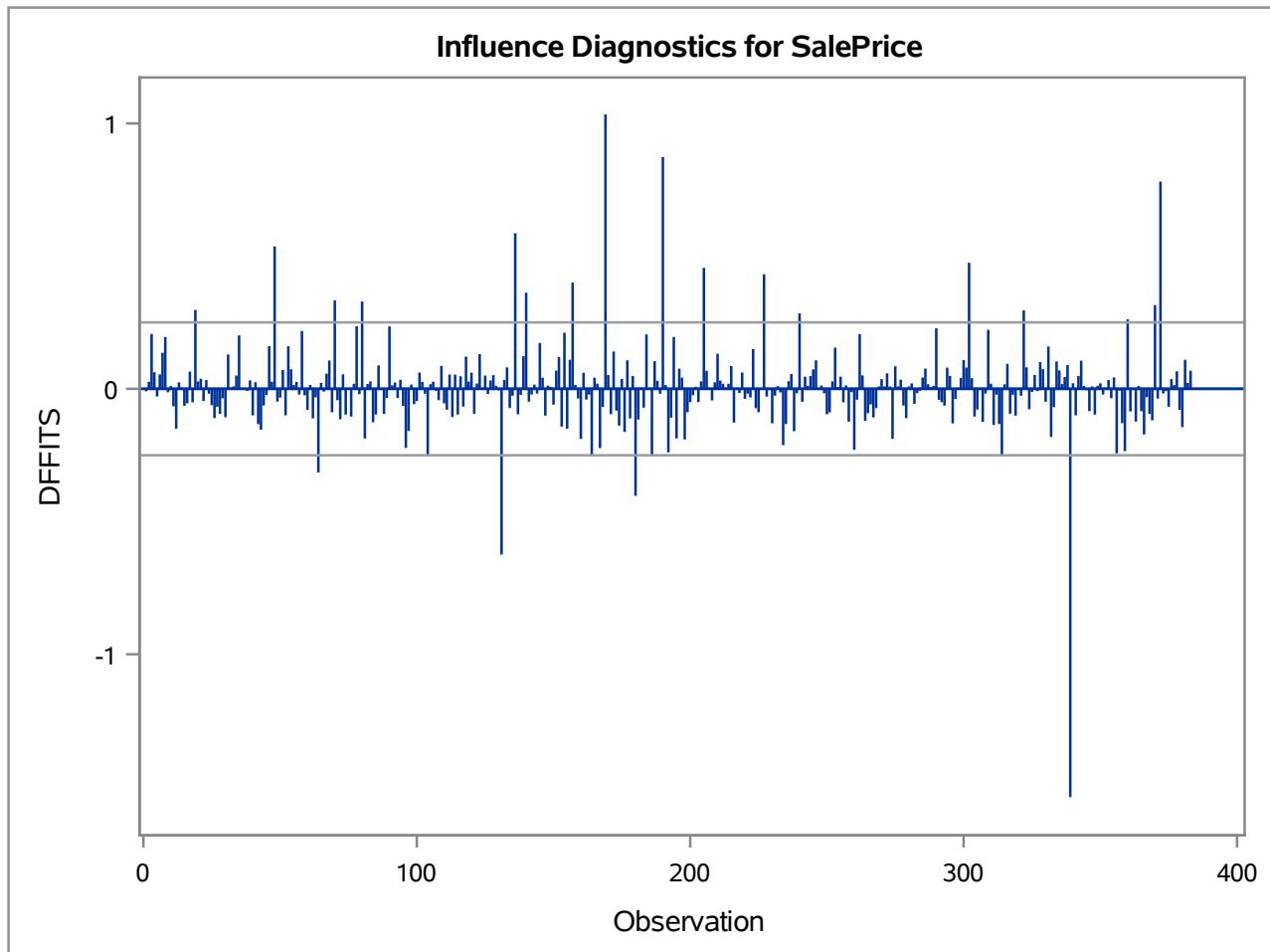


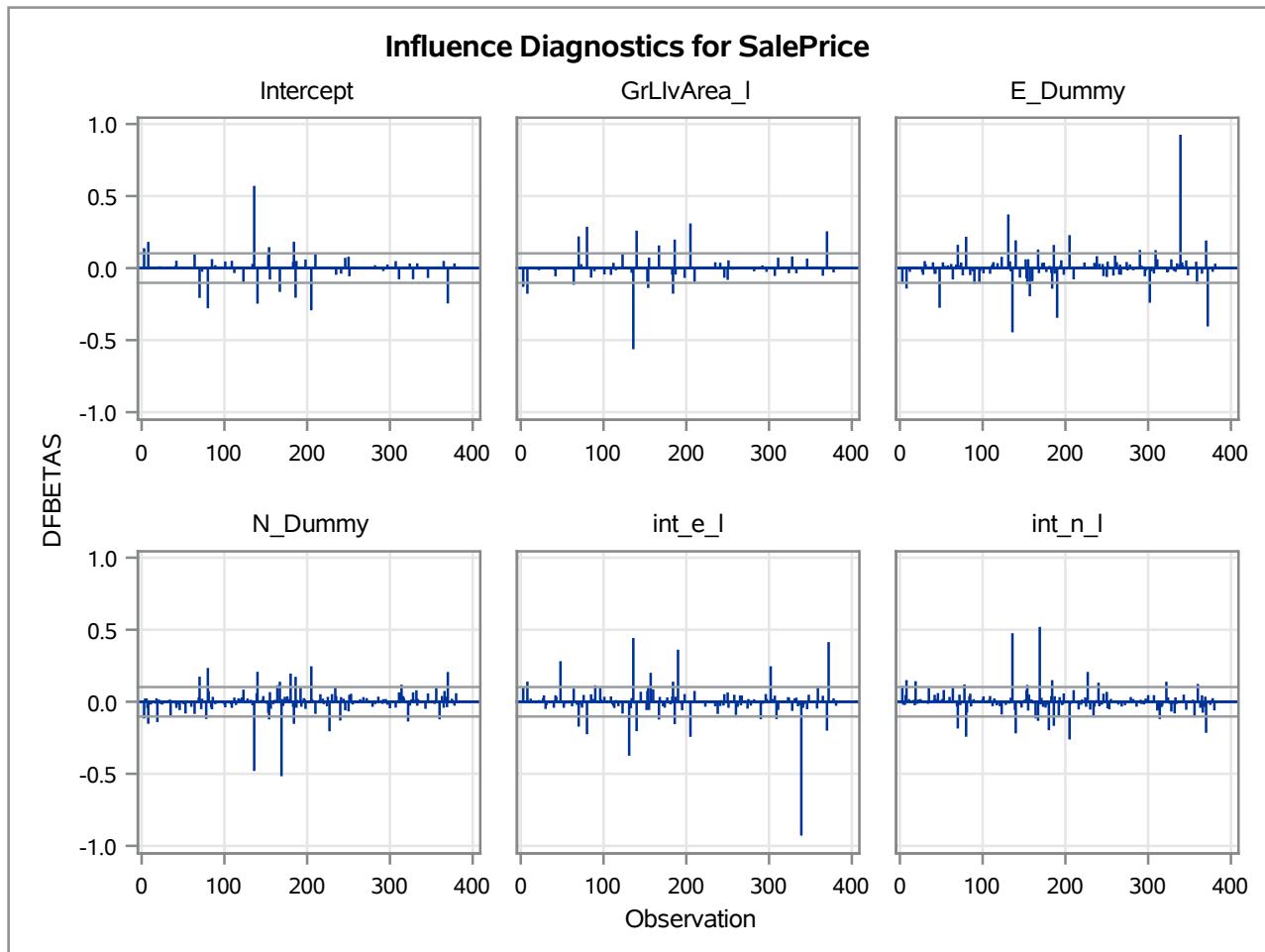
Linear-Log MLR with Dummy and Interactions

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice

Fit Diagnostics for SalePrice



Linear-Log MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice**

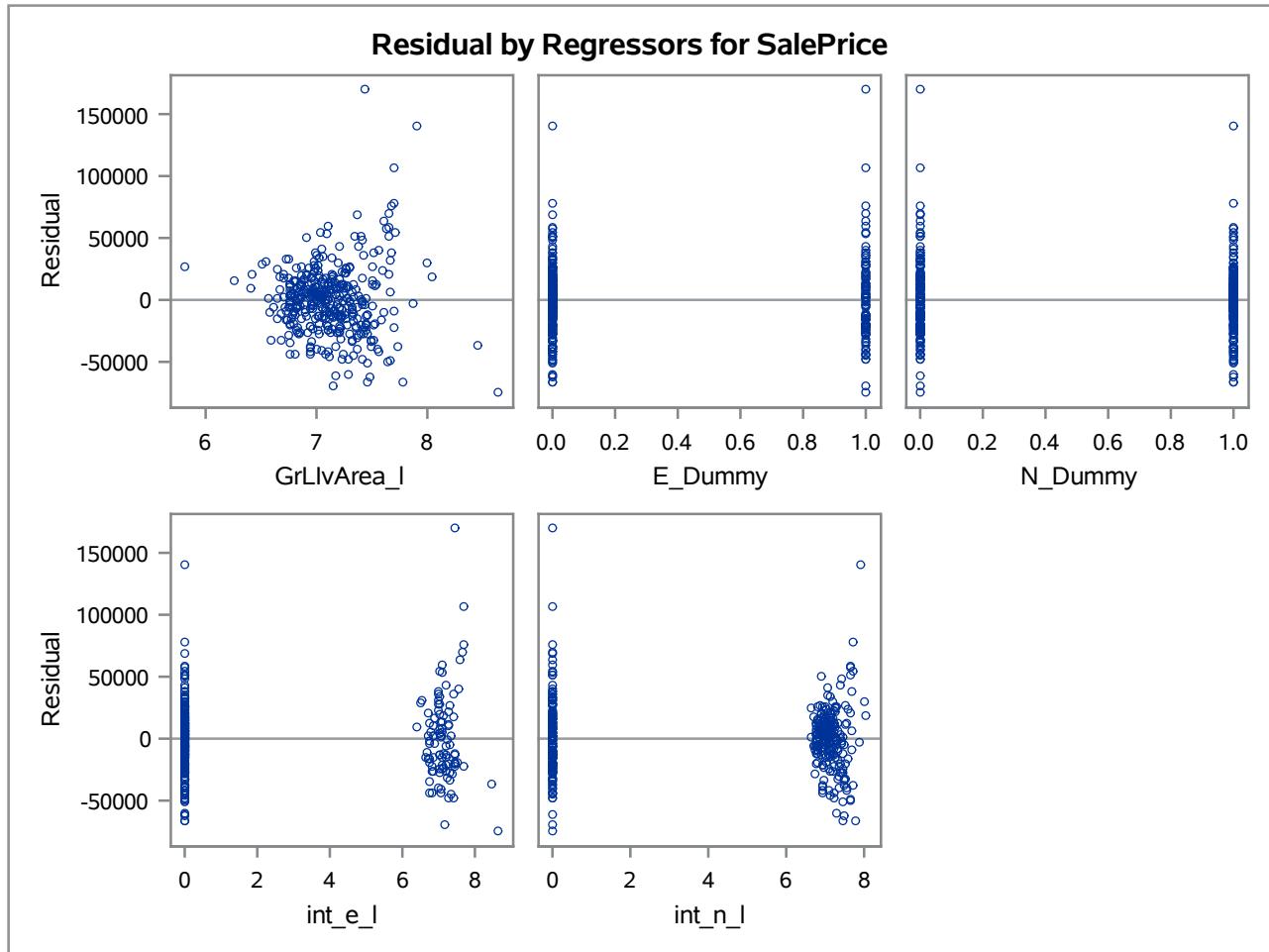
Linear-Log MLR with Dummy and Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice**

Linear-Log MLR with Dummy and Interactions

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice



The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

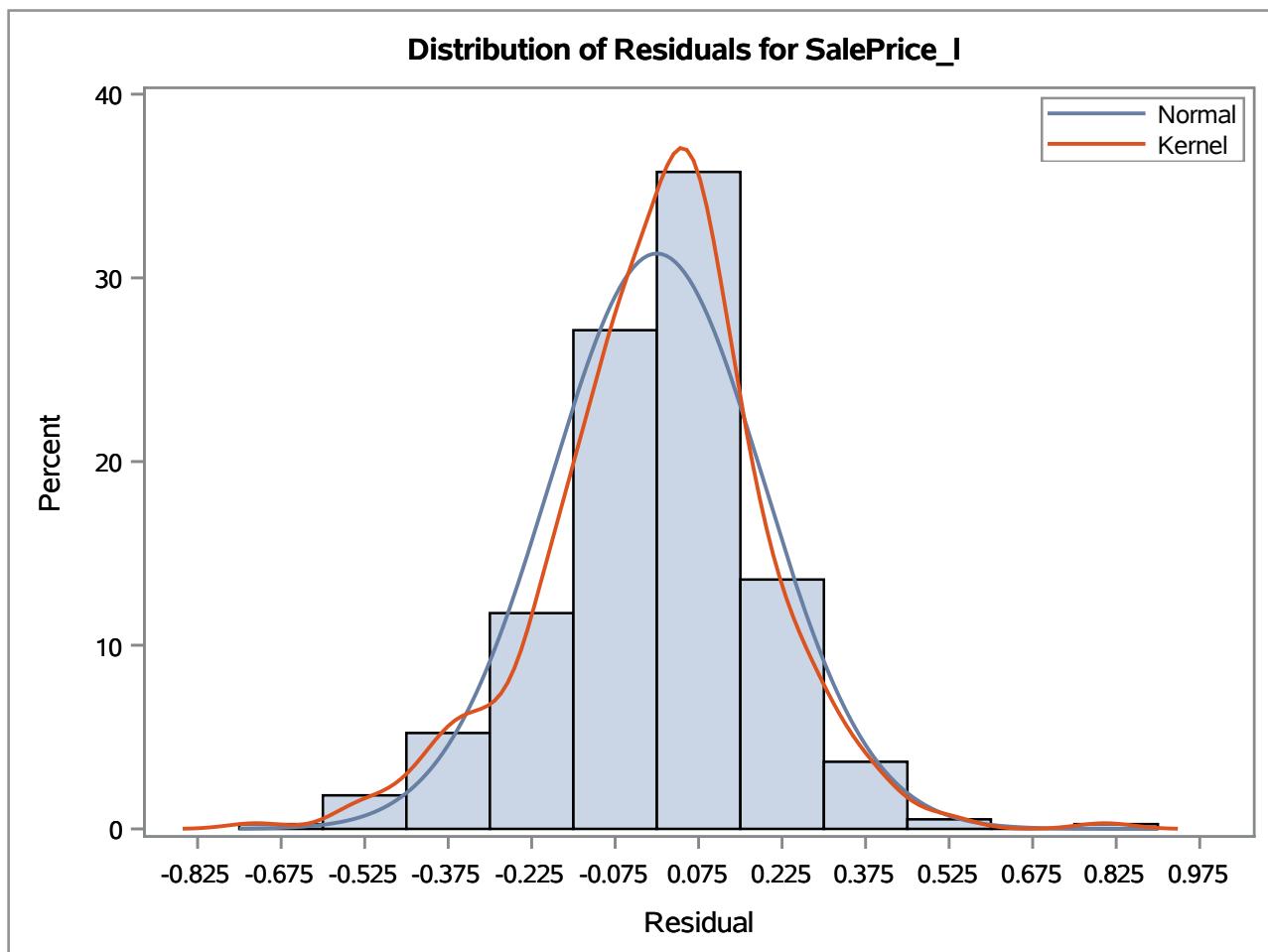
Number of Observations Read	383
Number of Observations Used	383

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	14.62858	2.92572	79.14	<.0001
Error	377	13.93775	0.03697		
Corrected Total	382	28.56633			

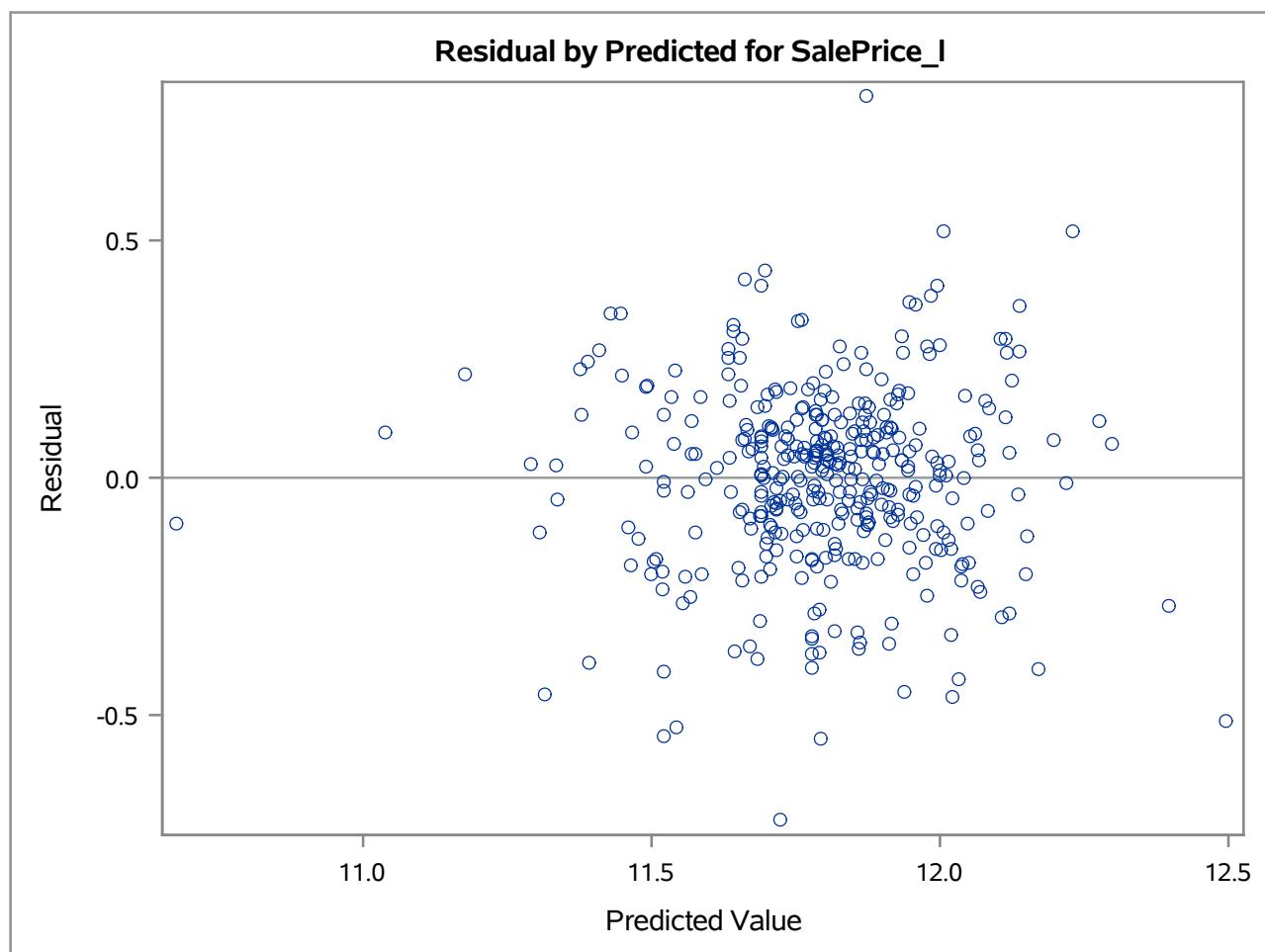
Root MSE	0.19228	R-Square	0.5121
Dependent Mean	11.79887	Adj R-Sq	0.5056
Coeff Var	1.62962		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	5.91292	0.50459	11.72	<.0001
GrLivArea_I	1	0.81965	0.07163	11.44	<.0001
E_Dummy	1	2.09359	0.64589	3.24	0.0013
N_Dummy	1	2.57981	0.59988	4.30	<.0001
int_e_I	1	-0.29998	0.09122	-3.29	0.0011
int_n_I	1	-0.34662	0.08482	-4.09	<.0001

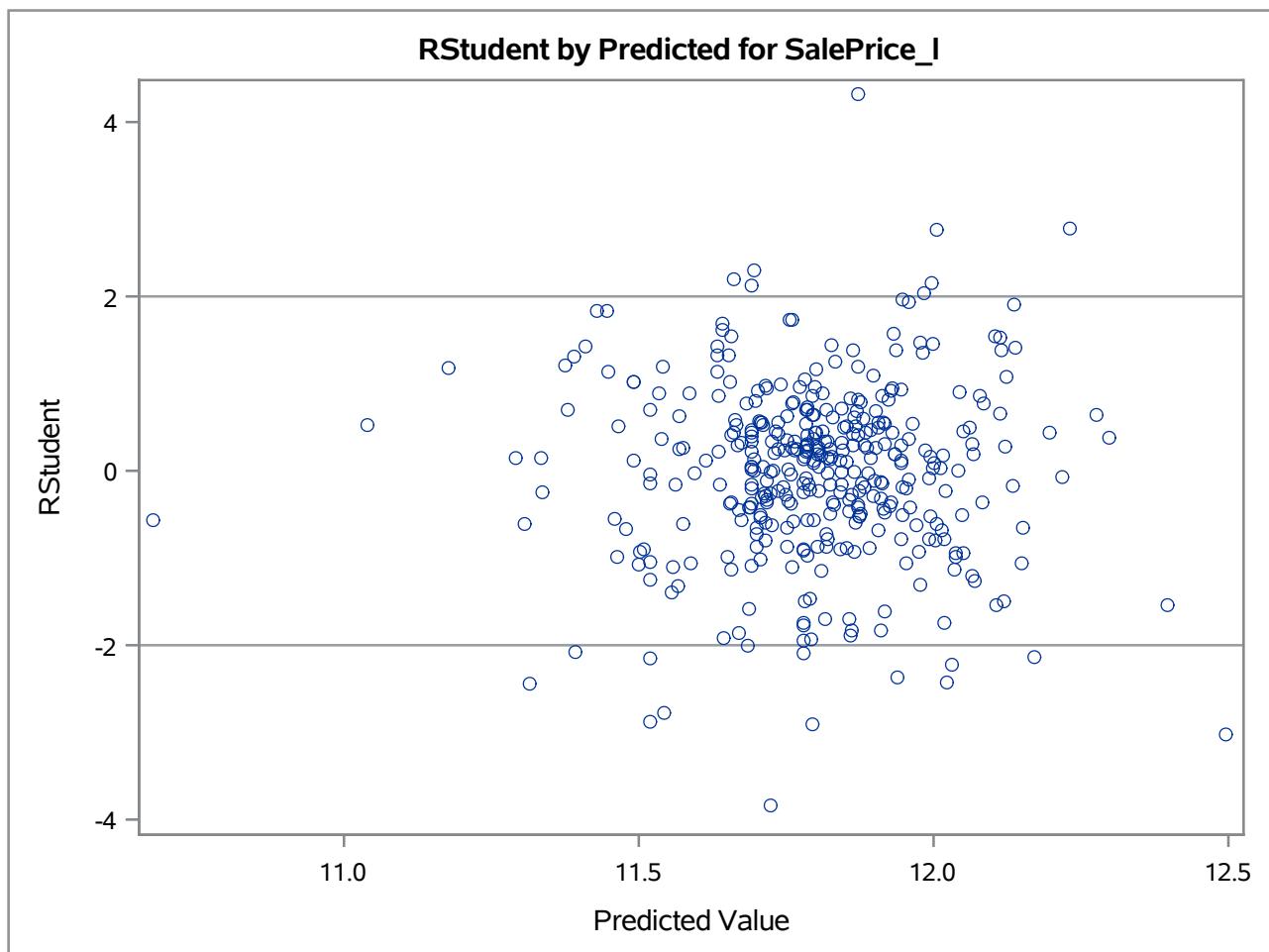
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



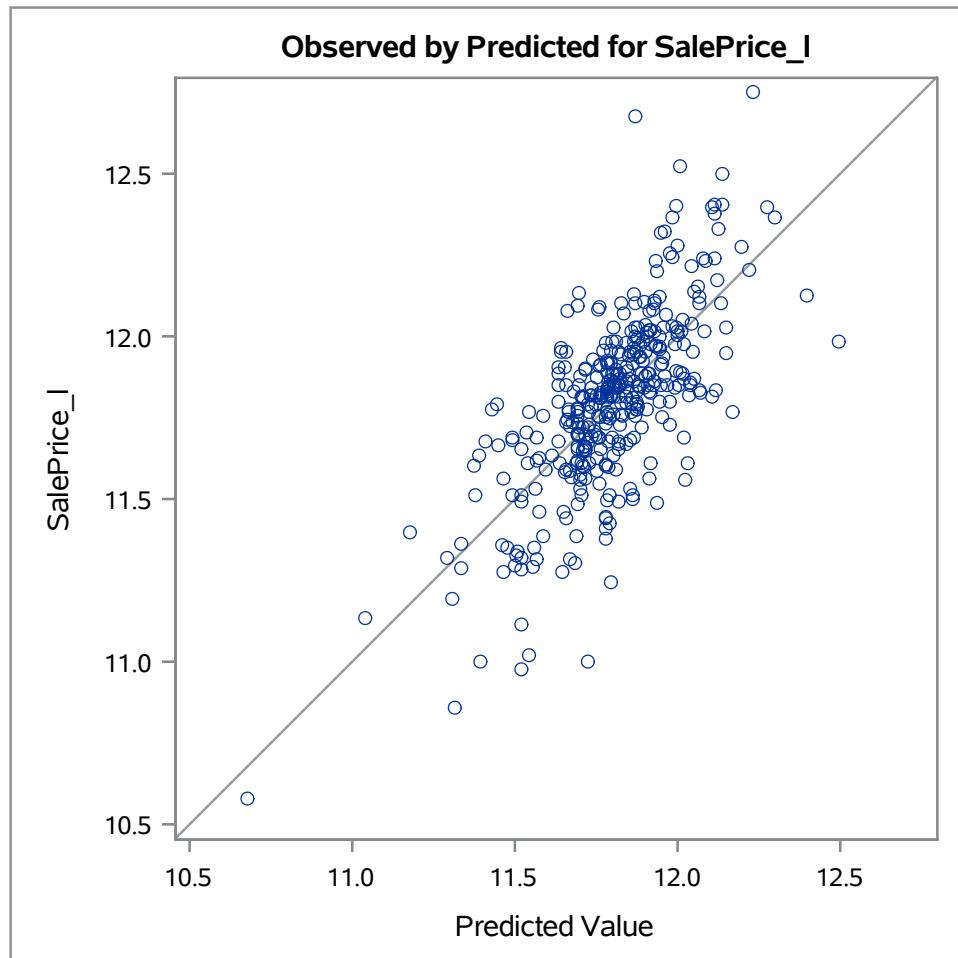
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



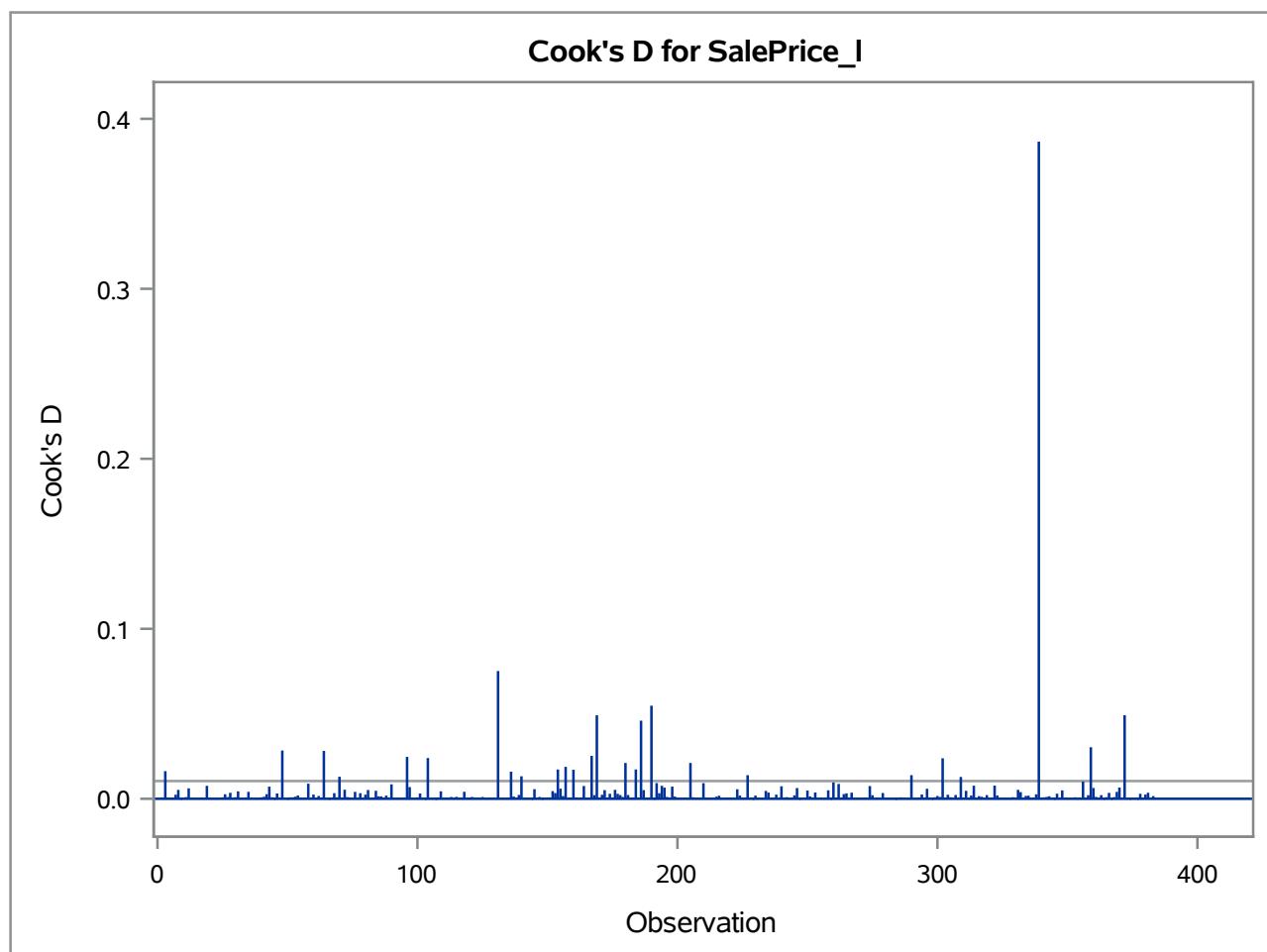
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



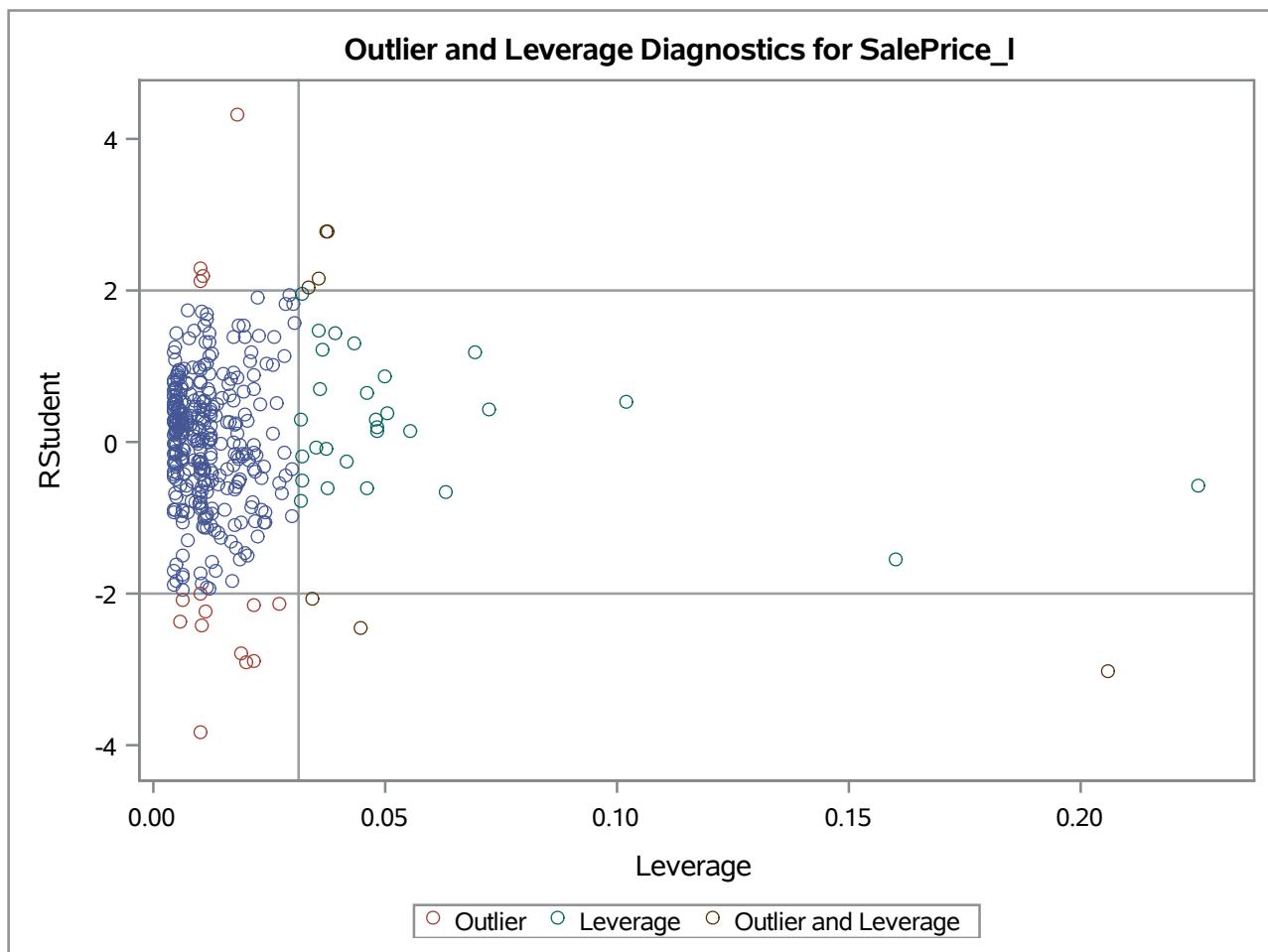
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



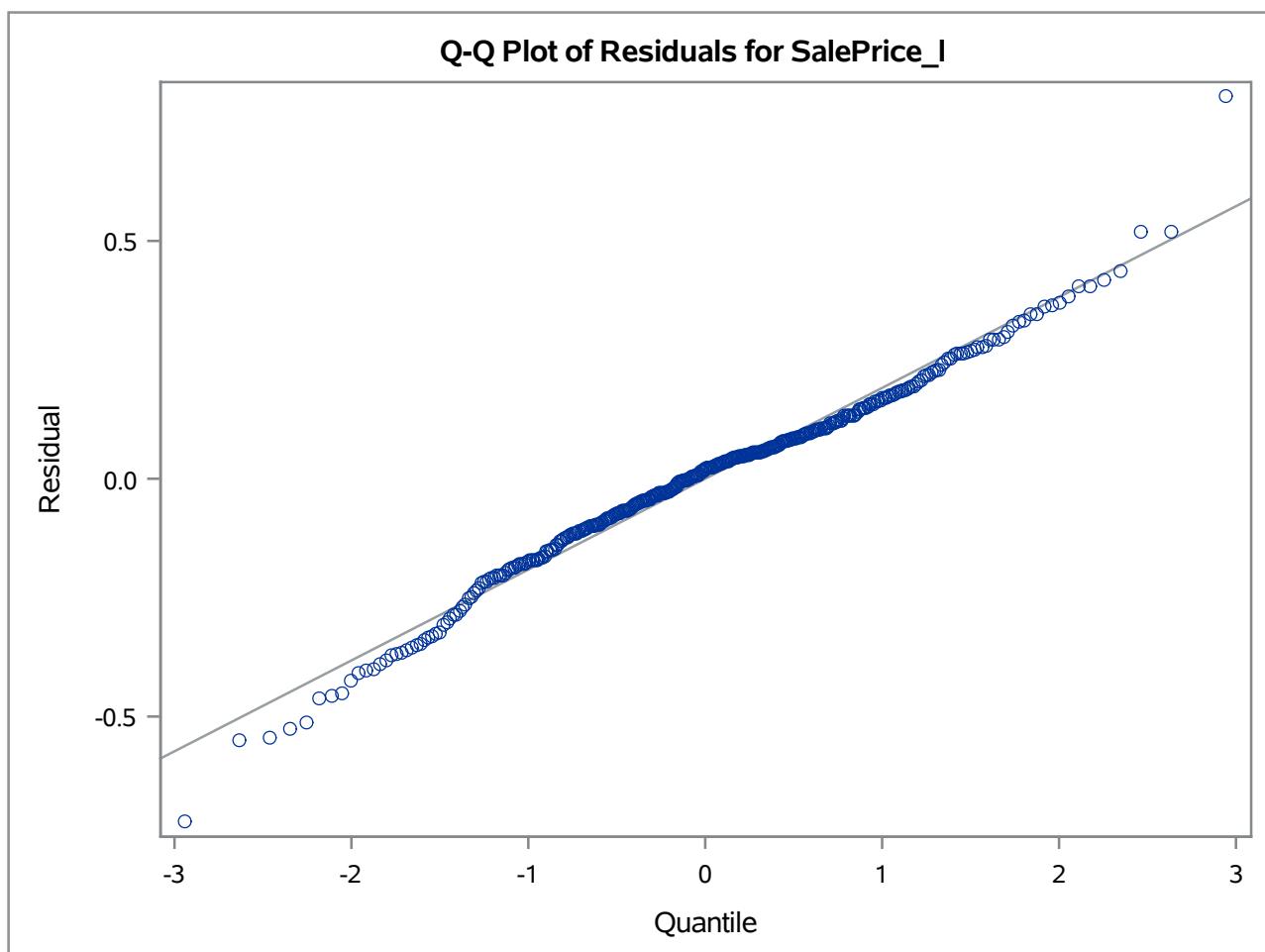
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



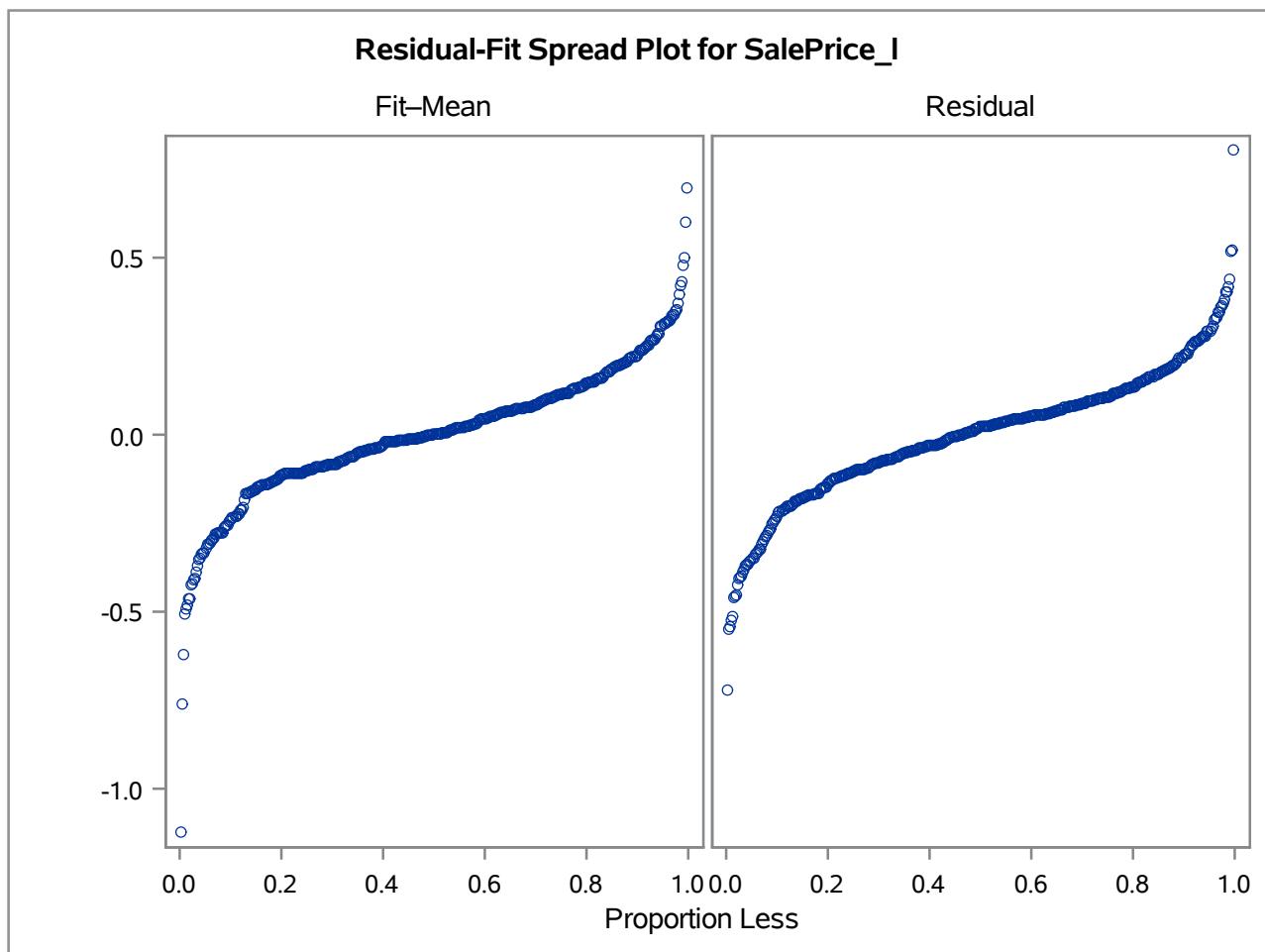
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



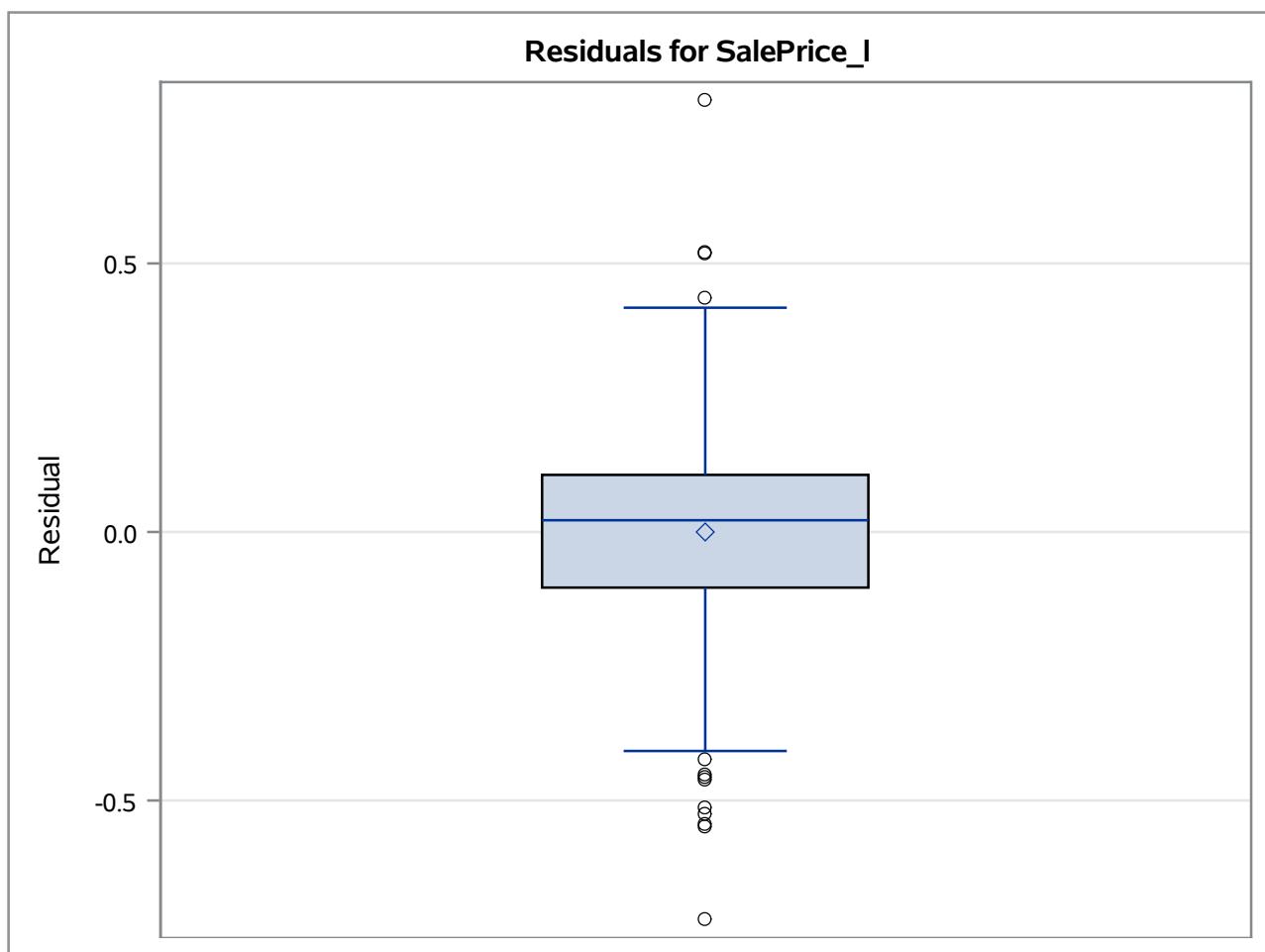
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



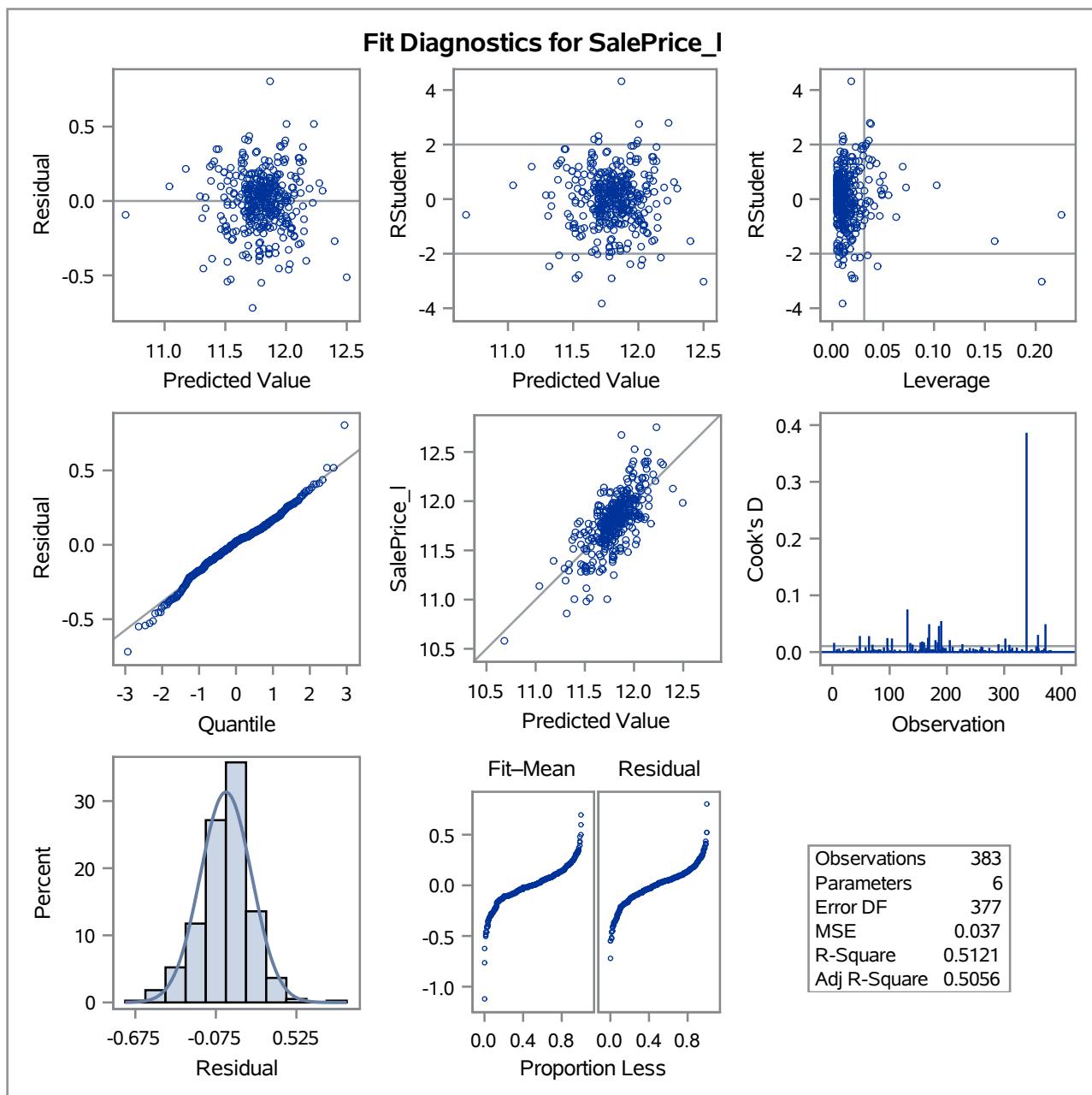
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



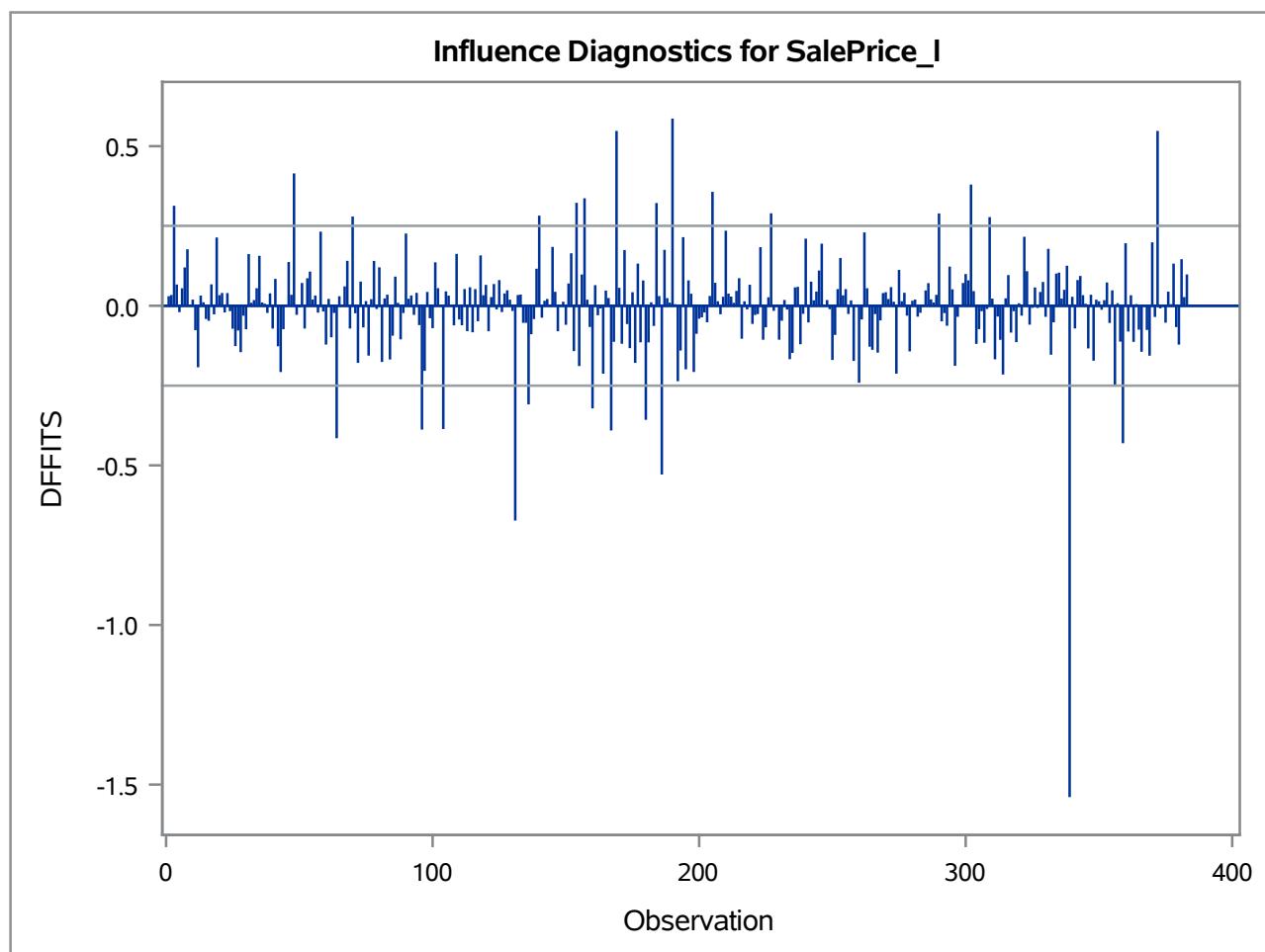
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



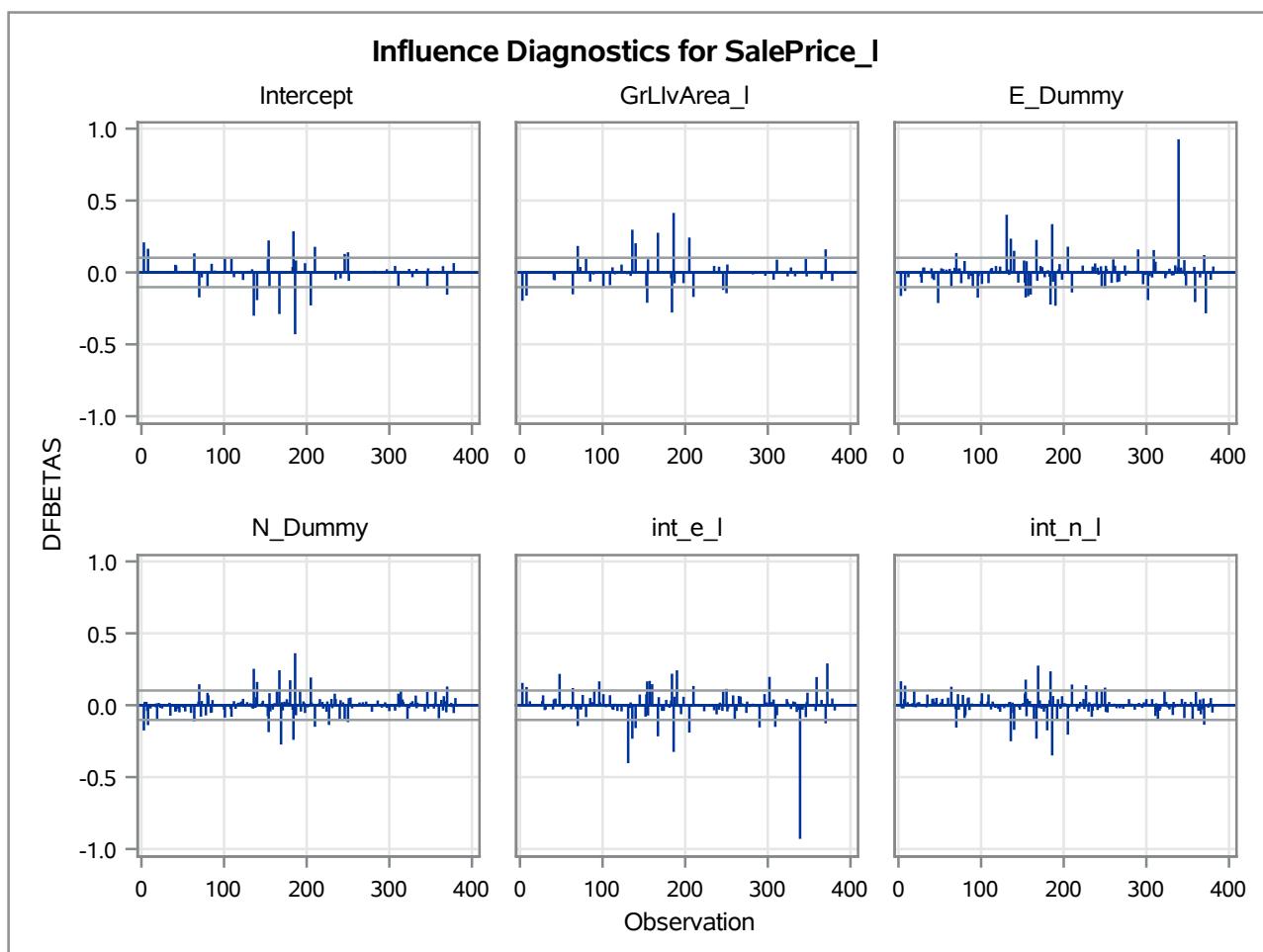
The REG Procedure
 Model: MODEL1
 Dependent Variable: SalePrice_I



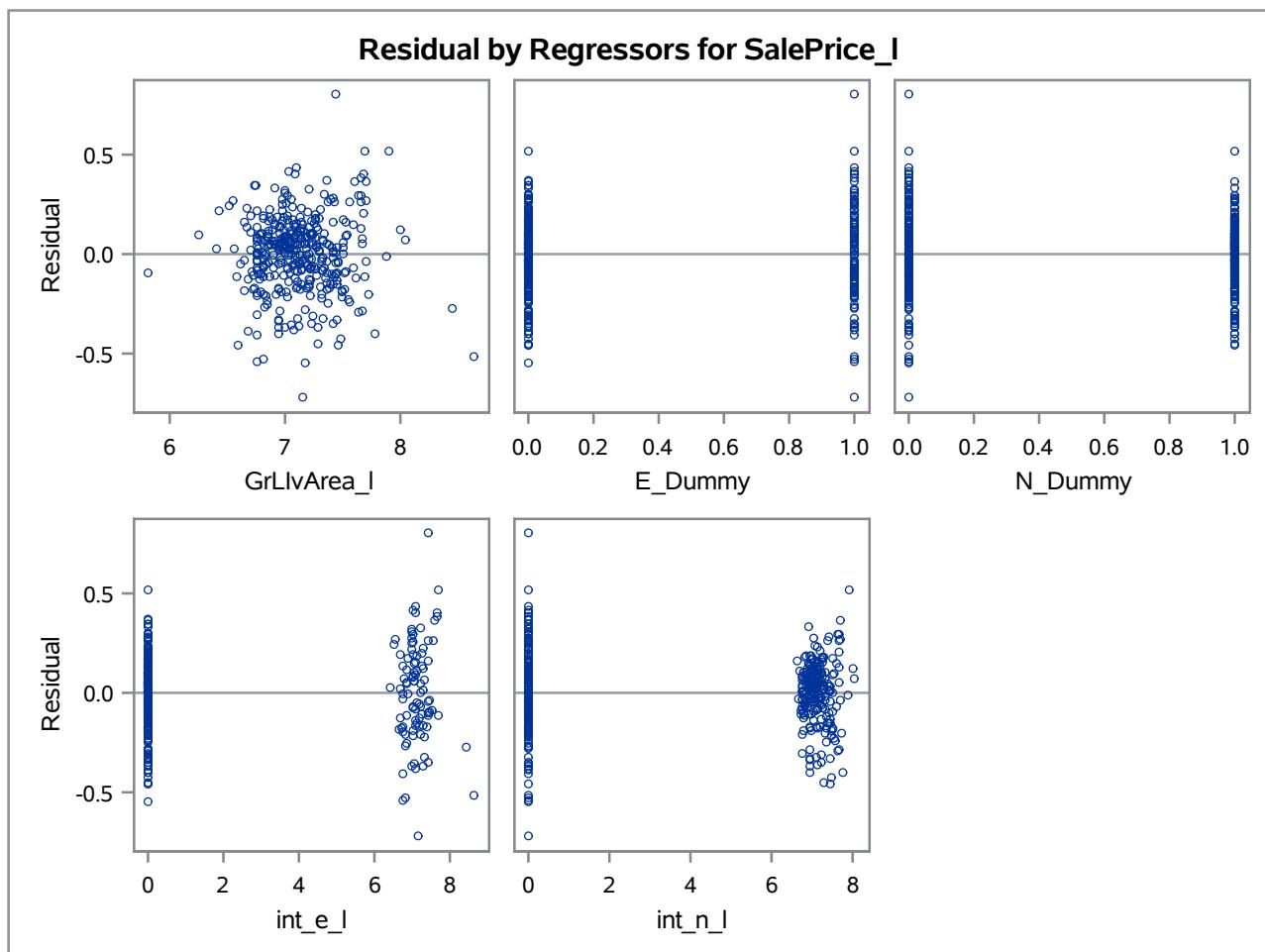
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



The MEANS Procedure

Variable	N	Mean	Std Dev	Minimum	Maximum
GrLlvArea_I	383	7.1193132	0.3120173	5.8111410	8.6379939
E_Dummy	383	0.2610966	0.4398070	0	1.0000000
N_Dummy	383	0.5874674	0.4929340	0	1.0000000

Log-Log MLR with Dummy and Centered Interactions

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

Number of Observations Read	383
Number of Observations Used	383

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	14.62858	2.92572	79.14	<.0001
Error	377	13.93775	0.03697		
Corrected Total	382	28.56633			

Root MSE	0.19228	R-Square	0.5121
Dependent Mean	11.79887	Adj R-Sq	0.5056
Coeff Var	1.62962		

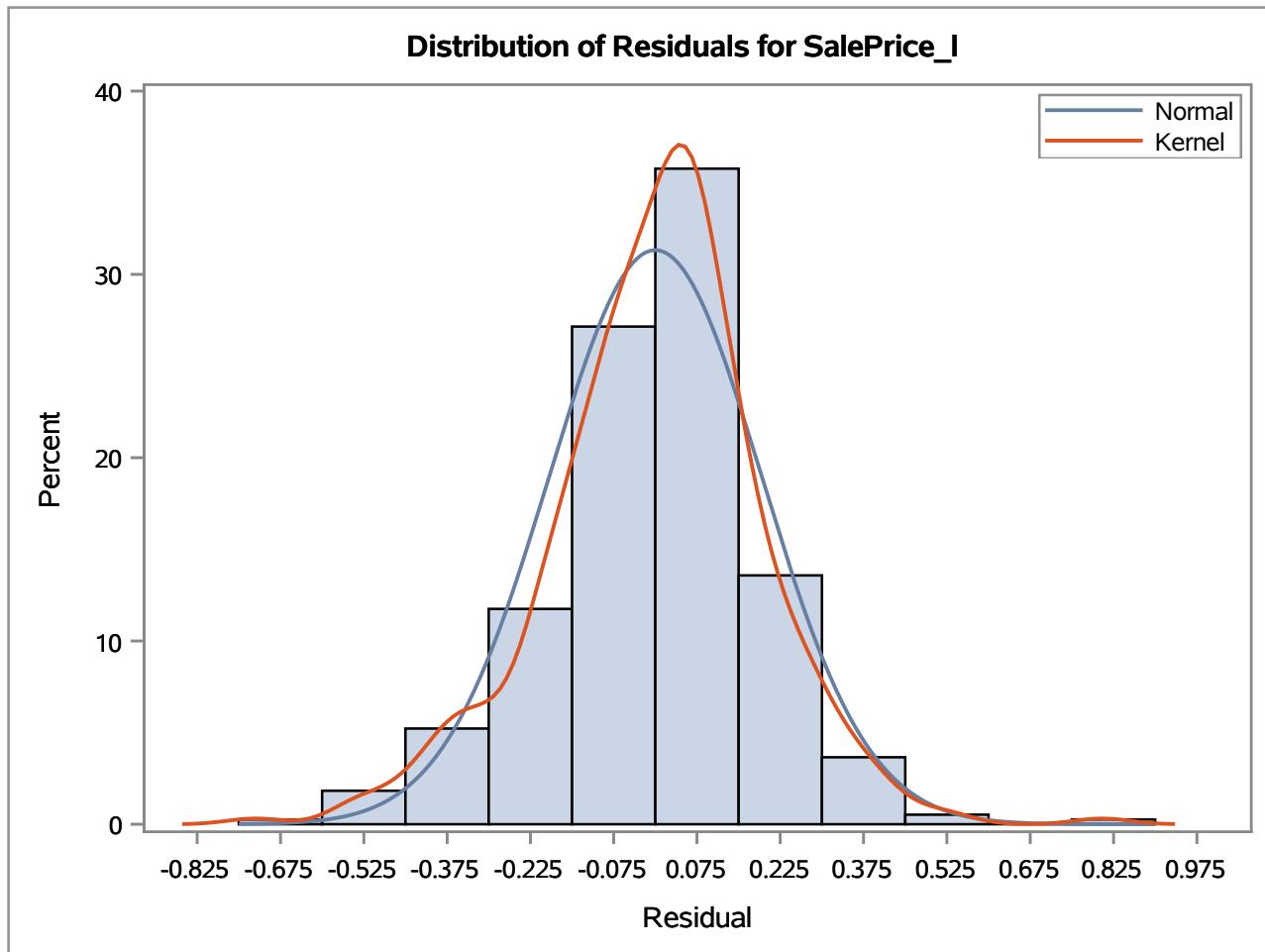
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	7.92024	0.22985	34.46	<.0001
GrLlvArea_I	1	0.53769	0.03236	16.61	<.0001
E_Dummy	1	-0.04207	0.03230	-1.30	0.1936
N_Dummy	1	0.11208	0.02895	3.87	0.0001
centE	1	-0.29998	0.09122	-3.29	0.0011
centN	1	-0.34662	0.08482	-4.09	<.0001

Log-Log MLR with Dummy and Centered Interactions

The REG Procedure

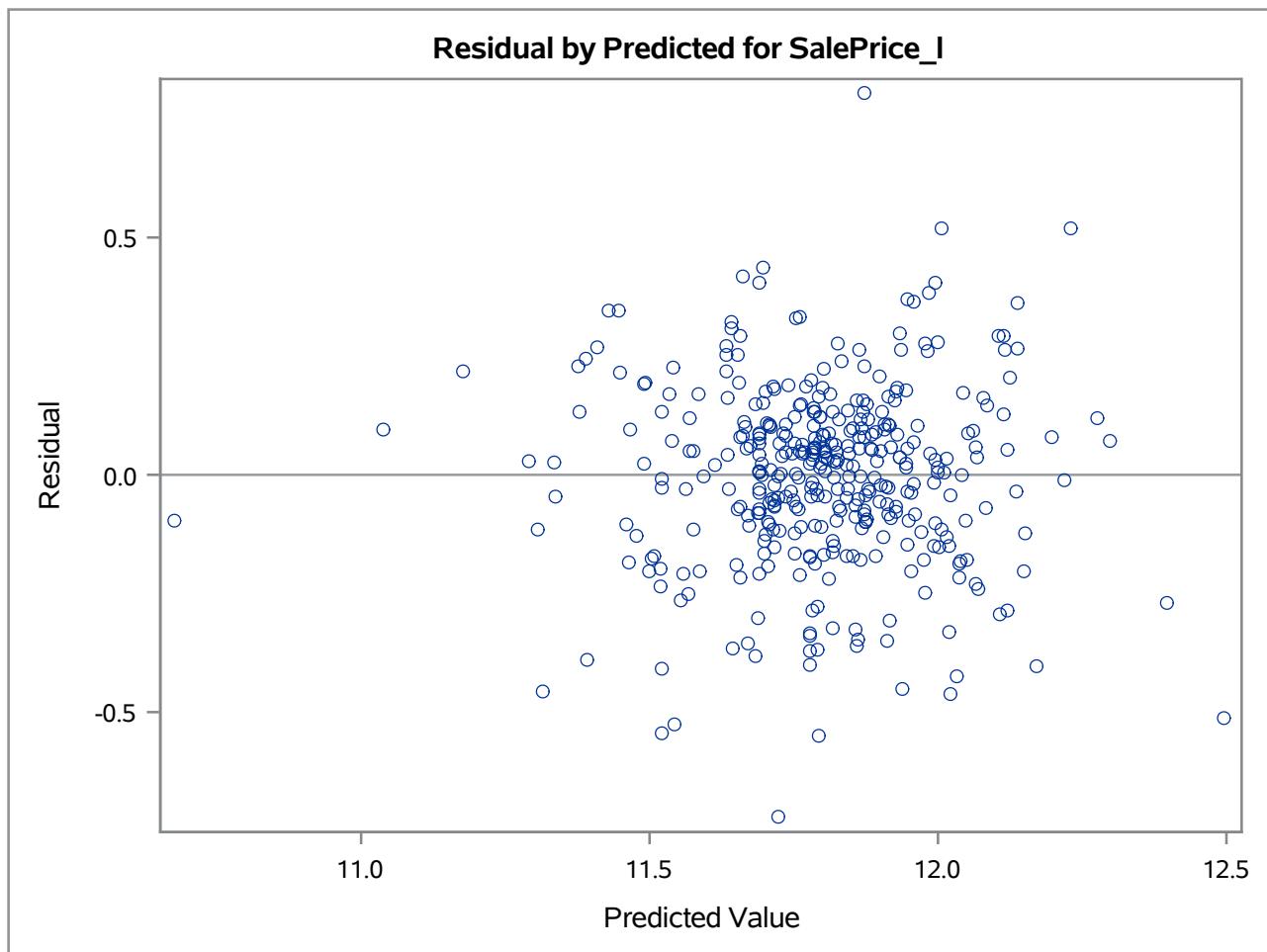
Model: MODEL1

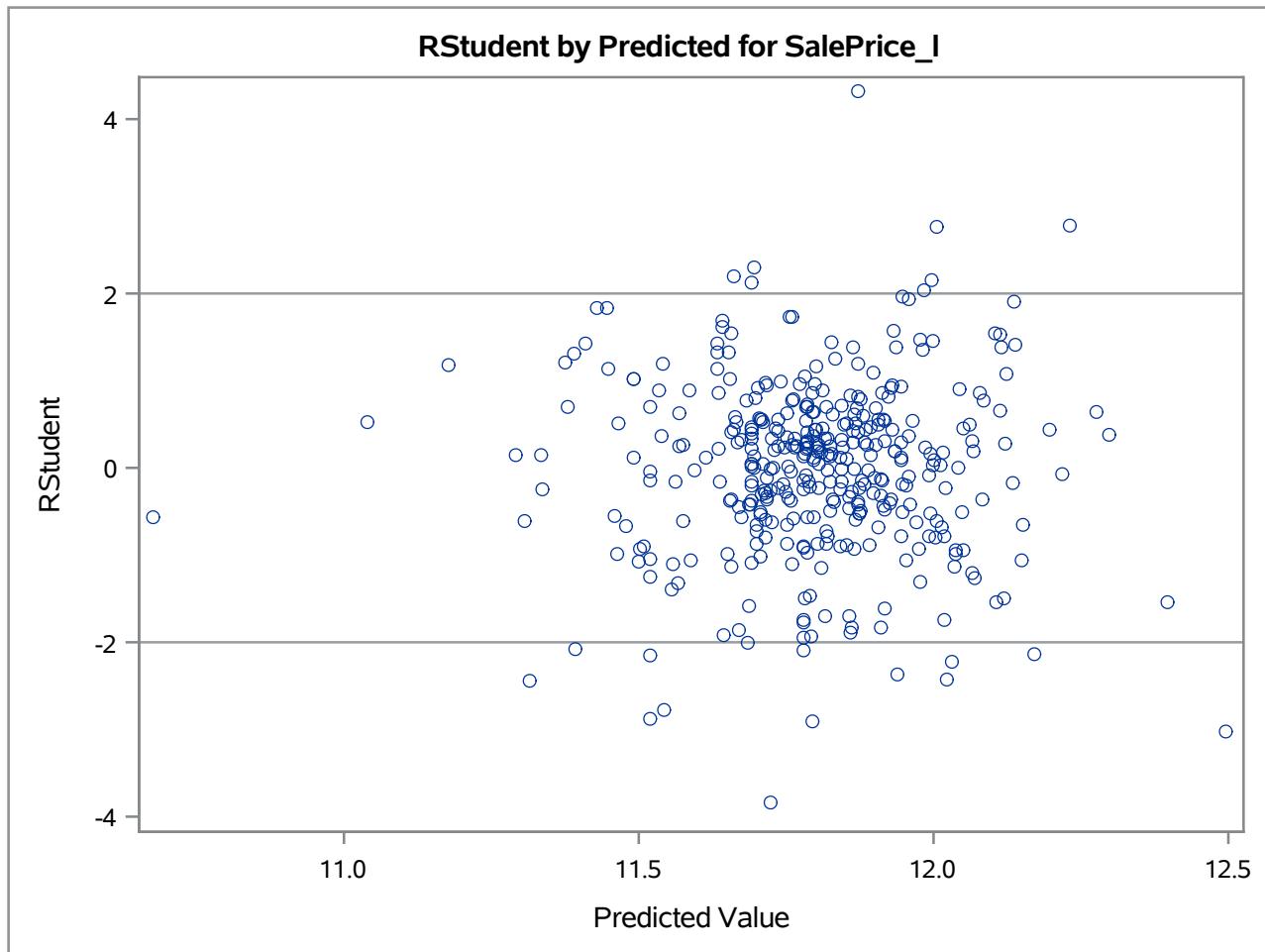
Dependent Variable: SalePrice_I

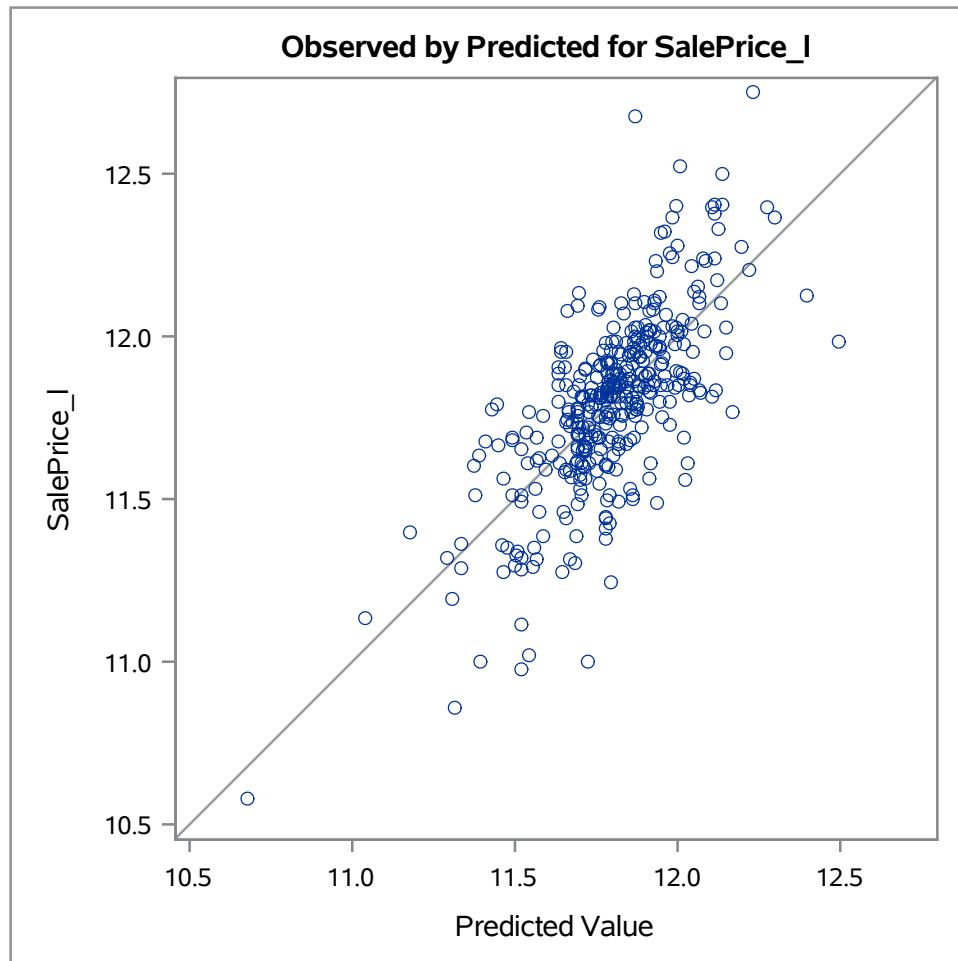


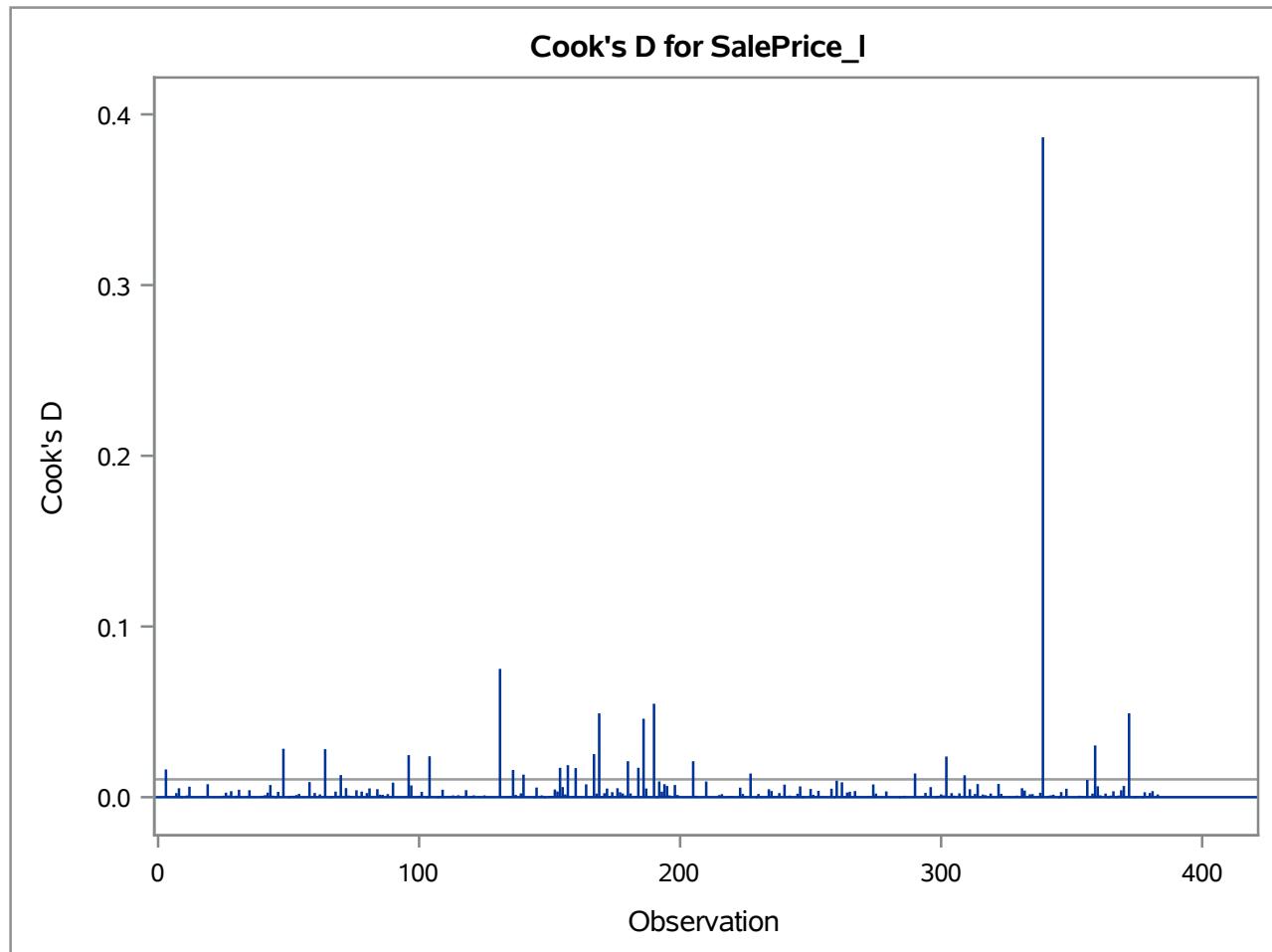
Log-Log MLR with Dummy and Centered Interactions

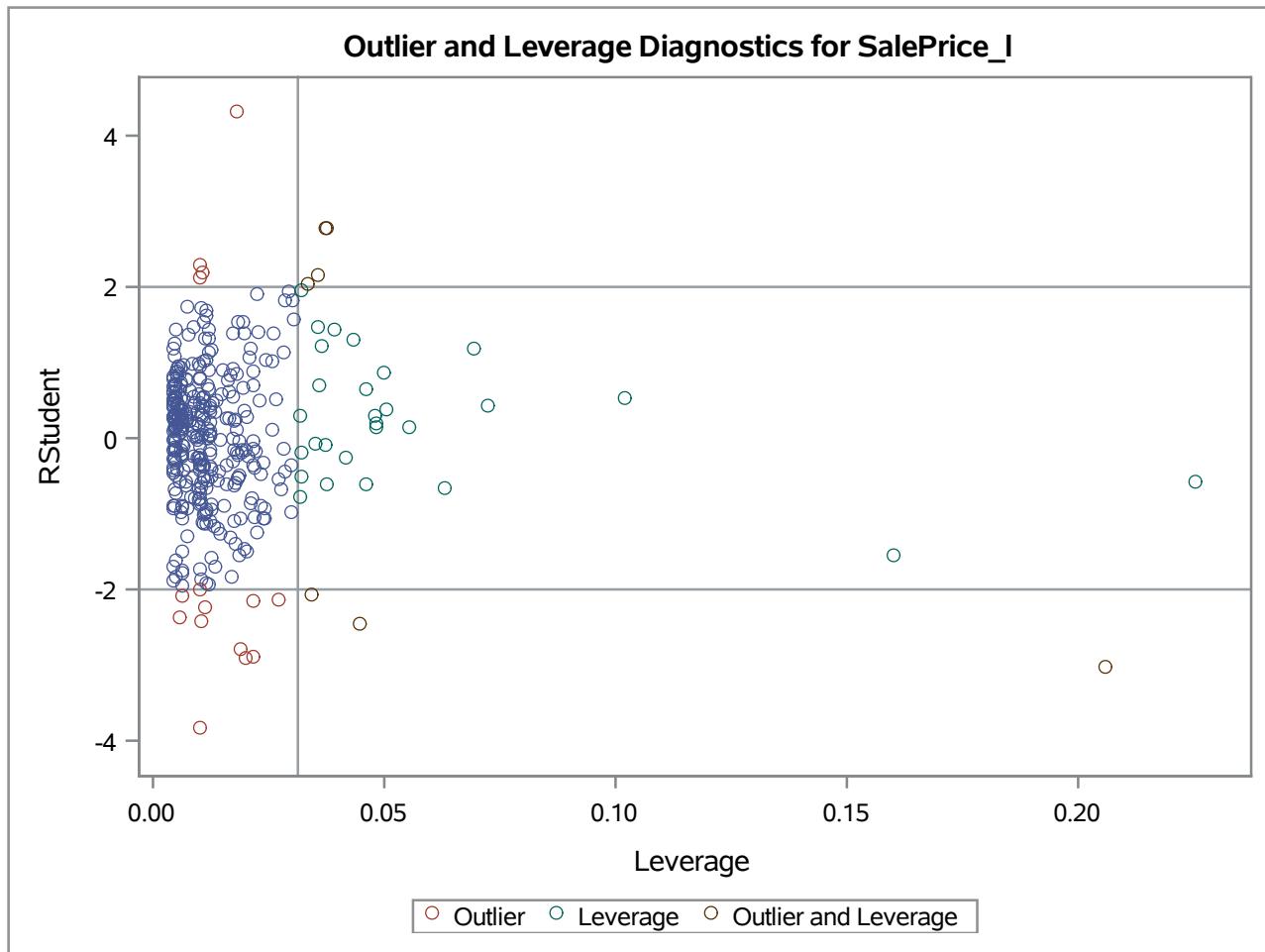
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



Log-Log MLR with Dummy and Centered Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Log-Log MLR with Dummy and Centered Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Log-Log MLR with Dummy and Centered Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

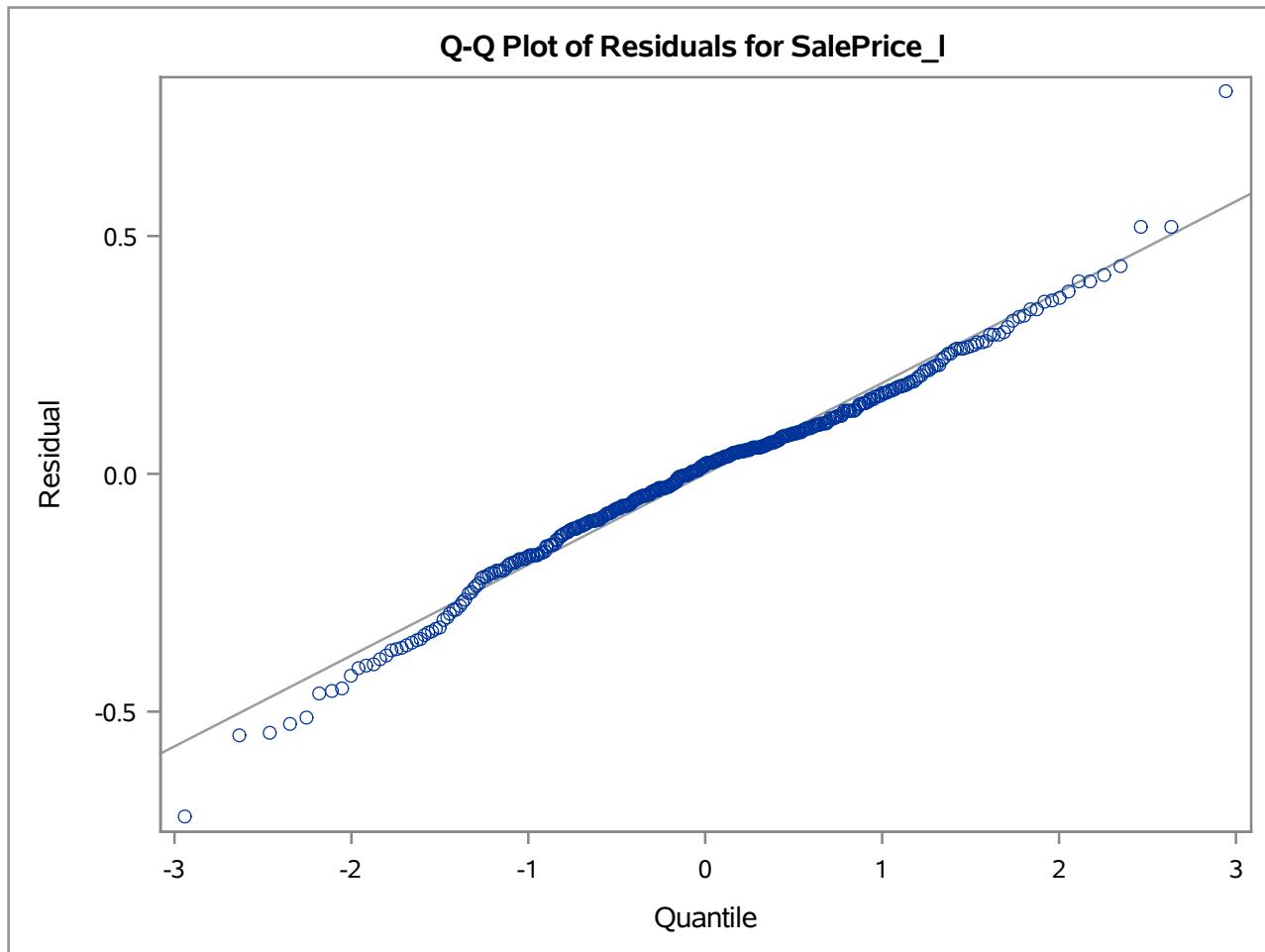
Log-Log MLR with Dummy and Centered Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Log-Log MLR with Dummy and Centered Interactions

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I



Log-Log MLR with Dummy and Centered Interactions

The REG Procedure

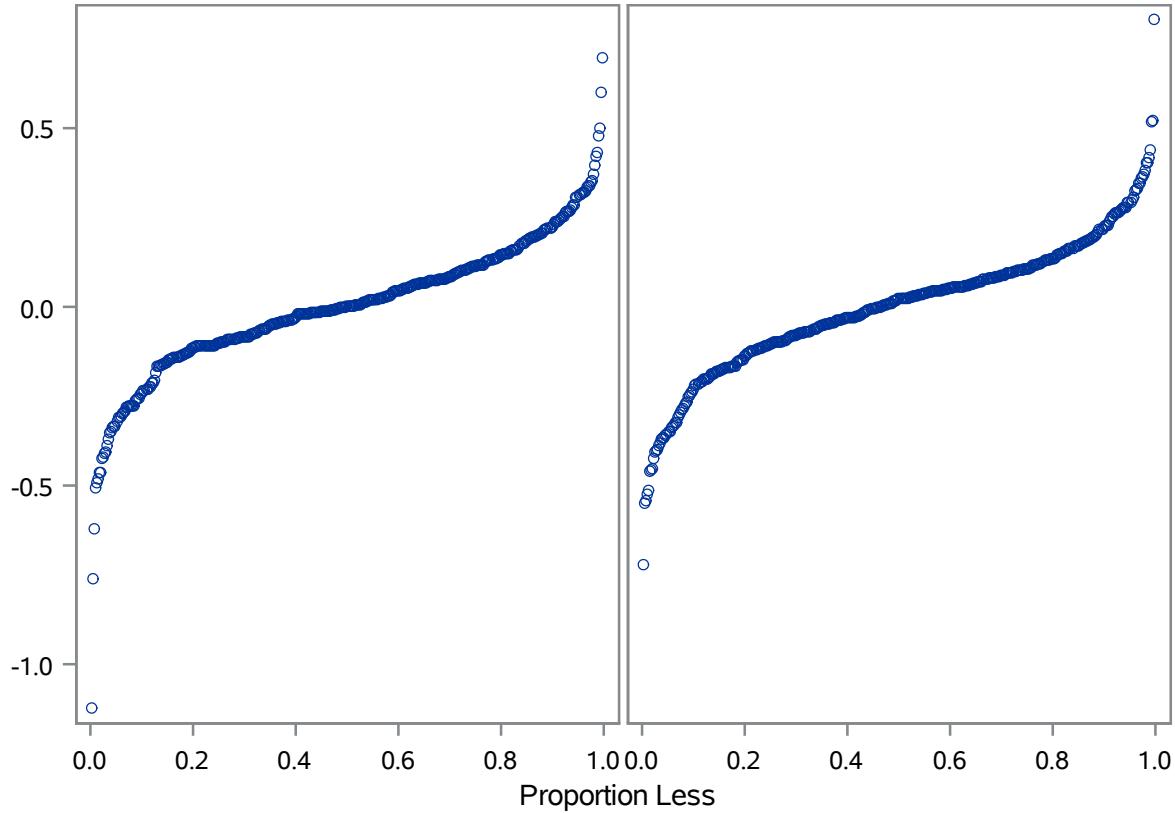
Model: MODEL1

Dependent Variable: SalePrice_I

Residual-Fit Spread Plot for SalePrice_I

Fit-Mean

Residual

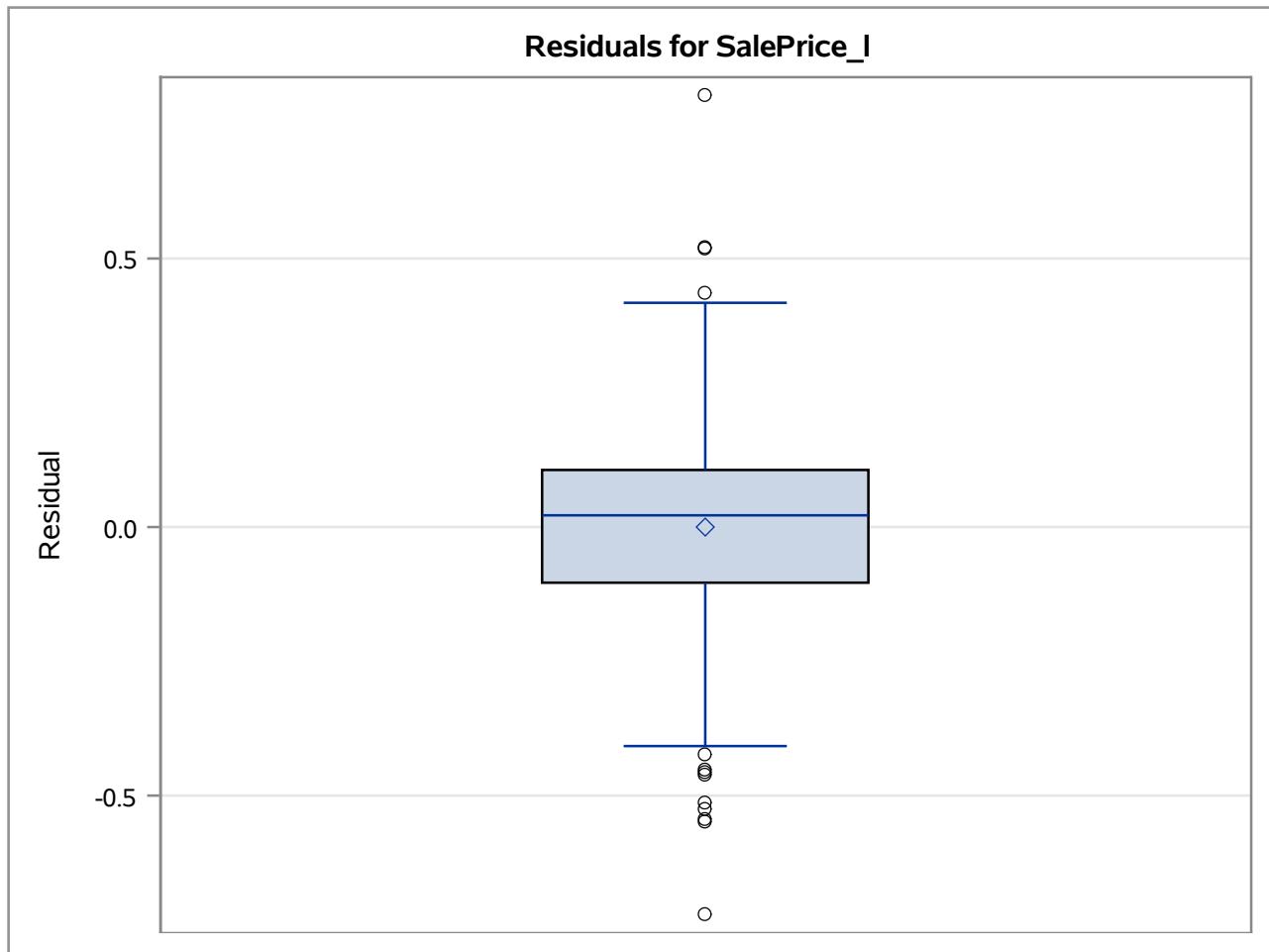


Log-Log MLR with Dummy and Centered Interactions

The REG Procedure

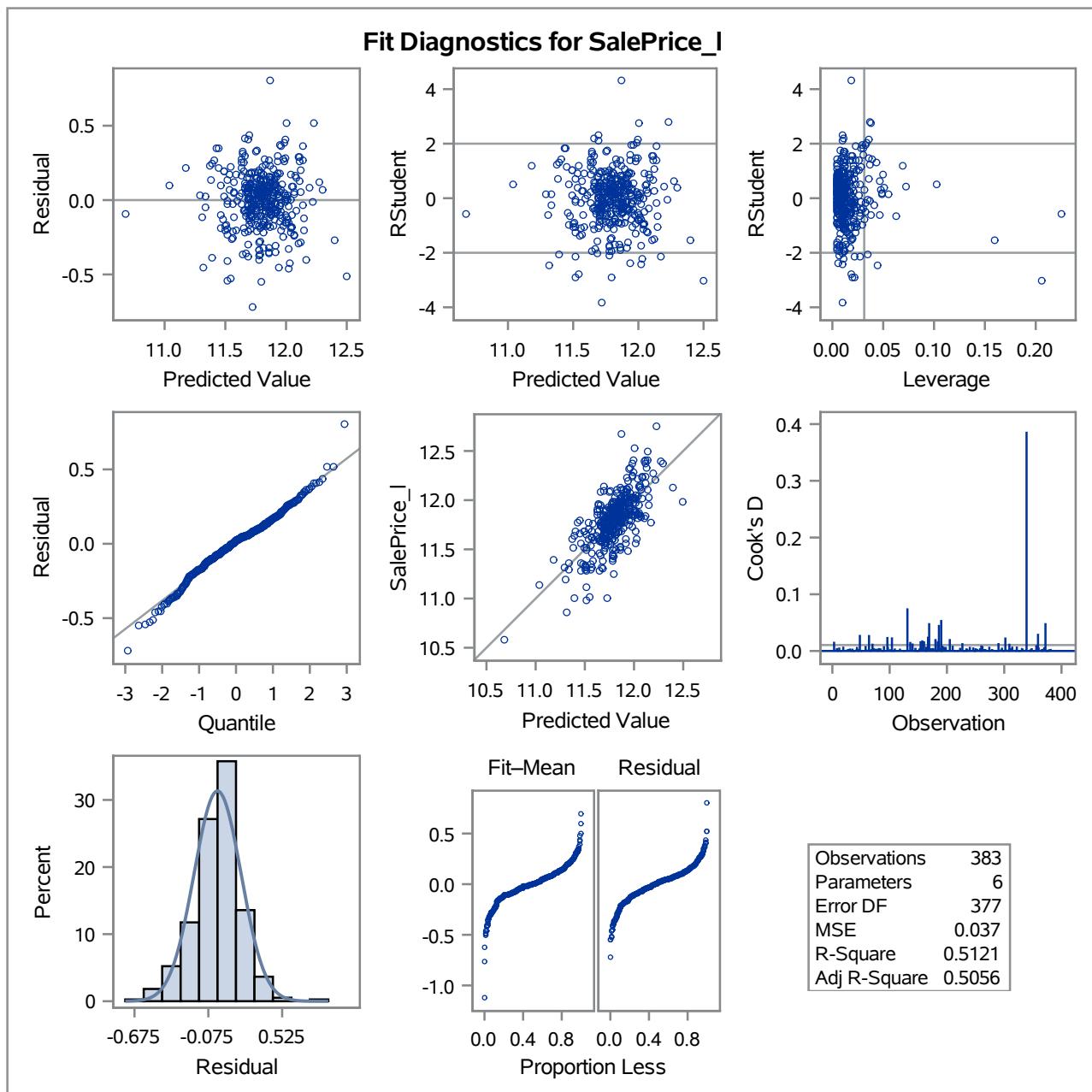
Model: MODEL1

Dependent Variable: SalePrice_I



Log-Log MLR with Dummy and Centered Interactions

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

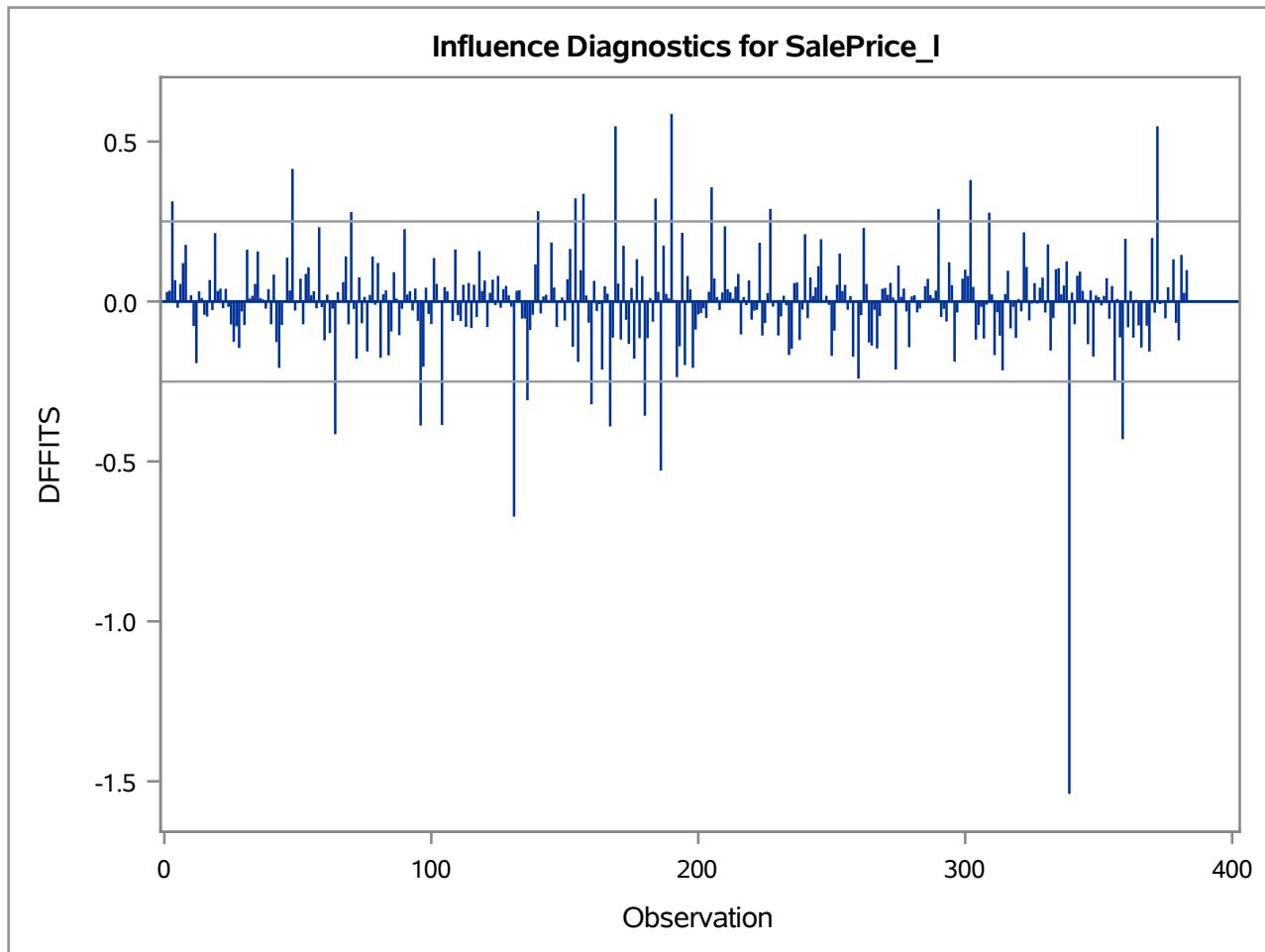


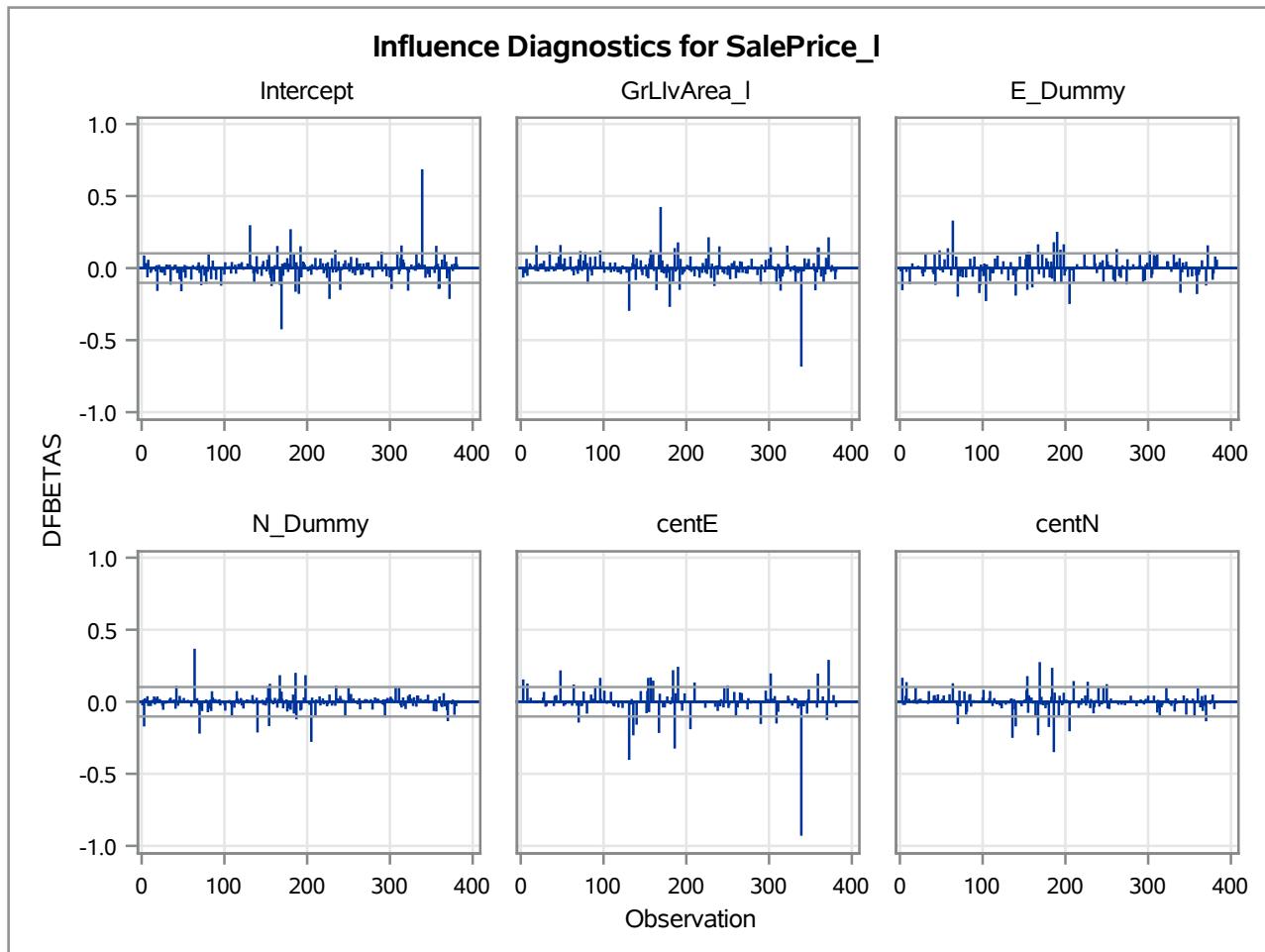
Log-Log MLR with Dummy and Centered Interactions

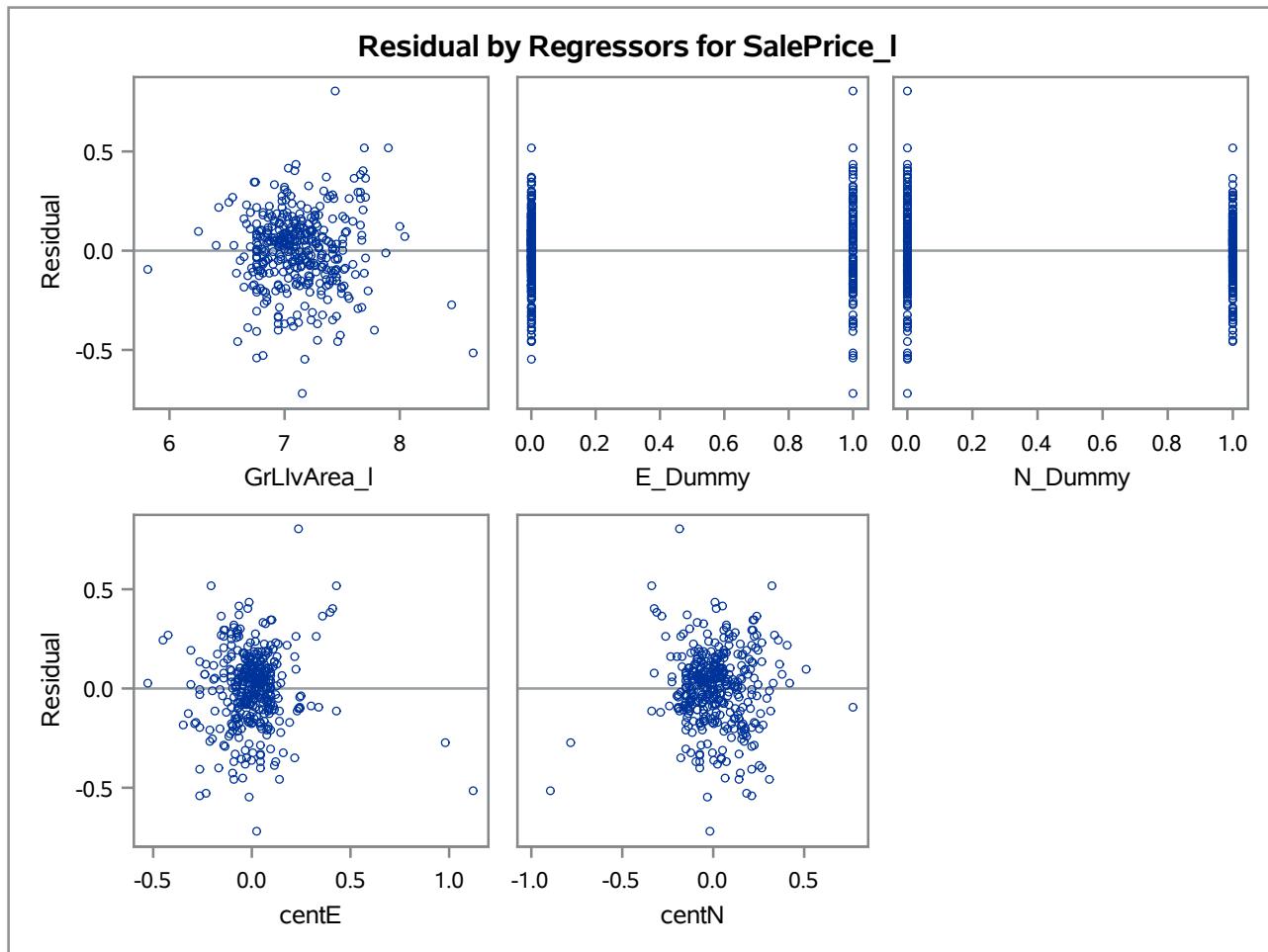
The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I



Log-Log MLR with Dummy and Centered Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Log-Log MLR with Dummy and Centered Interactions**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

The CONTENTS Procedure

Data Set Name	WORK.TRAIN	Observations	2919
Member Type	DATA	Variables	81
Engine	V9	Indexes	0
Created	04/12/2019 18:30:19	Observation Length	472
Last Modified	04/12/2019 18:30:31	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Engine/Host Dependent Information	
Data Set Page Size	131072
Number of Data Set Pages	11
First Data Page	1
Max Obs per Page	277
Obs in First Data Page	250
Number of Data Set Repairs	0
Filename	/saswork/SAS_workAD6400018965_odaws02-prod-us/SAS_work2F1800018965_odaws02-prod-us/train.sas7bdat
Release Created	9.0401M5
Host Created	Linux
Inode Number	631784
Access Permission	rw-r--r--
Owner Name	eric.balke
File Size	2MB
File Size (bytes)	1572864

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
44	1stFlrSF	Num	8	BEST12.	BEST32.
45	2ndFlrSF	Num	8	BEST12.	BEST32.
70	3SsnPorch	Num	8	BEST12.	BEST32.
7	Alley	Char	2	\$2.	\$2.
52	BedroomAbvGr	Num	8	BEST12.	BEST32.
16	BldgType	Char	6	\$6.	\$6.
32	BsmtCond	Char	2	\$2.	\$2.
33	BsmtExposure	Char	2	\$2.	\$2.
35	BsmtFinSF1	Num	8	BEST12.	BEST32.

The CONTENTS Procedure

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
37	BsmtFinSF2	Num	8	BEST12.	BEST32.
34	BsmtFinType1	Char	3	\$3.	\$3.
36	BsmtFinType2	Char	3	\$3.	\$3.
48	BsmtFullBath	Num	8	BEST12.	BEST32.
49	BsmtHalfBath	Num	8	BEST12.	BEST32.
31	BsmtQual	Char	2	\$2.	\$2.
38	BsmtUnfSF	Num	8	BEST12.	BEST32.
42	CentralAir	Char	1	\$1.	\$1.
14	Condition1	Char	6	\$6.	\$6.
15	Condition2	Char	6	\$6.	\$6.
43	Electrical	Char	5	\$5.	\$5.
69	EnclosedPorch	Num	8	BEST12.	BEST32.
29	ExterCond	Char	2	\$2.	\$2.
28	ExterQual	Char	2	\$2.	\$2.
24	Exterior1st	Char	7	\$7.	\$7.
25	Exterior2nd	Char	7	\$7.	\$7.
74	Fence	Char	5	\$5.	\$5.
58	FireplaceQu	Char	2	\$2.	\$2.
57	Fireplaces	Num	8	BEST12.	BEST32.
30	Foundation	Char	6	\$6.	\$6.
50	FullBath	Num	8	BEST12.	BEST32.
56	Functional	Char	4	\$4.	\$4.
63	GarageArea	Num	8	BEST12.	BEST32.
62	GarageCars	Num	8	BEST12.	BEST32.
65	GarageCond	Char	2	\$2.	\$2.
61	GarageFinish	Char	3	\$3.	\$3.
64	GarageQual	Char	2	\$2.	\$2.
59	GarageType	Char	7	\$7.	\$7.
60	GarageYrBlt	Char	4	\$4.	\$4.
47	GrLivArea	Num	8	BEST12.	BEST32.
51	HalfBath	Num	8	BEST12.	BEST32.
40	Heating	Char	4	\$4.	\$4.
41	HeatingQC	Char	2	\$2.	\$2.
17	HouseStyle	Char	6	\$6.	\$6.
1	Id	Num	8	BEST12.	BEST32.
53	KitchenAbvGr	Num	8	BEST12.	BEST32.

The CONTENTS Procedure

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
54	KitchenQual	Char	2	\$2.	\$2.
9	LandContour	Char	3	\$3.	\$3.
12	LandSlope	Char	3	\$3.	\$3.
5	LotArea	Num	8	BEST12.	BEST32.
11	LotConfig	Char	7	\$7.	\$7.
4	LotFrontage	Char	2	\$2.	\$2.
8	LotShape	Char	3	\$3.	\$3.
46	LowQualFinSF	Num	8	BEST12.	BEST32.
2	MSSubClass	Num	8	BEST12.	BEST32.
3	MSZoning	Char	2	\$2.	\$2.
27	MasVnrArea	Num	8	BEST12.	BEST32.
26	MasVnrType	Char	7	\$7.	\$7.
75	MiscFeature	Char	4	\$4.	\$4.
76	MiscVal	Num	8	BEST12.	BEST32.
77	MoSold	Num	8	BEST12.	BEST32.
13	Neighborhood	Char	7	\$7.	\$7.
68	OpenPorchSF	Num	8	BEST12.	BEST32.
19	OverallCond	Num	8	BEST12.	BEST32.
18	OverallQual	Num	8	BEST12.	BEST32.
66	PavedDrive	Char	1	\$1.	\$1.
72	PoolArea	Num	8	BEST12.	BEST32.
73	PoolQC	Char	2	\$2.	\$2.
23	RoofMatl	Char	7	\$7.	\$7.
22	RoofStyle	Char	5	\$5.	\$5.
80	SaleCondition	Char	7	\$7.	\$7.
81	SalePrice	Num	8	BEST12.	BEST32.
79	SaleType	Char	3	\$3.	\$3.
71	ScreenPorch	Num	8	BEST12.	BEST32.
6	Street	Char	4	\$4.	\$4.
55	TotRmsAbvGrd	Num	8	BEST12.	BEST32.
39	TotalBsmtSF	Num	8	BEST12.	BEST32.
10	Utilities	Char	6	\$6.	\$6.
67	WoodDeckSF	Num	8	BEST12.	BEST32.
20	YearBuilt	Num	8	BEST12.	BEST32.
21	YearRemodAdd	Num	8	BEST12.	BEST32.
78	YrSold	Num	8	BEST12.	BEST32.

Obs	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig	LandSlope
1	1	60	RL	65	8450	Pave	NA	Reg	Lvl	AllPub	Inside	Gtl
2	2	20	RL	80	9600	Pave	NA	Reg	Lvl	AllPub	FR2	Gtl
3	3	60	RL	68	11250	Pave	NA	IR1	Lvl	AllPub	Inside	Gtl

Obs	Neighborhood	Condition1	Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt	YearRemodAdd	RoofStyle
1	CollgCr	Norm	Norm	1Fam	2Story	7	5	2003	2003	Gable
2	Veenker	Feedr	Norm	1Fam	1Story	6	8	1976	1976	Gable
3	CollgCr	Norm	Norm	1Fam	2Story	7	5	2001	2002	Gable

Obs	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond	Foundation	BsmtQual	BsmtCond
1	CompShg	VinylSd	VinylSd	BrkFace	196	Gd	TA	PCconc	Gd	TA
2	CompShg	MetalSd	MetalSd	None	0	TA	TA	CBlock	Gd	TA
3	CompShg	VinylSd	VinylSd	BrkFace	162	Gd	TA	PCconc	Gd	TA

Obs	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	Heating	HeatingQC
1	No	GLQ	706	Unf	0	150	856	GasA	Ex
2	Gd	ALQ	978	Unf	0	284	1262	GasA	Ex
3	Mn	GLQ	486	Unf	0	434	920	GasA	Ex

Obs	CentralAir	Electrical	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	BsmtHalfBath	FullBath	HalfBath
1	Y	SBrkr	856	854	0	1710	1	0	2	1
2	Y	SBrkr	1262	0	0	1262	0	1	2	0
3	Y	SBrkr	920	866	0	1786	1	0	2	1

Obs	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces	FireplaceQu	GarageType	GarageYrBlt
1	3	1	Gd	8	Typ	0	NA	Attchd	2003
2	3	1	TA	6	Typ	1	TA	Attchd	1976
3	3	1	Gd	6	Typ	1	TA	Attchd	2001

Obs	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive	WoodDeckSF	OpenPorchSF	EnclosedPorch
1	RFn	2	548	TA	TA	Y	0	61	0
2	RFn	2	460	TA	TA	Y	298	0	0
3	RFn	2	608	TA	TA	Y	0	42	0

Obs	3SsnPorch	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature	MiscVal	MoSold	YrSold	SaleType	SaleCondition	SalePrice
1	0	0	0	NA	NA	NA	0	2	2008	WD	Normal	208500
2	0	0	0	NA	NA	NA	0	5	2007	WD	Normal	181500
3	0	0	0	NA	NA	NA	0	9	2008	WD	Normal	223500

Obs	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig	LandSlope
4	4	70	RL	60	9550	Pave	NA	IR1	Lvl	AllPub	Corner	Gtl
5	5	60	RL	84	14260	Pave	NA	IR1	Lvl	AllPub	FR2	Gtl
6	6	50	RL	85	14115	Pave	NA	IR1	Lvl	AllPub	Inside	Gtl

Obs	Neighborhood	Condition1	Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt	YearRemodAdd	RoofStyle
4	Crawfor	Norm	Norm	1Fam	2Story	7	5	1915	1970	Gable
5	NoRidge	Norm	Norm	1Fam	2Story	8	5	2000	2000	Gable
6	Mitchel	Norm	Norm	1Fam	1.5Fin	5	5	1993	1995	Gable

Obs	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond	Foundation	BsmtQual	BsmtCond
4	CompShg	Wd Sdng	Wd Shng	None	0	TA	TA	BrkTil	TA	Gd
5	CompShg	VinylSd	VinylSd	BrkFace	350	Gd	TA	PCconc	Gd	TA
6	CompShg	VinylSd	VinylSd	None	0	TA	TA	Wood	Gd	TA

Obs	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	Heating	HeatingQC
4	No	ALQ	216	Unf	0	540	756	GasA	Gd
5	Av	GLQ	655	Unf	0	490	1145	GasA	Ex
6	No	GLQ	732	Unf	0	64	796	GasA	Ex

Obs	CentralAir	Electrical	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	BsmtHalfBath	FullBath	HalfBath
4	Y	SBrkr	961	756	0	1717	1	0	1	0
5	Y	SBrkr	1145	1053	0	2198	1	0	2	1
6	Y	SBrkr	796	566	0	1362	1	0	1	1

Obs	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces	FireplaceQu	GarageType	GarageYrBlt
4	3	1	Gd	7	Typ	1	Gd	Detchd	1998
5	4	1	Gd	9	Typ	1	TA	Attchd	2000
6	1	1	TA	5	Typ	0	NA	Attchd	1993

Obs	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive	WoodDeckSF	OpenPorchSF	EnclosedPorch
4	Unf	3	642	TA	TA	Y	0	35	272
5	RFn	3	836	TA	TA	Y	192	84	0
6	Unf	2	480	TA	TA	Y	40	30	0

Obs	3SsnPorch	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature	MiscVal	MoSold	YrSold	SaleType	SaleCondition	SalePrice
4	0	0	0	NA	NA	NA	0	2	2006	WD	Abnorml	140000
5	0	0	0	NA	NA	NA	0	12	2008	WD	Normal	250000
6	320	0	0	NA	MnPrv	Shed	700	10	2009	WD	Normal	143000

Obs	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig	LandSlope
7	7	20	RL	75	10084	Pave	NA	Reg	Lvl	AllPub	Inside	Gtl
8	8	60	RL	NA	10382	Pave	NA	IR1	Lvl	AllPub	Corner	Gtl

Obs	Neighborhood	Condition1	Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt	YearRemodAdd	RoofStyle
7	Somerst	Norm	Norm	1Fam	1Story	8	5	2004	2005	Gable
8	NWAmes	PosN	Norm	1Fam	2Story	7	6	1973	1973	Gable

Obs	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond	Foundation	BsmtQual	BsmtCond
7	CompShg	VinylSd	VinylSd	Stone	186	Gd	TA	PConc	Ex	TA
8	CompShg	HdBoard	HdBoard	Stone	240	TA	TA	CBlock	Gd	TA

Obs	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	Heating	HeatingQC
7	Av	GLQ	1369	Unf	0	317	1686	GasA	Ex
8	Mn	ALQ	859	BLQ	32	216	1107	GasA	Ex

Obs	CentralAir	Electrical	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	BsmtHalfBath	FullBath	HalfBath
7	Y	SBrkr	1694	0	0	1694	1	0	2	0
8	Y	SBrkr	1107	983	0	2090	1	0	2	1

Obs	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces	FireplaceQu	GarageType	GarageYrBlt
7	3	1	Gd	7	Typ	1	Gd	Attchd	2004
8	3	1	TA	7	Typ	2	TA	Attchd	1973

Obs	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive	WoodDeckSF	OpenPorchSF	EnclosedPorch
7	RFn	2	636	TA	TA	Y	255	57	0
8	RFn	2	484	TA	TA	Y	235	204	228

Obs	3SsnPorch	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature	MiscVal	MoSold	YrSold	SaleType	SaleCondition	SalePrice
7	0	0	0	NA	NA	NA	0	8	2007	WD	Normal	307000
8	0	0	0	NA	NA	Shed	350	11	2009	WD	Normal	200000

Obs	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig	LandSlope
9	9	50	RM	51	6120	Pave	NA	Reg	Lvl	AllPub	Inside	Gtl
10	10	190	RL	50	7420	Pave	NA	Reg	Lvl	AllPub	Corner	Gtl

Obs	Neighborhood	Condition1	Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt	YearRemodAdd	RoofStyle
9	OldTown	Artery	Norm	1Fam	1.5Fin	7	5	1931	1950	Gable
10	BrkSide	Artery	Artery	2fmCon	1.5Unf	5	6	1939	1950	Gable

Obs	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	ExterCond	Foundation	BsmtQual	BsmtCond
9	CompShg	BrkFace	Wd Shng	None	0	TA	TA	BrkTil	TA	TA
10	CompShg	MetalSd	MetalSd	None	0	TA	TA	BrkTil	TA	TA

Obs	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	Heating	HeatingQC
9	No	Unf	0	Unf	0	952	952	GasA	Gd
10	No	GLQ	851	Unf	0	140	991	GasA	Ex

Obs	CentralAir	Electrical	1stFlrSF	2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	BsmtHalfBath	FullBath	HalfBath
9	Y	FuseF	1022	752	0	1774	0	0	2	0
10	Y	SBrkr	1077	0	0	1077	1	0	1	0

Obs	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces	FireplaceQu	GarageType	GarageYrBlt
9	2	2	TA	8	Min1	2	TA	Detchd	1931
10	2	2	TA	5	Typ	2	TA	Attchd	1939

Obs	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive	WoodDeckSF	OpenPorchSF	EnclosedPorch
9	Unf	2	468	Fa	TA	Y	90	0	205
10	RFn	1	205	Gd	TA	Y	0	4	0

Obs	3SsnPorch	ScreenPorch	PoolArea	PoolQC	Fence	MiscFeature	MiscVal	MoSold	YrSold	SaleType	SaleCondition	SalePrice
9	0	0	0	NA	NA	NA	0	4	2008	WD	Abnorml	129900
10	0	0	0	NA	NA	NA	0	1	2008	WD	Normal	118000

The GLMSELECT Procedure

Data Set	WORK.TRAIN_6
Dependent Variable	SalePrice_I
Selection Method	Stepwise
Select Criterion	Significance Level
Stop Criterion	Significance Level
Choose Criterion	Cross Validation
Entry Significance Level (SLE)	0.15
Stay Significance Level (SLS)	0.15
Cross Validation Method	Split
Cross Validation Fold	5
Effect Hierarchy Enforced	Single

Number of Observations Read	2919
Number of Observations Used	1452

Class Level Information		
Class	Levels	Values
LotConfig	5	Corner CulDSac FR2 FR3 Inside
BldgType	5	1Fam 2fmCon Duplex Twnhs TwnhsE
HouseStyle	8	1.5Fin 1.5Unf 1Story 2.5Fin 2.5Unf 2Story SFoyer SLvl

Dimensions	
Number of Effects	79
Number of Parameters	268

The GLMSELECT Procedure

Stepwise Selection Summary									
Step	Effect Entered	Effect Removed	Number Effects In	NumberParms In	Model R-Square	PRESS	CV PRESS	F Value	Pr > F
0	Intercept		1	1	0.0000	231.7413	231.7520	0.00	1.0000
1	GrLlvArea_I		2	2	0.5338	108.2539	108.0105	1660.27	<.0001
2	YearBuilt		3	3	0.7152	66.2858	66.1688	923.15	<.0001
3	OverallCond		4	4	0.7585	56.2813	56.1909	259.37	<.0001
4	TotalBsmtSF		5	5	0.7987	48.1391	47.7174	288.66	<.0001
5	GarageCars		6	6	0.8193	43.2619	42.7619	165.58	<.0001
6	Fireplaces		7	7	0.8293	40.9988	40.5333	84.23	<.0001
7	GrLlvArea*TotalBsmtS		8	8	0.8374	42.5758	41.2275	72.05	<.0001
8	GrLlvArea*GarageCars		9	9	0.8446	39.6681	38.8164	66.68	<.0001
9	BldgType		10	13	0.8515	38.4791	37.8080	16.77	<.0001
10	OverallCon*YearBuilt		11	14	0.8564	37.4904	36.6067	49.39	<.0001
11	GarageCars*BldgType		12	18	0.8598	36.5759	35.7486	8.50	<.0001
12	LotArea		13	19	0.8622	36.0785	35.0199	24.96	<.0001
13	LotArea*TotalBsmtSF		14	20	0.8677	34.6398	34.3765	59.67	<.0001
14	LotArea*BldgType		15	24	0.8705	35.3676	36.1535	7.64	<.0001
15	YearBuilt*GarageCars		16	25	0.8723	34.1876	35.3079	20.81	<.0001
16	GrLlvArea_I*BldgType		17	29	0.8744	33.7030	34.6511	5.88	0.0001
17	GrLlvArea*Fireplaces		18	30	0.8753	33.6894	34.6048	10.06	0.0015
18	YearBuilt*Fireplaces		19	31	0.8762	33.6243	34.5685	10.71	0.0011
19	LotArea*OverallCond		20	32	0.8770	32.6085	32.9927	8.95	0.0028
20	MasVnrArea		21	33	0.8777	32.4870	32.9503	7.82	0.0052
21	YearBuilt*MasVnrArea		22	34	0.8798	31.9990	32.3638	25.60	<.0001
22	LotArea*MasVnrArea		23	35	0.8804	31.8657	33.0916	7.09	0.0078
23	TotalBsmtSF*BldgType		24	39	0.8814	31.6064	32.7742	2.94	0.0196
24	HouseStyle		25	46	0.8826	31.8251	33.2271	2.11	0.0401
25	LotArea*HouseStyle		26	53	0.8840	30.8112	32.2177	2.39	0.0196
26	LotArea*OverallCond		25	52	0.8840	30.6752	31.8846	0.00	0.9495
27	LotArea*MasVnrArea		24	51	0.8839	30.3569	30.9245	1.01	0.3149
28	YearBuilt*TotalBsmtS		25	52	0.8845	30.3918	30.8383	6.41	0.0115
29	GrLlvArea*HouseStyle		26	59	0.8863	29.9452	30.3767	3.14	0.0027
30	MasVnrAre*TotalBsmtS		27	60	0.8867	29.6586*	30.2084*	5.26	0.0220
31	TotalBsmt*Fireplaces		28	61	0.8873	30.4285	30.6471	7.71	0.0056
32	MasVnrAre*HouseStyle		29	65	0.8881	30.4410	30.9851	2.31	0.0559
33	GrLlvArea*MasVnrArea		30	66	0.8884	30.1878	30.7333	3.88	0.0490

* Optimal Value of Criterion

The GLMSELECT Procedure

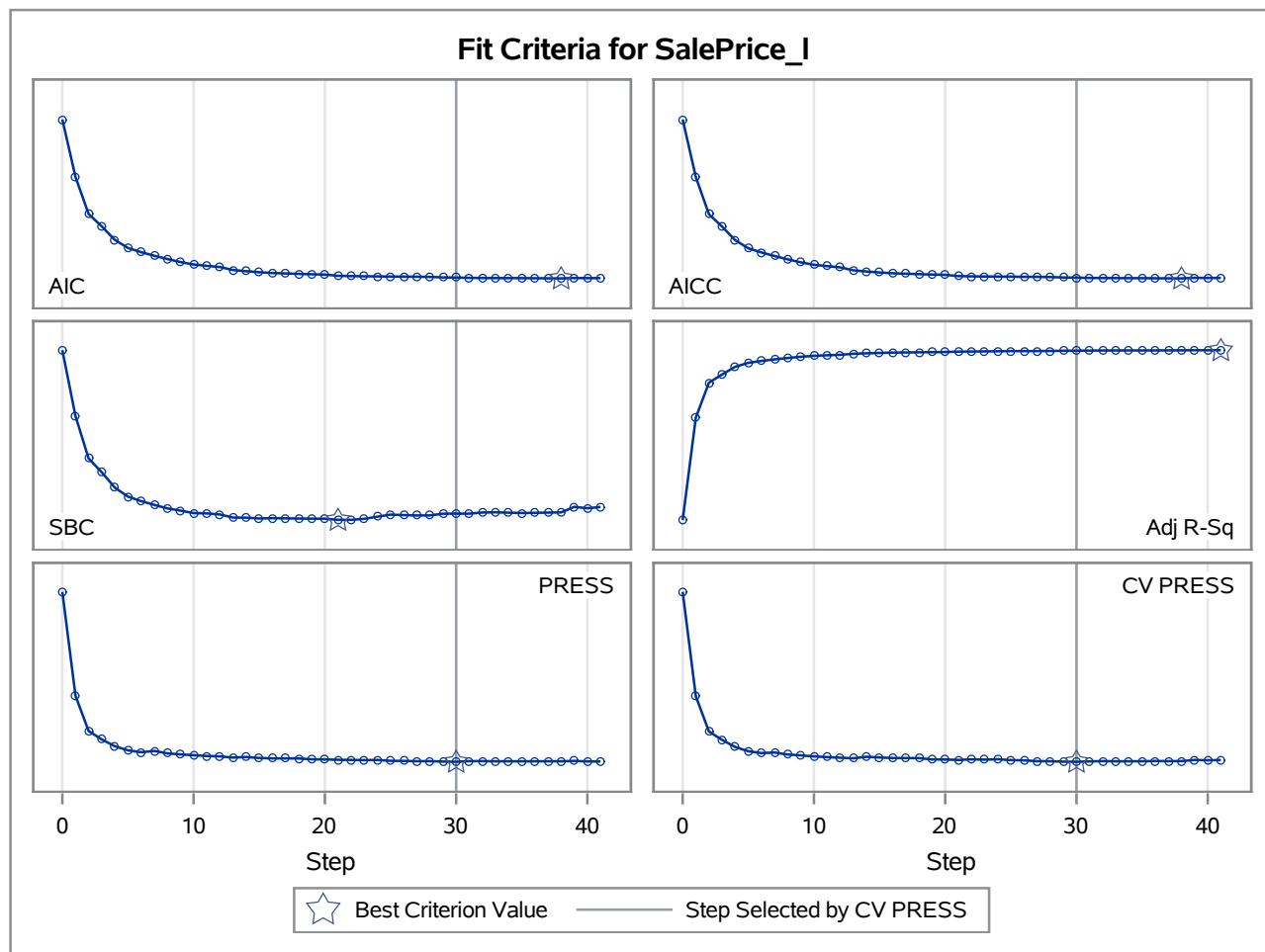
Stepwise Selection Summary									
Step	Effect Entered	Effect Removed	Number Effects In	NumberParms In	Model R-Square	PRESS	CV PRESS	F Value	Pr > F
34		GrLlvArea*GarageCars	29	65	0.8883	30.2142	30.7689	1.21	0.2719
35		GrLlvArea*Fireplaces	28	64	0.8882	30.2256	30.8274	1.45	0.2294
36	LotArea*GarageCars		29	65	0.8885	30.2319	31.1388	3.94	0.0475
37	GrLlvArea*OverallCon		30	66	0.8887	30.2605	30.9216	3.34	0.0679
38	OverallCo*Fireplaces		31	67	0.8890	30.2414	31.0363	3.32	0.0688
39	BldgType*HouseStyle		32	83	0.8909	30.6517	32.3585	1.45	0.1099
40		LotArea*BldgType	31	79	0.8904	30.0717	32.0215	1.47	0.2083
41	YearBuilt*BldgType		32	83	0.8910	30.0667	32.3019	1.96	0.0978

* Optimal Value of Criterion

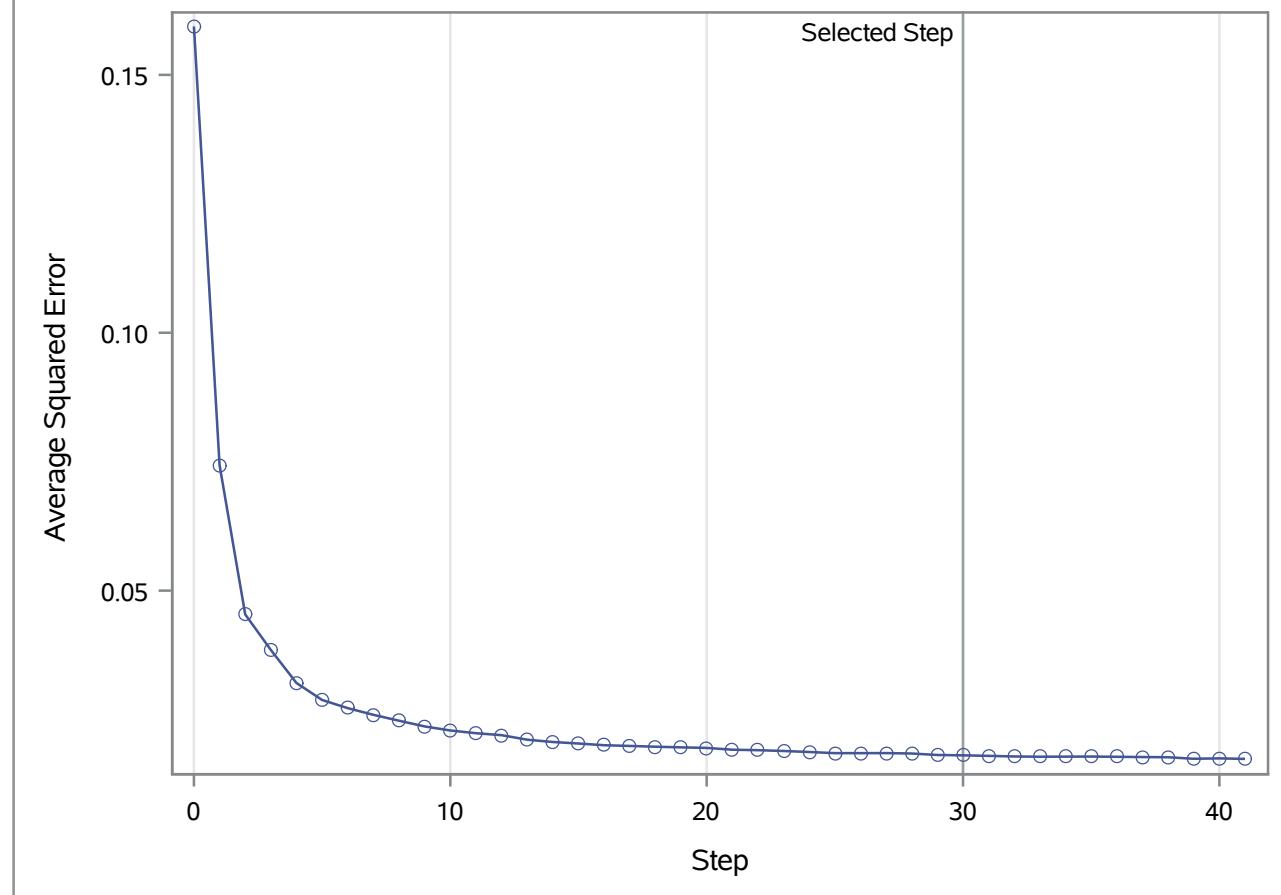
Selection stopped because the candidate for entry has SLE > 0.15 and the candidate for removal has SLS < 0.15.

Stop Details					
Candidate For	Effect	Candidate Significance		Compare Significance	
Entry	MasVnrAre*GarageCars	0.1537	>	0.1500	(SLE)
Removal	YearBuilt*BldgType	0.0978	<	0.1500	(SLS)

The GLMSELECT Procedure



The GLMSELECT Procedure

Progression of Average Squared Errors for SalePrice_I

The GLMSELECT Procedure
Selected Model

The selected model, based on Cross Validation, is the model at Step 30.

Effects:	Intercept GrLlvArea_I LotArea OverallCond YearBuilt OverallCon*YearBuilt MasVnrArea YearBuilt*MasVnrArea TotalBsmtSF GrLlvArea*TotalBsmtS LotArea*TotalBsmtSF YearBuilt*TotalBsmtS MasVnrAre*TotalBsmtS Fireplaces GrLlvArea*Fireplaces YearBuilt*Fireplaces BldgType GrLlvArea_I*BldgType LotArea*BldgType TotalBsmtSF*BldgType HouseStyle GrLlvArea*HouseStyle LotArea*HouseStyle GarageCars GrLlvArea*GarageCars YearBuilt*GarageCars GarageCars*BldgType
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Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Value
Model	59	205.20111	3.47798	184.64
Error	1392	26.22110	0.01884	
Corrected Total	1451	231.42221		

Root MSE	0.13725
Dependent Mean	12.02239
R-Square	0.8867
Adj R-Sq	0.8819
AIC	-4254.52099
AICC	-4249.07926
PRESS	29.65861
SBC	-5391.67915
CV PRESS	30.20836

Cross Validation Details			
Index	Observations		CV PRESS
	Fitted	Left Out	
1	1161	291	6.2804
2	1161	291	5.8660
3	1162	290	6.3536
4	1162	290	5.3297
5	1162	290	6.3788
Total			30.2084

The GLMSELECT Procedure
Selected Model

Parameter Estimates									
Parameter	DF	Estimate	Standard Error	t Value	Cross Validation Estimates				
					1	2	3	4	5
Intercept	1	-2.723117	2.003442	-1.36	-1.15E+01	-1.13E+01	-9.41E+00	-9.43E+00	-7.86E+00
GrLlvArea_I	1	0.227061	0.114207	1.99	4.61E-01	3.55E-01	2.02E-01	2.48E-01	2.10E-02
LotArea	1	0.000038833	0.000008674	4.48	8.38E-06	1.81E-05	1.73E-05	2.21E-05	1.29E-05
OverallCond	1	1.483282	0.254059	5.84	1.98E+00	1.67E+00	1.60E+00	1.88E+00	1.77E+00
YearBuilt	1	0.006056	0.000951	6.37	9.76E-03	9.98E-03	9.58E-03	9.45E-03	9.41E-03
OverallCon*YearBuilt	1	-0.000723	0.000130	-5.54	-8.61E-04	-6.95E-04	-6.92E-04	-8.46E-04	-7.57E-04
MasVnrArea	1	-0.011980	0.002384	-5.02	-1.91E-02	-1.91E-02	-1.47E-02	-1.68E-02	-1.81E-02
YearBuilt*MasVnrArea	1	0.000006129	0.000001208	5.07	8.77E-06	8.61E-06	6.76E-06	8.47E-06	8.01E-06
TotalBsmtSF	1	-0.002463	0.000974	-2.53	-2.08E-03	-1.69E-03	-2.11E-03	-2.41E-03	-1.76E-03
GrLlvArea*TotalBsmtS	1	-0.000087622	0.000035176	-2.49	-1.36E-04	-1.68E-04	-1.11E-05	-3.10E-05	-1.20E-04
LotArea*TotalBsmtSF	1	-6.931356E-9	8.599561E-10	-8.06	-7.31E-09	-6.53E-09	-9.14E-09	-8.69E-09	-6.57E-09
YearBuilt*TotalBsmtS	1	0.000001780	0.000000514	3.46	1.80E-06	1.79E-06	1.42E-06	1.64E-06	1.74E-06
MasVnrAre*TotalBsmtS	1	-0.000000104	4.5266795E-8	-2.29	-2.78E-07	-3.05E-07	-1.64E-07	-3.48E-07	-3.51E-07
Fireplaces	1	1.528772	0.491937	3.11	2.34E+00	2.08E+00	2.01E+00	2.41E+00	1.63E+00
GrLlvArea*Fireplaces	1	0.061453	0.022485	2.73	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
YearBuilt*Fireplaces	1	-0.000980	0.000244	-4.02	-1.27E-03	-1.12E-03	-1.04E-03	-1.26E-03	-8.97E-04
BldgType 1Fam	1	-0.656258	0.492907	-1.33	3.15E+00	5.33E+00	4.05E+00	2.77E+00	2.88E+00
BldgType 2fmCon	1	-0.261310	0.781260	-0.33	7.53E+00	1.05E+01	6.15E+00	1.40E+01	1.13E+01
BldgType Duplex	1	0.953535	0.707931	1.35	8.48E+00	8.74E+00	5.69E+00	9.45E-01	6.72E+00
BldgType Twnhs	1	-0.575490	1.058496	-0.54	7.71E+00	6.89E+00	4.67E+00	6.28E+00	1.83E+00
GrLlvArea_I*BldgType 1Fam	1	0.121470	0.074058	1.64	2.56E-01	3.07E-01	3.25E-01	2.81E-01	5.70E-01
GrLlvArea_I*BldgType 2fmCon	1	0.053630	0.112154	0.48	3.73E-01	4.97E-01	3.38E-01	3.07E-01	6.74E-01
GrLlvArea_I*BldgType Duplex	1	-0.080923	0.103327	-0.78	-2.52E-02	-2.75E-02	-5.02E-02	1.06E-02	2.43E-01
GrLlvArea_I*BldgType Twnhs	1	0.093756	0.159460	0.59	4.90E-02	3.77E-01	1.03E+00	3.90E-01	5.74E-01
LotArea*BldgType 1Fam	1	-0.000019291	0.000006731	-2.87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LotArea*BldgType 2fmCon	1	-0.000019393	0.000006866	-2.82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LotArea*BldgType Duplex	1	-0.000026533	0.000009514	-2.79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LotArea*BldgType Twnhs	1	0.000139	0.000056792	2.45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TotalBsmtSF*BldgType 1Fam	1	-0.000114	0.000058321	-1.95	-2.36E-04	-3.56E-04	-3.07E-04	-3.30E-04	-5.56E-04
TotalBsmtSF*BldgType 2fmCon	1	0.000043543	0.000113	0.38	-1.21E-04	-2.83E-04	-3.27E-04	-1.98E-04	-3.64E-04
TotalBsmtSF*BldgType Duplex	1	-0.000171	0.000068401	-2.50	-2.43E-04	-3.62E-04	-3.36E-04	-3.52E-04	-5.52E-04
TotalBsmtSF*BldgType Twnhs	1	-0.000653	0.000224	-2.91	-5.37E-04	-1.07E-03	-1.68E-03	-1.13E-03	-1.38E-03
HouseStyle 1.5Fin	1	-1.999140	0.631416	-3.17	-1.55E+00	-1.39E+00	-1.85E+00	-1.59E+00	-1.91E+00

The GLMSELECT Procedure
Selected Model

Parameter Estimates									
Parameter	DF	Estimate	Standard Error	t Value	Cross Validation Estimates				
					1	2	3	4	5
HouseStyle 1.5Unf	1	-0.705176	2.308865	-0.31	-6.97E-01	-1.07E-01	-7.15E-01	-4.62E+00	-1.32E+00
HouseStyle 1Story	1	-0.709673	0.568733	-1.25	-1.40E-01	-7.94E-01	-6.12E-01	-2.67E-01	-1.31E+00
HouseStyle 2.5Fin	1	-2.243883	4.489218	-0.50	7.55E+00	1.94E+00	5.20E+00	-2.27E+00	2.19E+00
HouseStyle 2.5Unf	1	-0.491076	1.715903	-0.29	-7.30E-01	-4.86E+00	-8.61E-01	-1.83E+00	-2.10E+00
HouseStyle 2Story	1	-1.490078	0.589235	-2.53	-1.27E+00	-1.73E+00	-1.91E+00	-1.98E+00	-2.52E+00
HouseStyle SFoyer	1	-0.541316	0.985442	-0.55	9.37E-01	-1.18E+00	-7.20E-01	-1.91E-03	2.47E-01
GrLlvArea*HouseStyle 1.5Fin	1	0.279648	0.089138	3.14	1.82E-01	2.13E-01	2.70E-01	2.13E-01	2.75E-01
GrLlvArea*HouseStyle 1.5Unf	1	0.079030	0.338954	0.23	8.38E-02	-7.68E-02	3.59E-02	5.60E-01	1.69E-01
GrLlvArea*HouseStyle 1Story	1	0.096038	0.081583	1.18	-1.16E-03	8.54E-02	6.75E-02	1.29E-02	1.45E-01
GrLlvArea*HouseStyle 2.5Fin	1	0.278904	0.596909	0.47	-1.00E+00	-3.43E-01	-7.27E-01	2.86E-01	-3.87E-01
GrLlvArea*HouseStyle 2.5Unf	1	0.021281	0.246979	0.09	6.62E-02	5.53E-01	4.07E-02	1.47E-01	1.48E-01
GrLlvArea*HouseStyle 2Story	1	0.213375	0.083424	2.56	1.75E-01	2.50E-01	2.70E-01	2.76E-01	3.58E-01
GrLlvArea*HouseStyle SFoyer	1	0.095101	0.147735	0.64	-1.57E-01	1.60E-01	1.03E-01	-1.73E-02	-9.40E-02
LotArea*HouseStyle 1.5Fin	1	-0.000008635	0.000005465	-1.58	-2.14E-06	-1.15E-05	-1.16E-05	-1.06E-05	-1.17E-05
LotArea*HouseStyle 1.5Unf	1	0.000020097	0.000021643	0.93	3.43E-05	2.44E-05	1.40E-05	2.81E-05	2.13E-05
LotArea*HouseStyle 1Story	1	-0.000003401	0.000005466	-0.62	3.57E-06	-6.57E-06	-8.21E-06	-5.36E-06	-7.00E-06
LotArea*HouseStyle 2.5Fin	1	0.000005668	0.000021696	0.26	6.28E-05	3.38E-05	4.11E-05	4.49E-06	3.85E-05
LotArea*HouseStyle 2.5Unf	1	0.000040366	0.000025852	1.56	3.98E-05	1.56E-05	3.27E-05	2.07E-05	5.05E-05
LotArea*HouseStyle 2Story	1	-0.000008604	0.000005546	-1.55	-6.77E-07	-1.24E-05	-1.19E-05	-1.18E-05	-1.34E-05
LotArea*HouseStyle SFoyer	1	-0.000015673	0.000011217	-1.40	-1.25E-05	-3.83E-05	-2.52E-05	-3.01E-05	-2.01E-05
GarageCars	1	-1.539538	0.411911	-3.74	-7.88E-01	-1.07E+00	-1.24E+00	-1.17E+00	-1.56E+00
GrLlvArea*GarageCars	1	0.030968	0.017656	1.75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
YearBuilt*GarageCars	1	0.000712	0.000206	3.45	4.18E-04	5.37E-04	6.31E-04	5.87E-04	7.87E-04
GarageCars*BldgType 1Fam	1	-0.006707	0.037314	-0.18	1.38E-02	6.92E-02	2.98E-02	7.89E-02	4.07E-02
GarageCars*BldgType 2fmCon	1	-0.076429	0.048728	-1.57	-1.50E-01	-5.88E-02	-9.20E-02	-6.24E-02	-8.31E-02
GarageCars*BldgType Duplex	1	-0.080839	0.041590	-1.94	-2.12E-02	-5.72E-04	-3.78E-02	1.34E-02	-3.21E-02
GarageCars*BldgType Twnhs	1	0.029139	0.066006	0.44	8.59E-02	1.77E-01	1.31E-01	2.60E-01	1.60E-01

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

Number of Observations Read	2919
Number of Observations Used	1452
Number of Observations with Missing Values	1467

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	59	205.20111	3.47798	184.64	<.0001
Error	1392	26.22110	0.01884		
Corrected Total	1451	231.42221			

Root MSE	0.13725	R-Square	0.8867
Dependent Mean	12.02239	Adj R-Sq	0.8819
Coeff Var	1.14160		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	-2.72312	2.00344	-1.36	0.1743
GrLlvArea_I	GrLlvArea_I	1	0.22706	0.11421	1.99	0.0470
LotArea	LotArea	1	0.00003883	0.00000867	4.48	<.0001
OverallCond	OverallCond	1	1.48328	0.25406	5.84	<.0001
YearBuilt	YearBuilt	1	0.00606	0.00095099	6.37	<.0001
OverallCon*YearBuilt	OverallCon*YearBuilt	1	-0.00072272	0.00013037	-5.54	<.0001
MasVnrArea	MasVnrArea	1	-0.01198	0.00238	-5.02	<.0001
YearBuilt*MasVnrArea	YearBuilt*MasVnrArea	1	0.00000613	0.00000121	5.07	<.0001
TotalBsmtSF	TotalBsmtSF	1	-0.00246	0.00097351	-2.53	0.0115
GrLlvArea*TotalBsmtS	GrLlvArea*TotalBsmtS	1	-0.00008762	0.00003518	-2.49	0.0129
LotArea*TotalBsmtSF	LotArea*TotalBsmtSF	1	-6.93136E-9	8.59956E-10	-8.06	<.0001
YearBuilt*TotalBsmtS	YearBuilt*TotalBsmtS	1	0.00000178	5.139578E-7	3.46	0.0006
MasVnrAre*TotalBsmts	MasVnrAre*TotalBsmts	1	-1.03786E-7	4.526679E-8	-2.29	0.0220
Fireplaces	Fireplaces	1	1.52877	0.49194	3.11	0.0019
GrLlvArea*Fireplaces	GrLlvArea*Fireplaces	1	0.06145	0.02249	2.73	0.0064
YearBuilt*Fireplaces	YearBuilt*Fireplaces	1	-0.00098019	0.00024406	-4.02	<.0001
BldgType 1Fam	BldgType 1Fam	1	-0.65626	0.49291	-1.33	0.1833
BldgType 2fmCon	BldgType 2fmCon	1	-0.26131	0.78126	-0.33	0.7381
BldgType Duplex	BldgType Duplex	1	0.95353	0.70793	1.35	0.1782

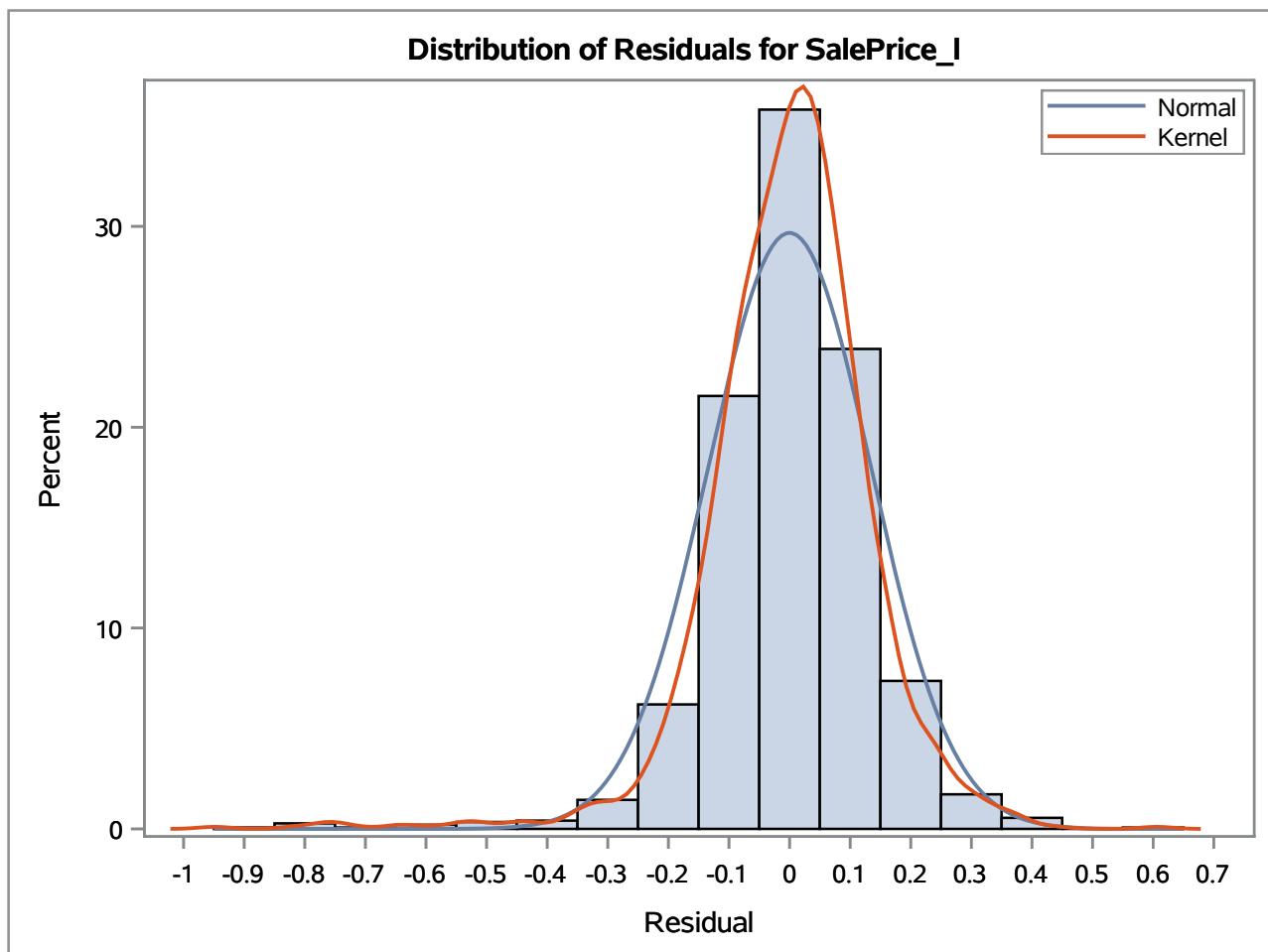
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
BldgType_Twnhs	BldgType_Twnhs	1	-0.57549	1.05850	-0.54	0.5867
GrLlvArea_I*BldgType_1Fam	GrLlvArea_I*BldgType_1Fam	1	0.12147	0.07406	1.64	0.1012
GrLlvArea_I*BldgType_2fmCon	GrLlvArea_I*BldgType_2fmCon	1	0.05363	0.11215	0.48	0.6326
GrLlvArea_I*BldgType_Duplex	GrLlvArea_I*BldgType_Duplex	1	-0.08092	0.10333	-0.78	0.4337
GrLlvArea_I*BldgType_Twnhs	GrLlvArea_I*BldgType_Twnhs	1	0.09376	0.15946	0.59	0.5567
LotArea*BldgType_1Fam	LotArea*BldgType_1Fam	1	-0.00001929	0.00000673	-2.87	0.0042
LotArea*BldgType_2fmCon	LotArea*BldgType_2fmCon	1	-0.00001939	0.00000687	-2.82	0.0048
LotArea*BldgType_Duplex	LotArea*BldgType_Duplex	1	-0.00002653	0.00000951	-2.79	0.0054
LotArea*BldgType_Twnhs	LotArea*BldgType_Twnhs	1	0.00013919	0.00005679	2.45	0.0144
TotalBsmtSF*BldgType_1Fam	TotalBsmtSF*BldgType_1Fam	1	-0.00011363	0.00005832	-1.95	0.0516
TotalBsmtSF*BldgType_2fmCon	TotalBsmtSF*BldgType_2fmCon	1	0.00004354	0.00011334	0.38	0.7009
TotalBsmtSF*BldgType_Duplex	TotalBsmtSF*BldgType_Duplex	1	-0.00017125	0.00006840	-2.50	0.0124
TotalBsmtSF*BldgType_Twnhs	TotalBsmtSF*BldgType_Twnhs	1	-0.00065342	0.00022420	-2.91	0.0036
HouseStyle_1.5Fin	HouseStyle_1.5Fin	1	-1.99914	0.63142	-3.17	0.0016
HouseStyle_1.5Unf	HouseStyle_1.5Unf	1	-0.70518	2.30887	-0.31	0.7601
HouseStyle_1Story	HouseStyle_1Story	1	-0.70967	0.56873	-1.25	0.2123
HouseStyle_2.5Fin	HouseStyle_2.5Fin	1	-2.24388	4.48922	-0.50	0.6173
HouseStyle_2.5Unf	HouseStyle_2.5Unf	1	-0.49108	1.71590	-0.29	0.7748
HouseStyle_2Story	HouseStyle_2Story	1	-1.49008	0.58923	-2.53	0.0116
HouseStyle_SFoyer	HouseStyle_SFoyer	1	-0.54132	0.98544	-0.55	0.5829
GrLlvArea*HouseStyle_1.5Fin	GrLlvArea*HouseStyle_1.5Fin	1	0.27965	0.08914	3.14	0.0017
GrLlvArea*HouseStyle_1.5Unf	GrLlvArea*HouseStyle_1.5Unf	1	0.07903	0.33895	0.23	0.8157
GrLlvArea*HouseStyle_1Story	GrLlvArea*HouseStyle_1Story	1	0.09604	0.08158	1.18	0.2393
GrLlvArea*HouseStyle_2.5Fin	GrLlvArea*HouseStyle_2.5Fin	1	0.27890	0.59691	0.47	0.6404
GrLlvArea*HouseStyle_2.5Unf	GrLlvArea*HouseStyle_2.5Unf	1	0.02128	0.24698	0.09	0.9313
GrLlvArea*HouseStyle_2Story	GrLlvArea*HouseStyle_2Story	1	0.21337	0.08342	2.56	0.0106
GrLlvArea*HouseStyle_SFoyer	GrLlvArea*HouseStyle_SFoyer	1	0.09510	0.14774	0.64	0.5199
LotArea*HouseStyle_1.5Fin	LotArea*HouseStyle_1.5Fin	1	-0.00000863	0.00000547	-1.58	0.1144
LotArea*HouseStyle_1.5Unf	LotArea*HouseStyle_1.5Unf	1	0.00002010	0.00002164	0.93	0.3533
LotArea*HouseStyle_1Story	LotArea*HouseStyle_1Story	1	-0.00000340	0.00000547	-0.62	0.5339
LotArea*HouseStyle_2.5Fin	LotArea*HouseStyle_2.5Fin	1	0.00000567	0.00002170	0.26	0.7939
LotArea*HouseStyle_2.5Unf	LotArea*HouseStyle_2.5Unf	1	0.00004037	0.00002585	1.56	0.1187
LotArea*HouseStyle_2Story	LotArea*HouseStyle_2Story	1	-0.00000860	0.00000555	-1.55	0.1210
LotArea*HouseStyle_SFoyer	LotArea*HouseStyle_SFoyer	1	-0.00001567	0.00001122	-1.40	0.1626

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
GarageCars	GarageCars	1	-1.53954	0.41191	-3.74	0.0002
GrLlvArea*GarageCars	GrLlvArea*GarageCars	1	0.03097	0.01766	1.75	0.0796
YearBuilt*GarageCars	YearBuilt*GarageCars	1	0.00071209	0.00020629	3.45	0.0006
GarageCars*BldgType 1Fam	GarageCars*BldgType 1Fam	1	-0.00671	0.03731	-0.18	0.8574
GarageCars*BldgType 2fmCon	GarageCars*BldgType 2fmCon	1	-0.07643	0.04873	-1.57	0.1170
GarageCars*BldgType Duplex	GarageCars*BldgType Duplex	1	-0.08084	0.04159	-1.94	0.0521
GarageCars*BldgType Twnhs	GarageCars*BldgType Twnhs	1	0.02914	0.06601	0.44	0.6590

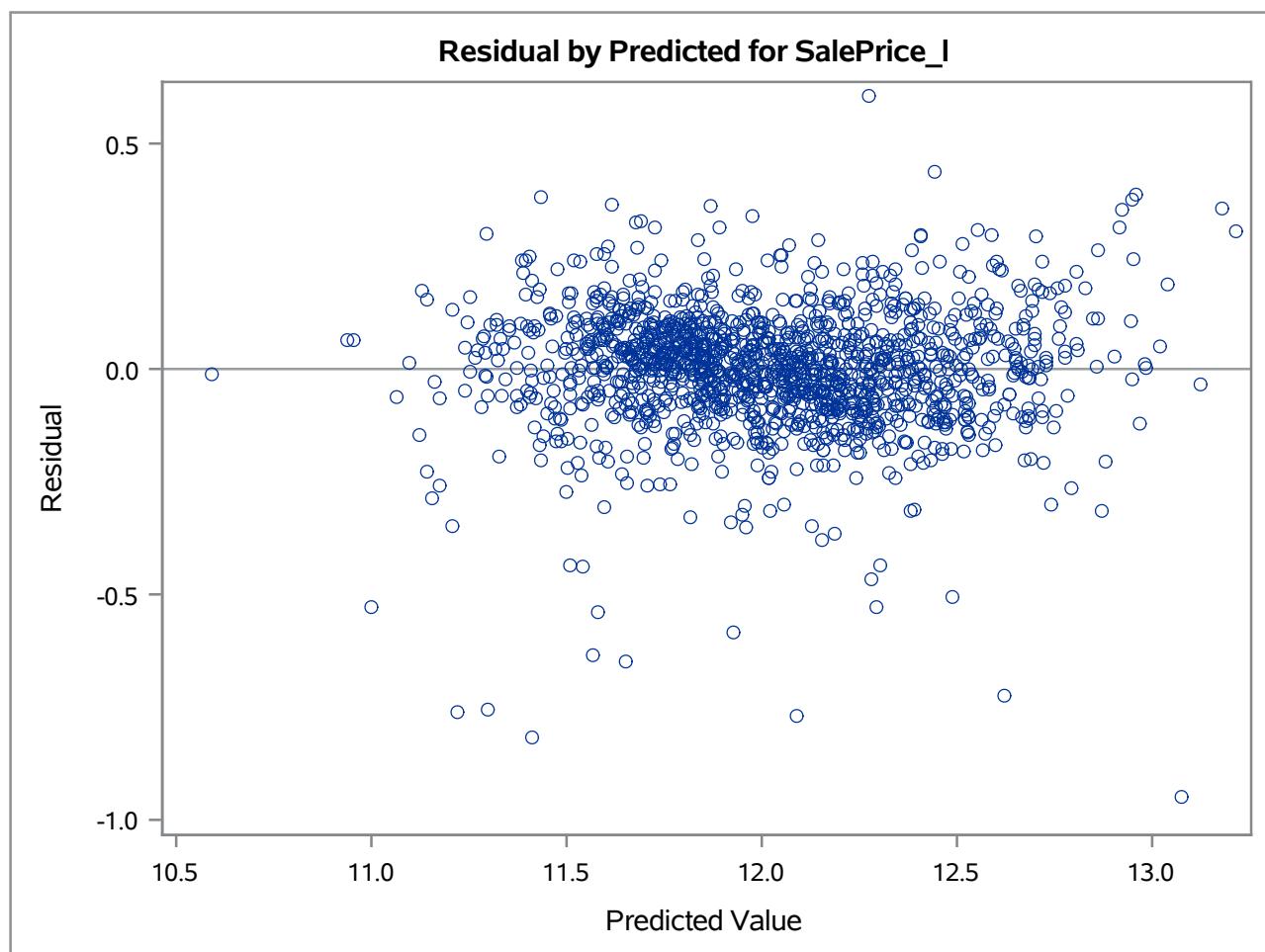
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



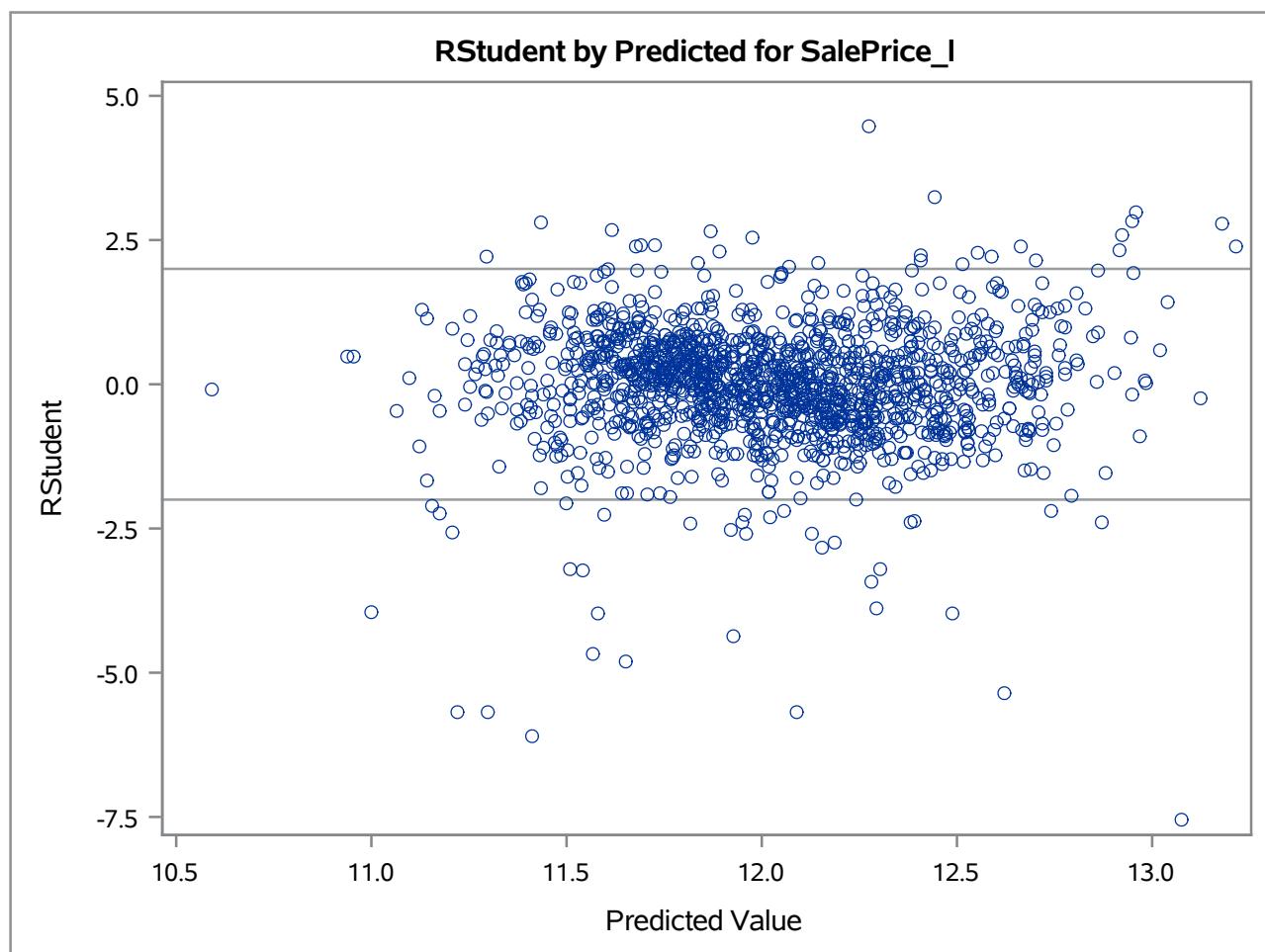
The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I



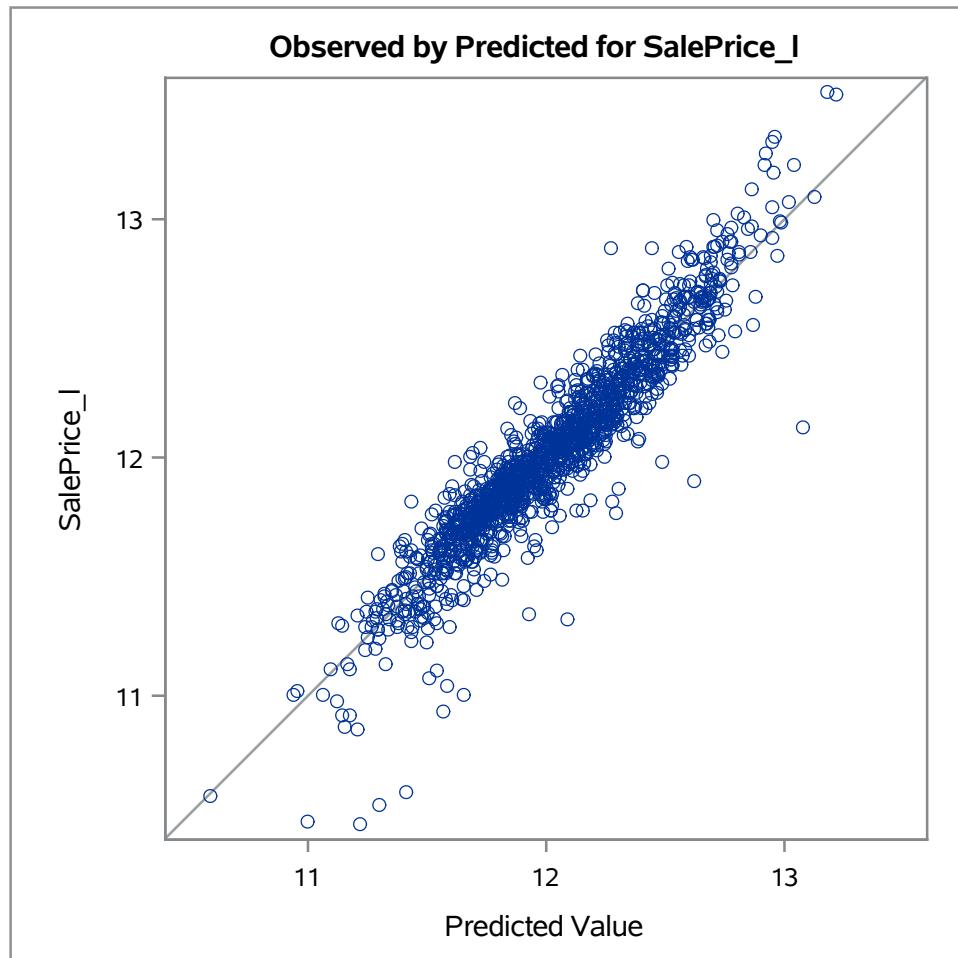
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Dependent Variable: SalePrice_I



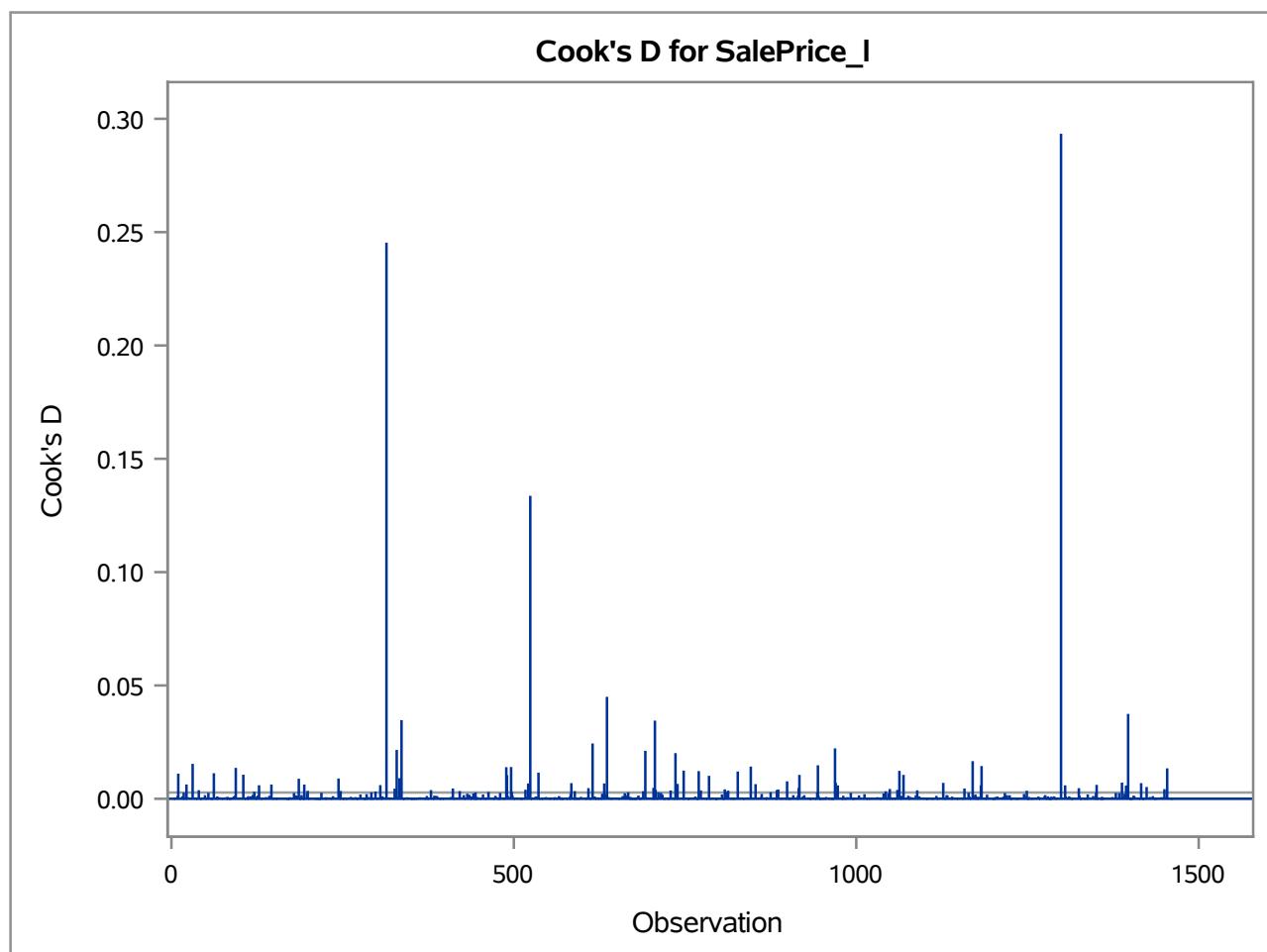
The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I



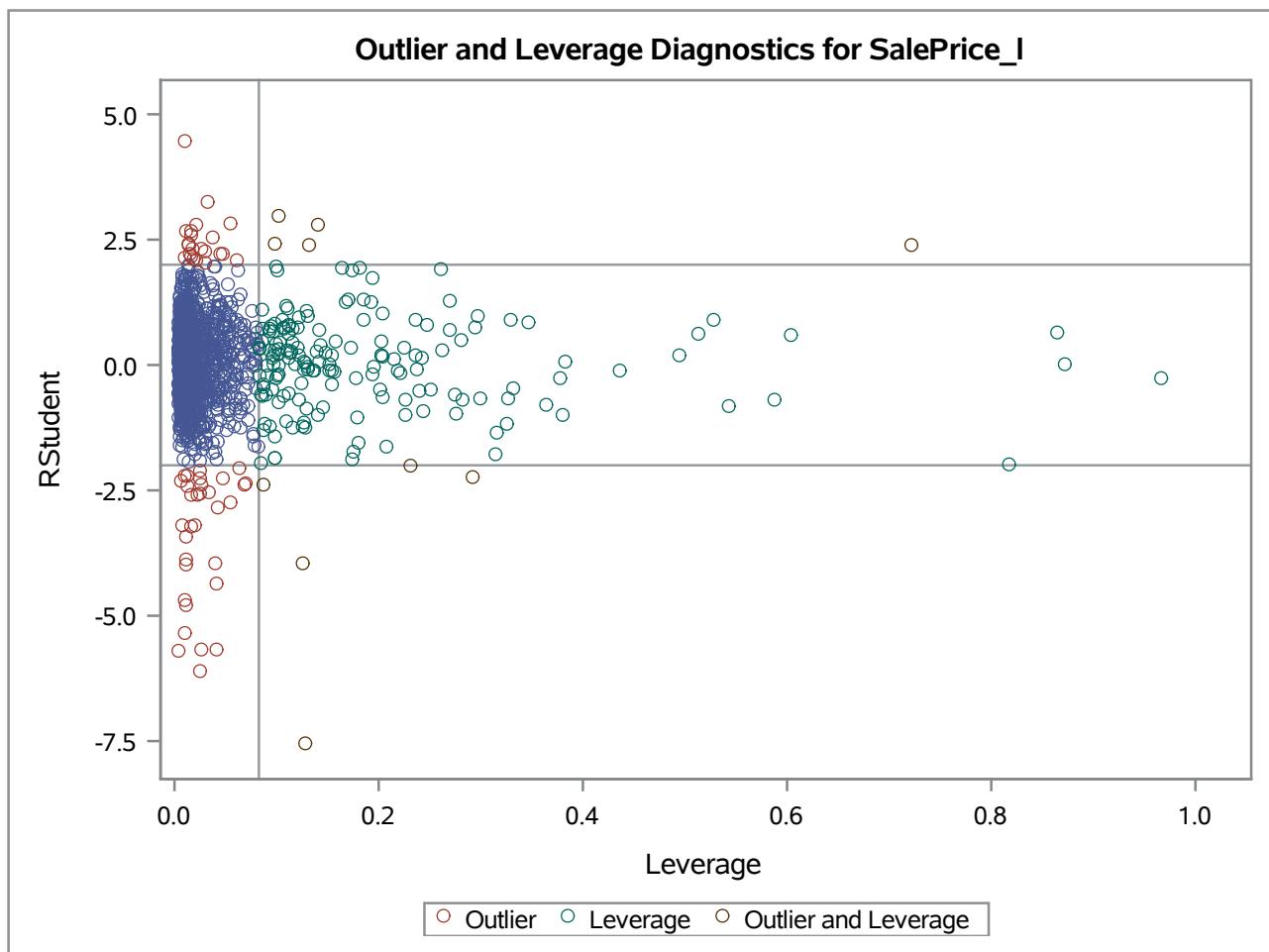
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Dependent Variable: SalePrice_I



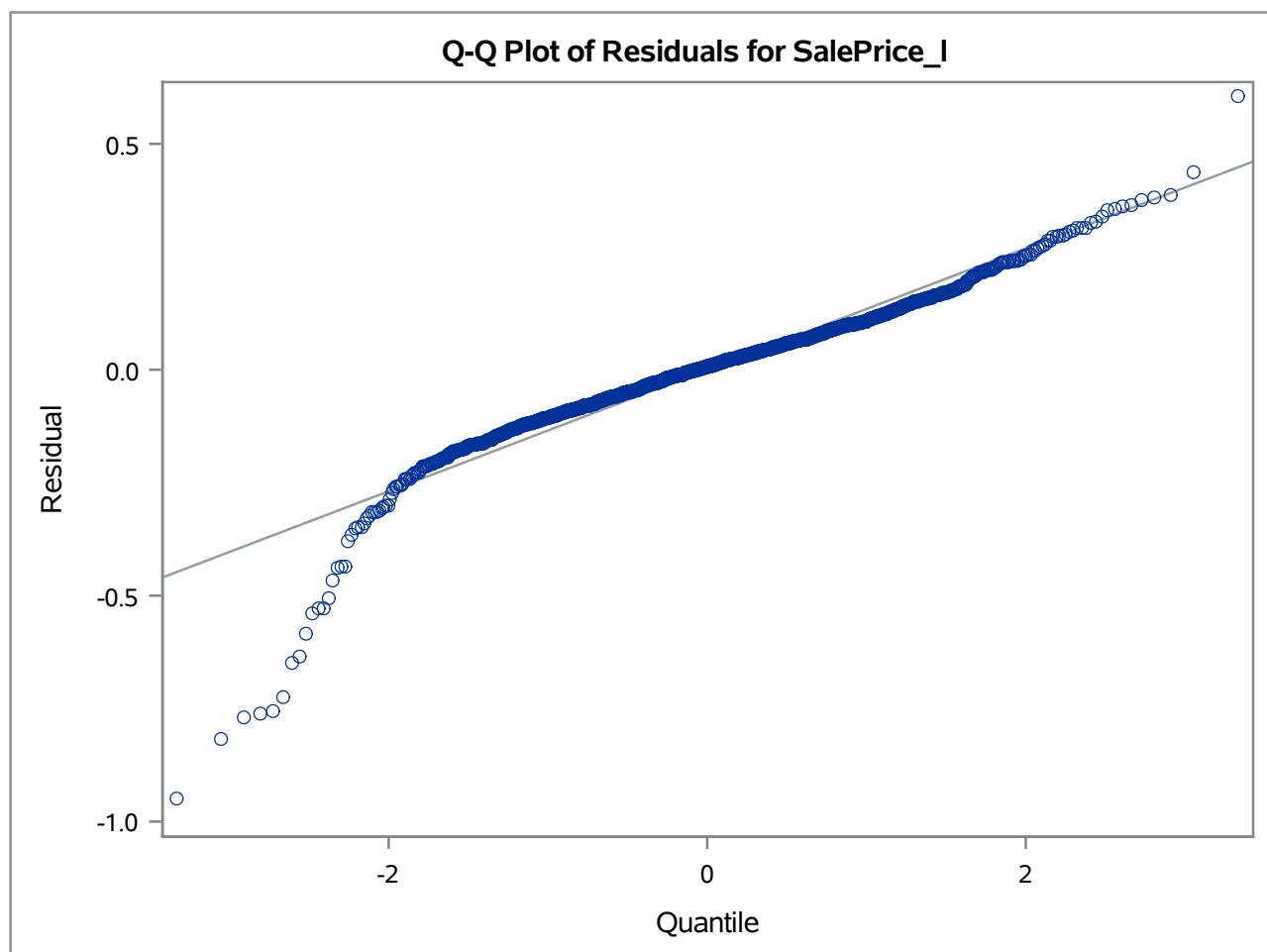
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Model: MODEL1

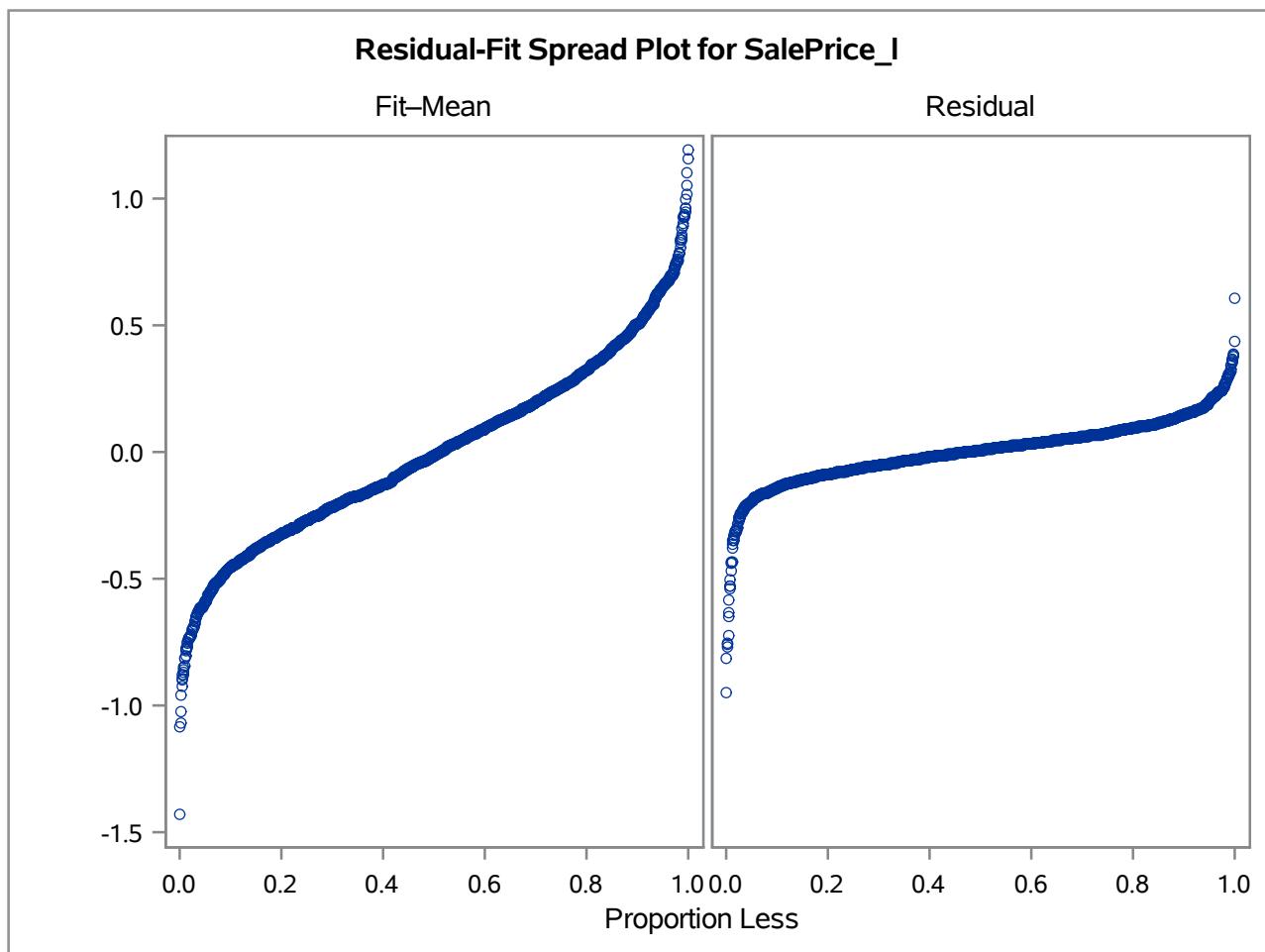
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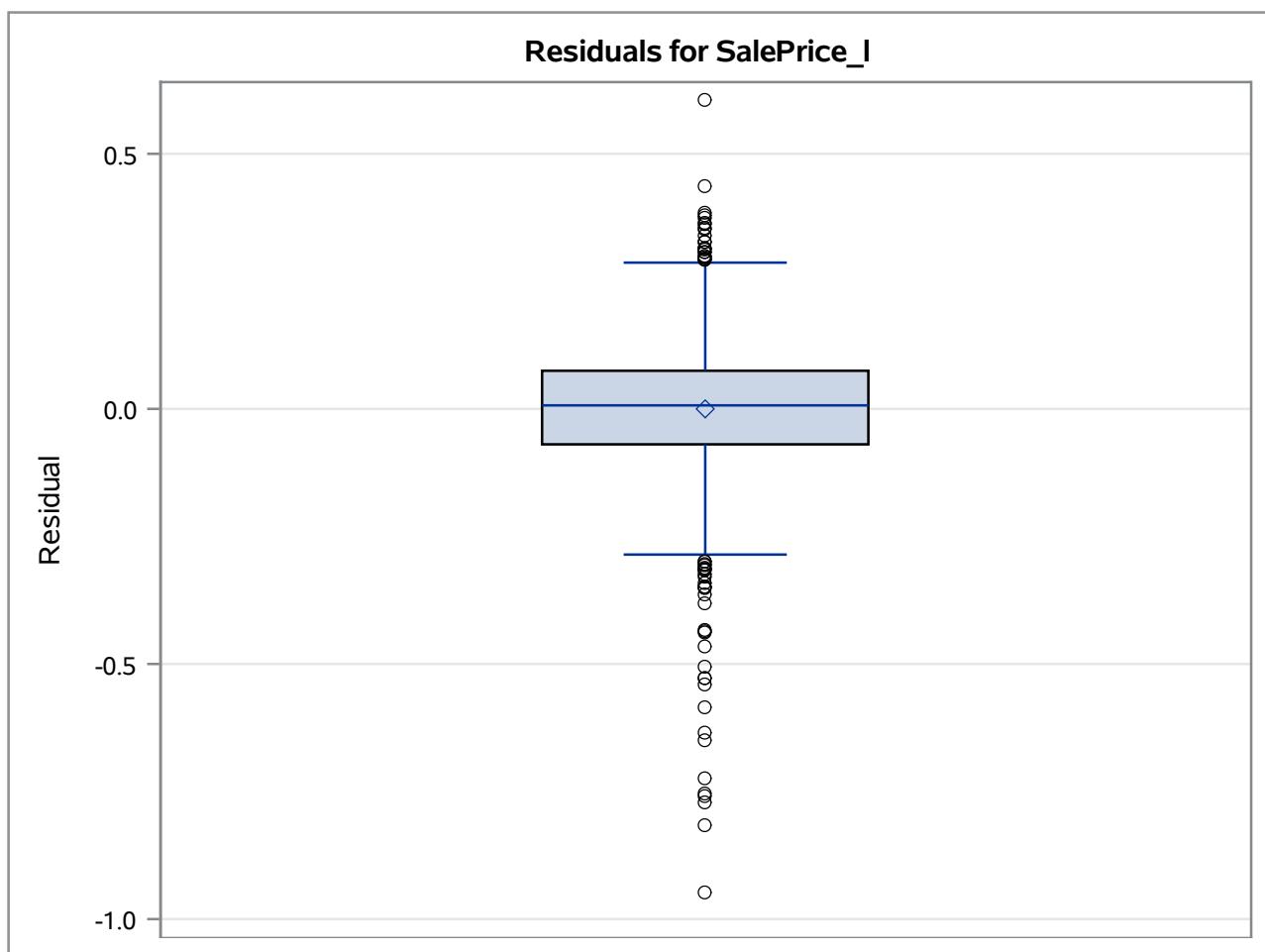
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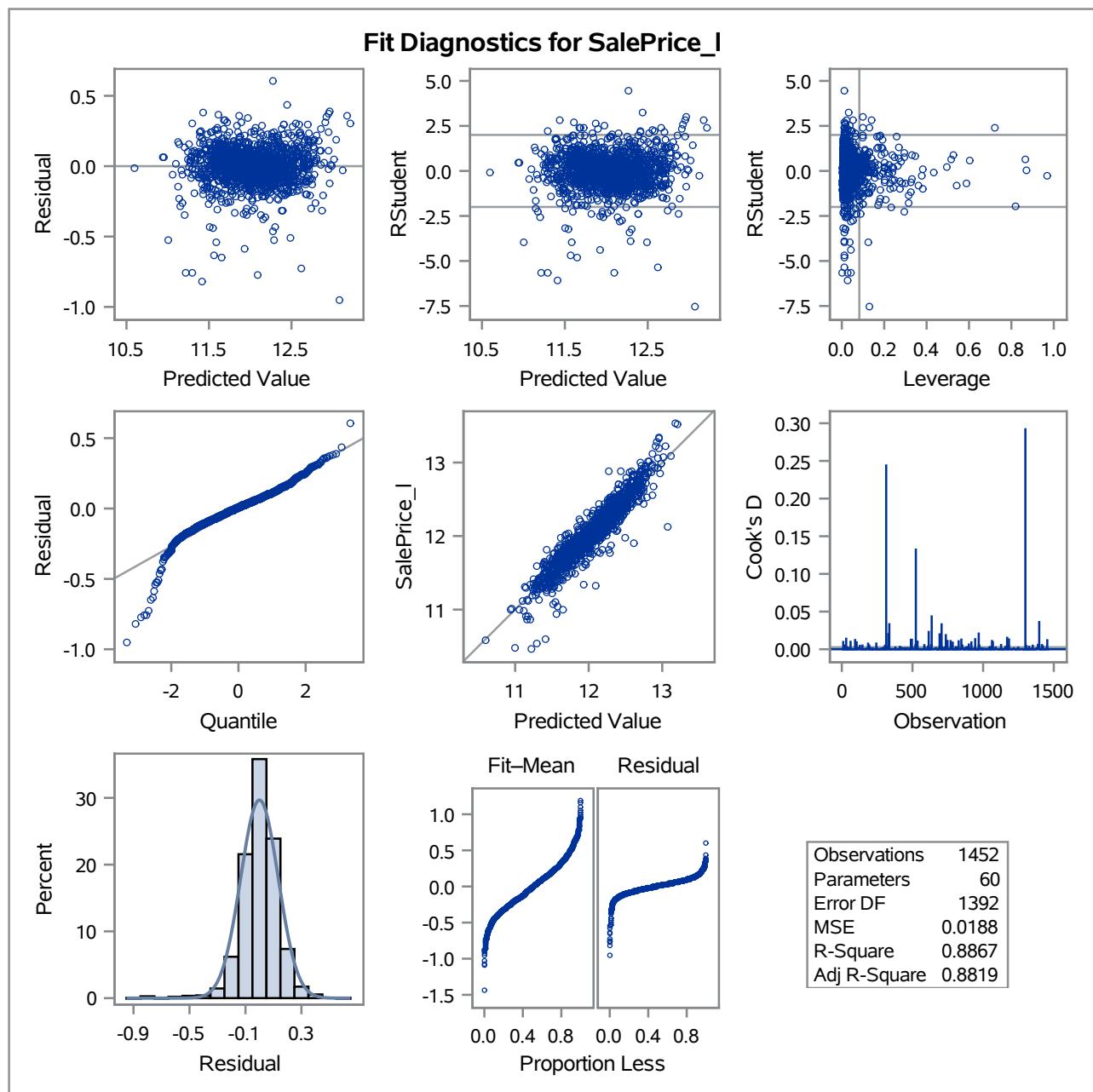
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Dependent Variable: SalePrice_I



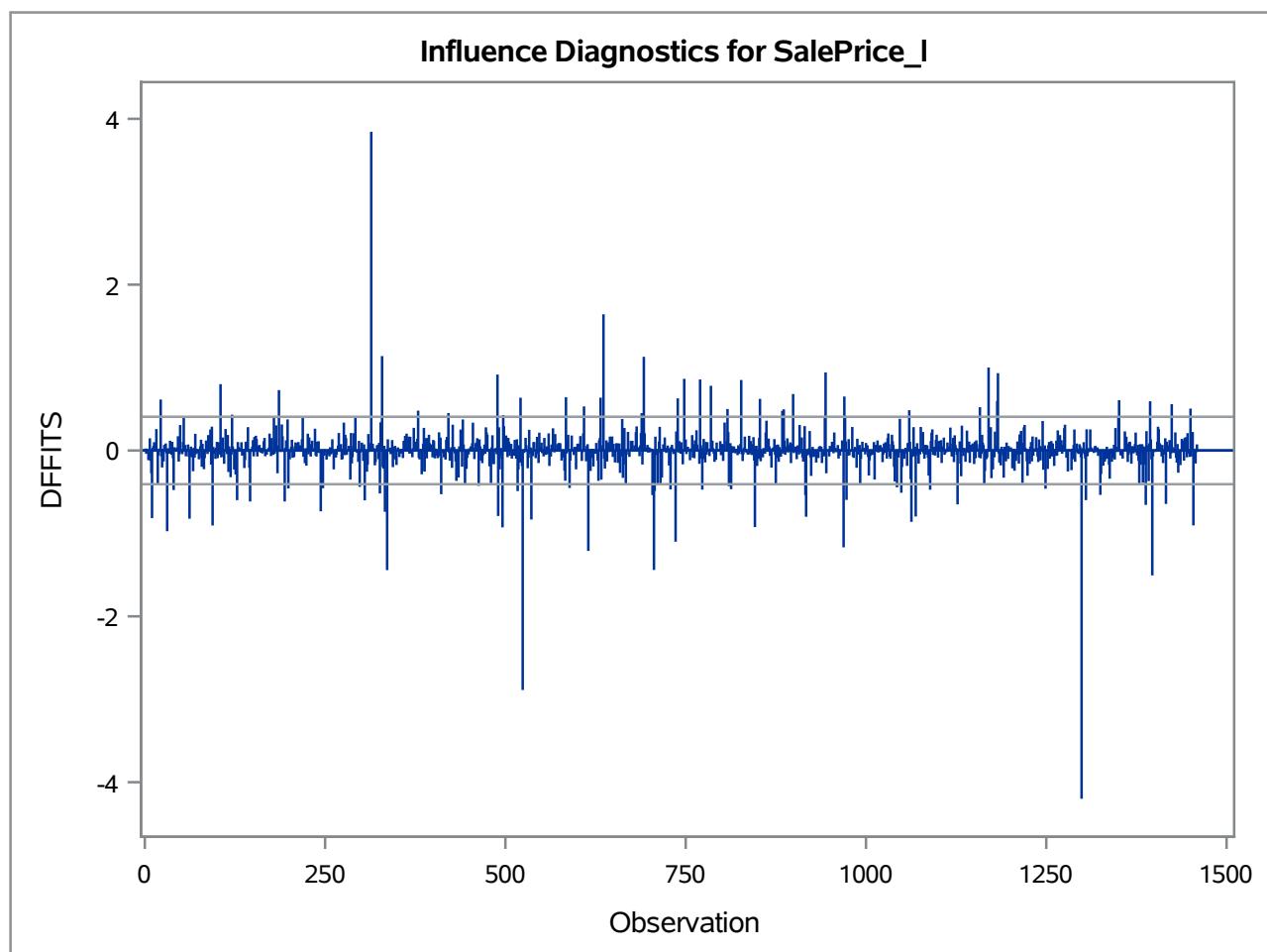
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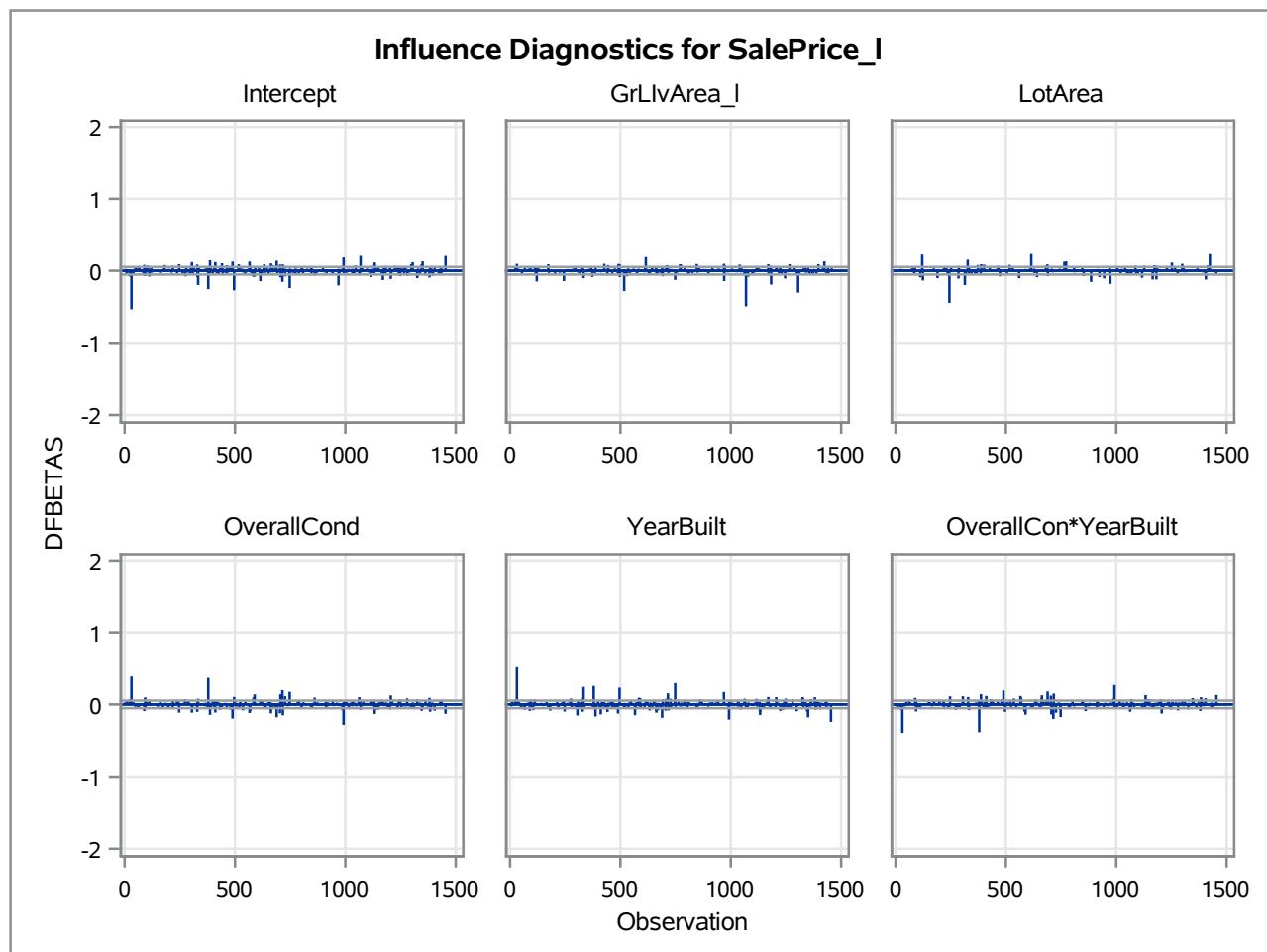
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Model: MODEL1
Dependent Variable: SalePrice_I



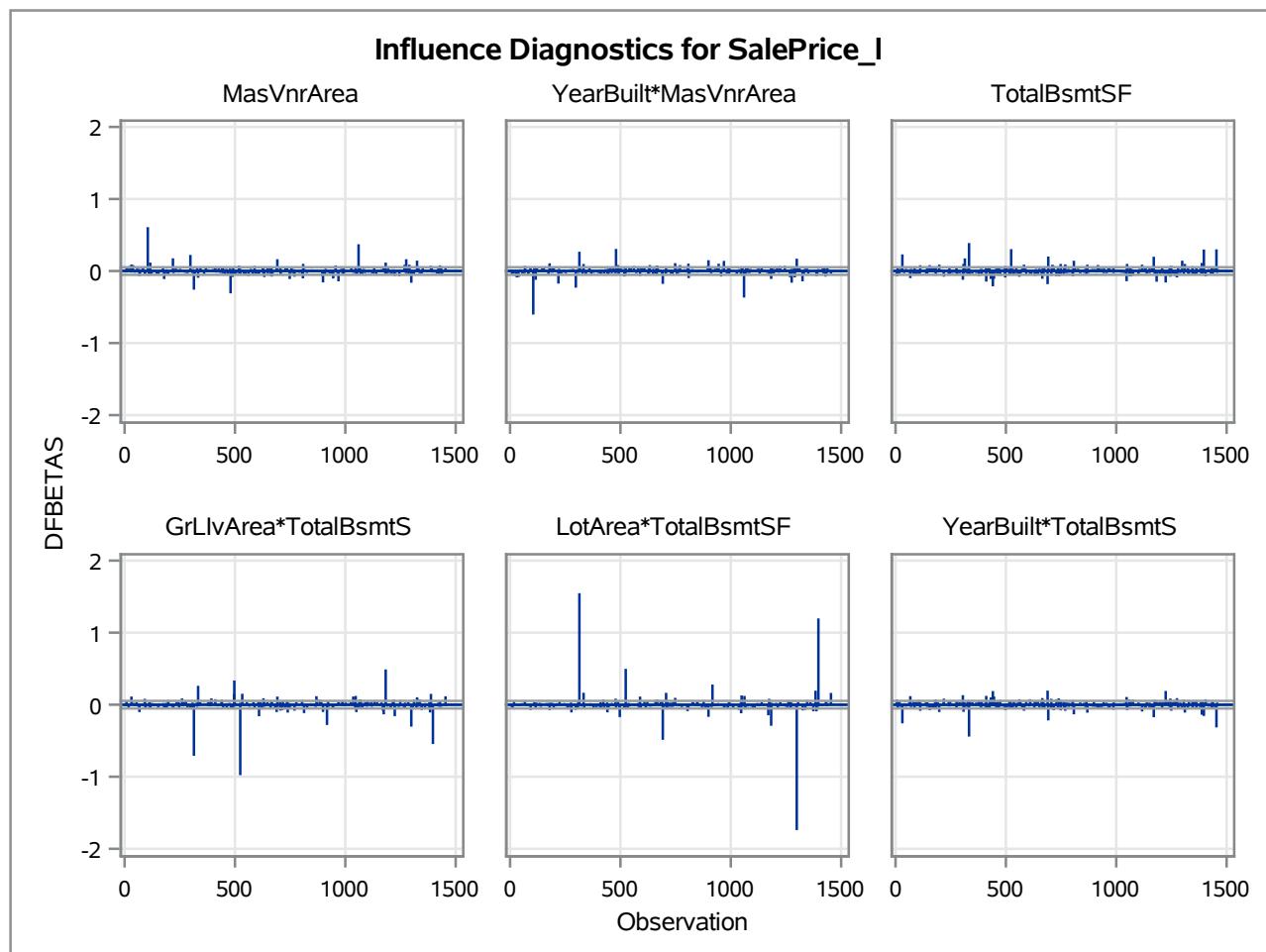
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Dependent Variable: SalePrice_I



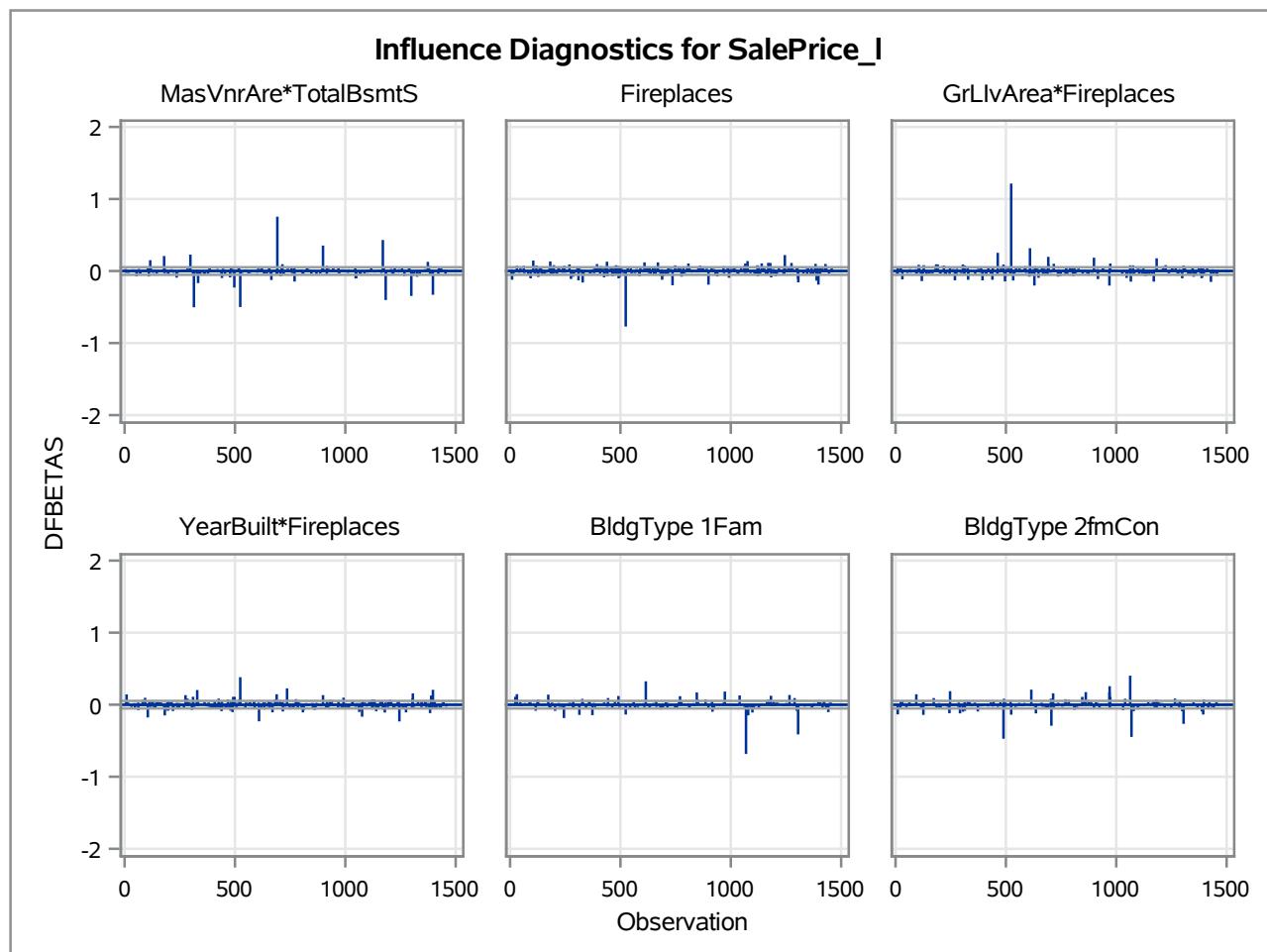
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Dependent Variable: SalePrice_I



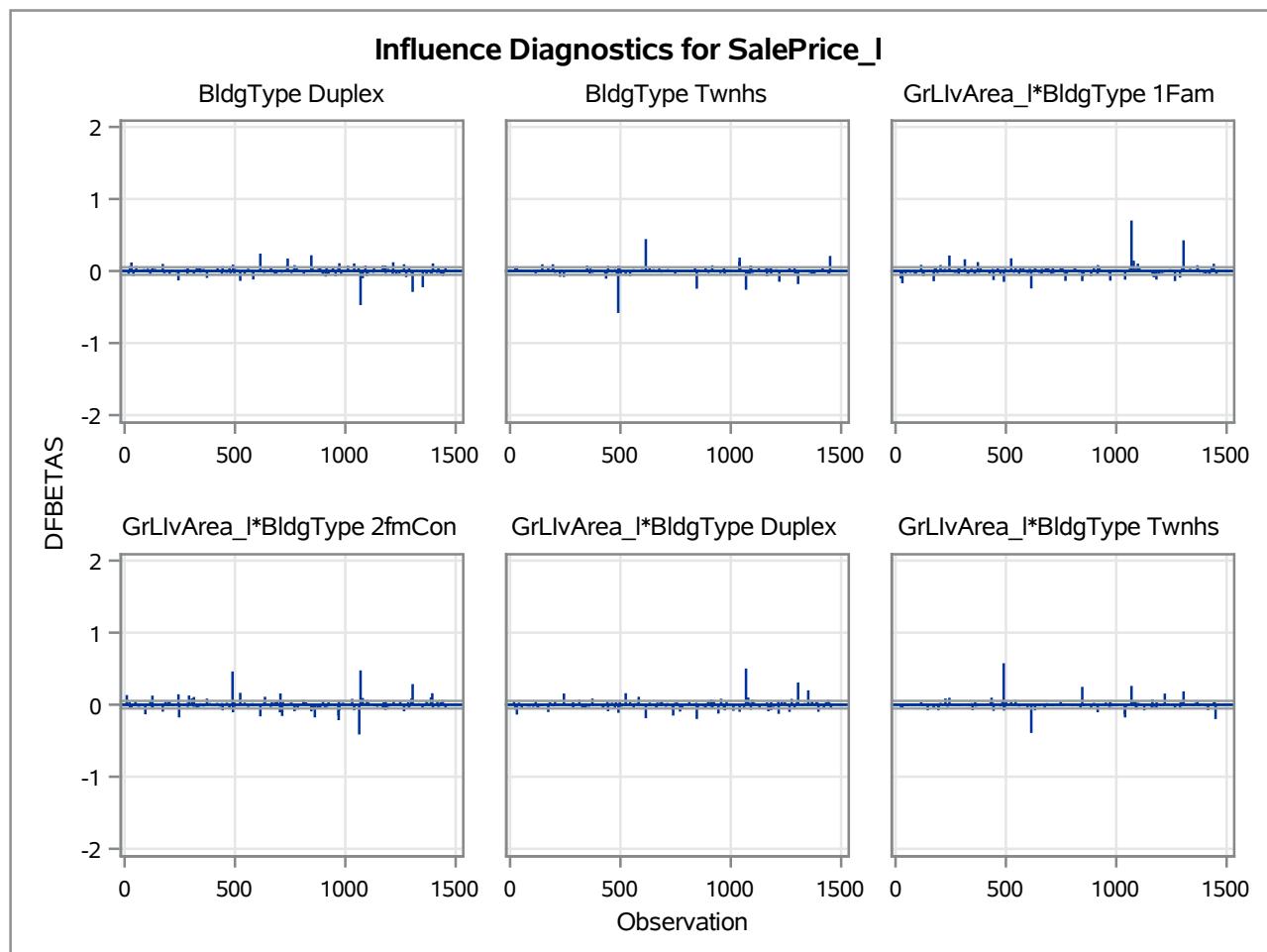
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Dependent Variable: SalePrice_I



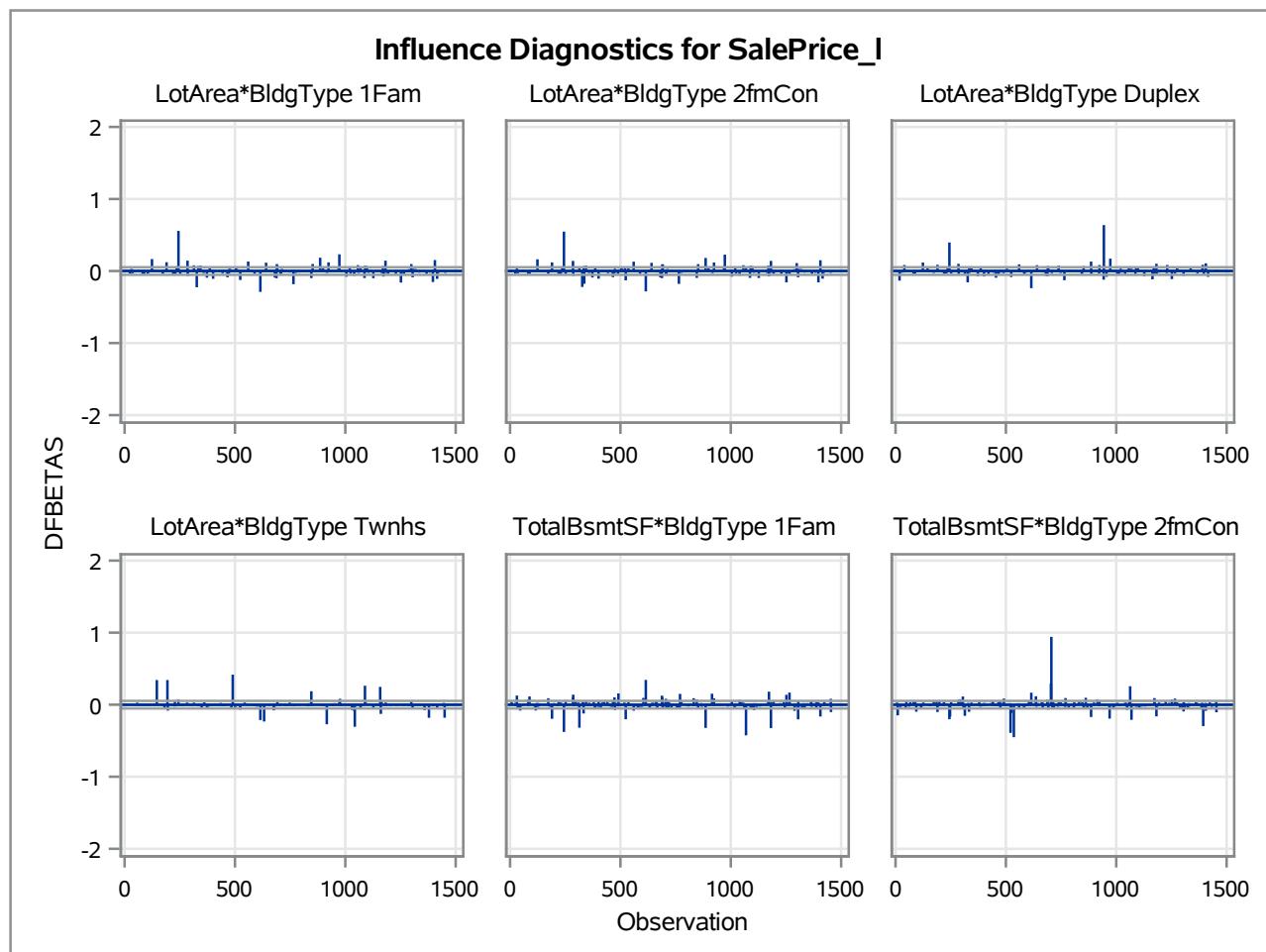
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Dependent Variable: SalePrice_I



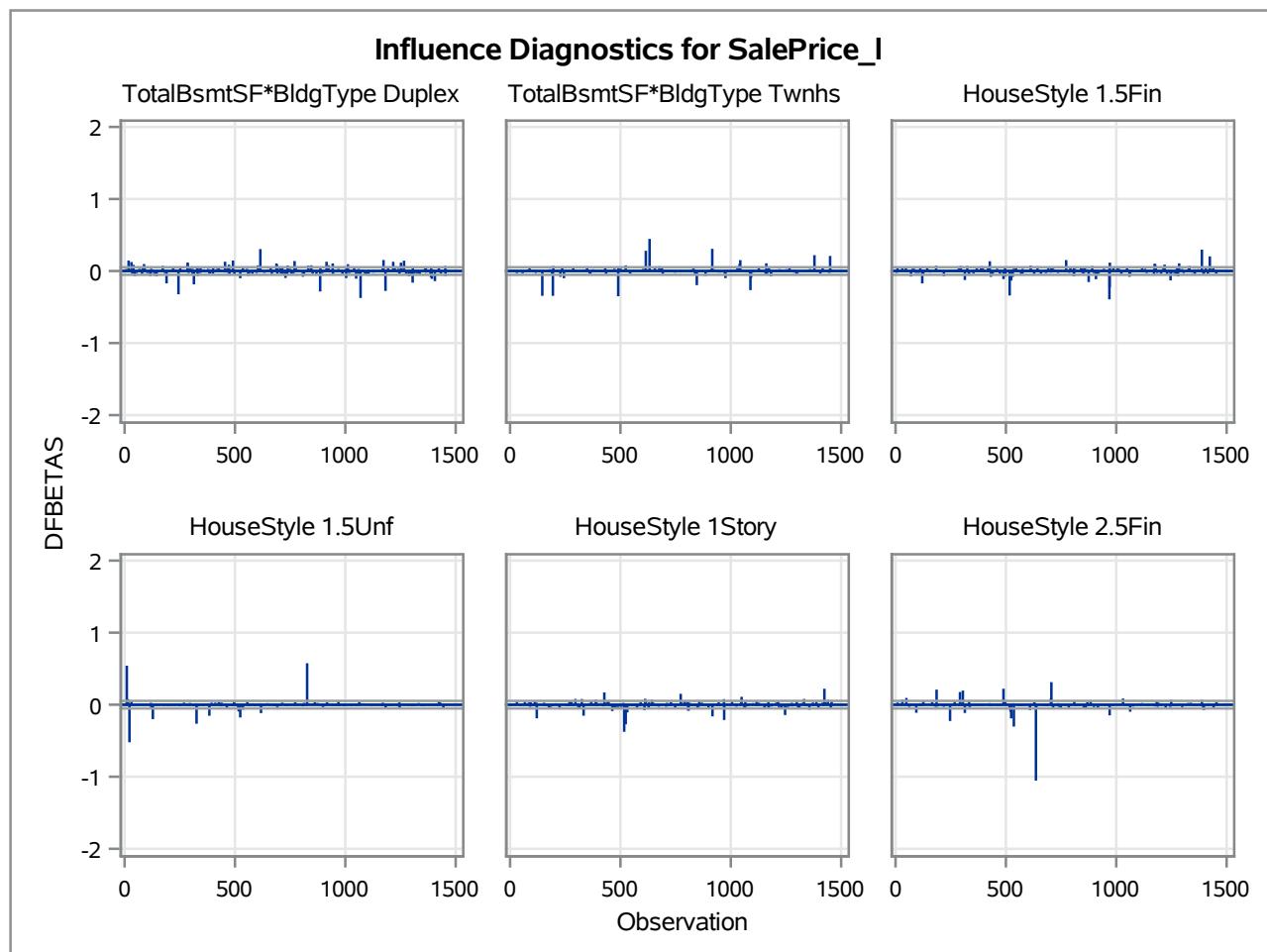
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Dependent Variable: SalePrice_I



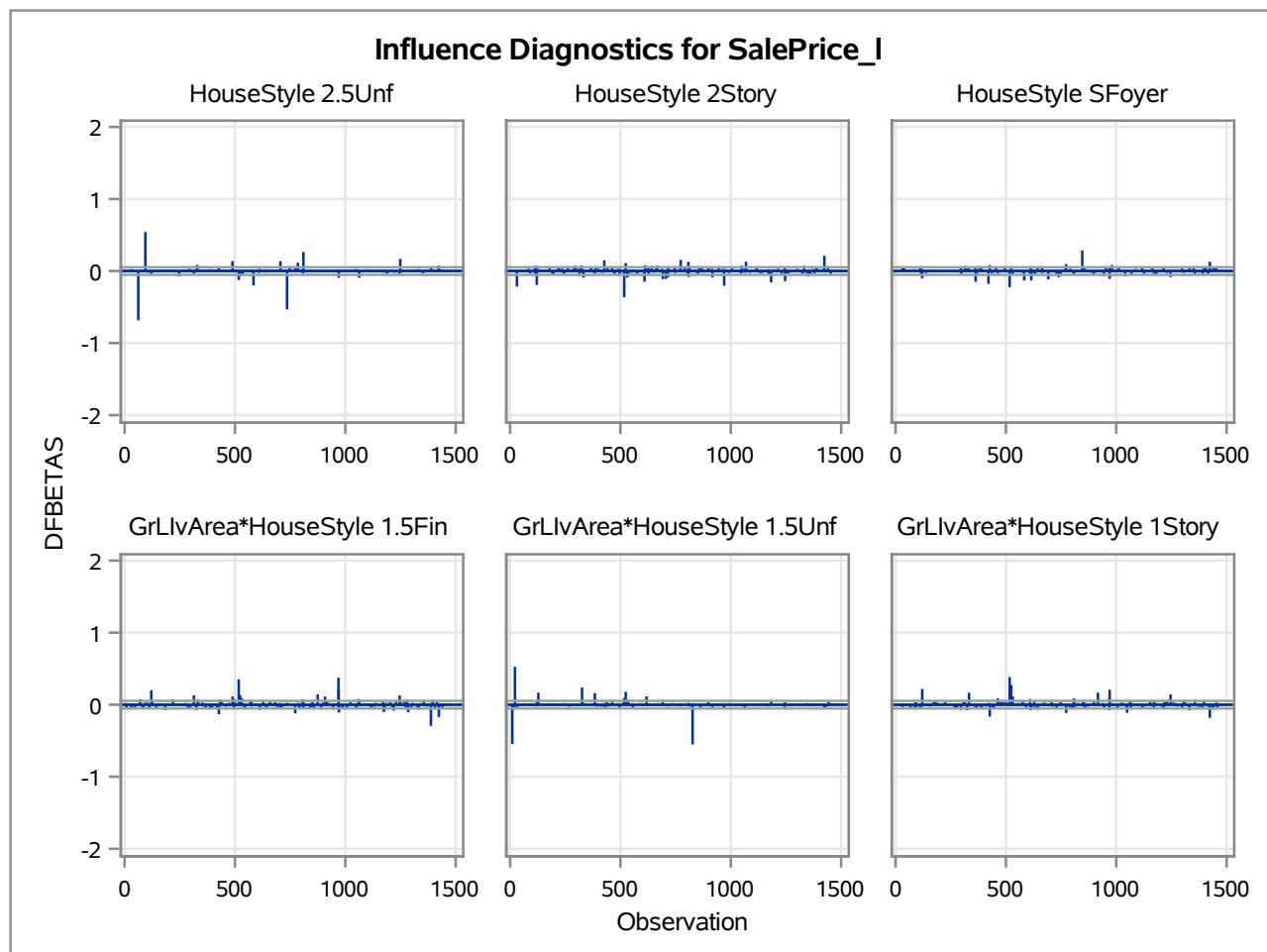
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Dependent Variable: SalePrice_I



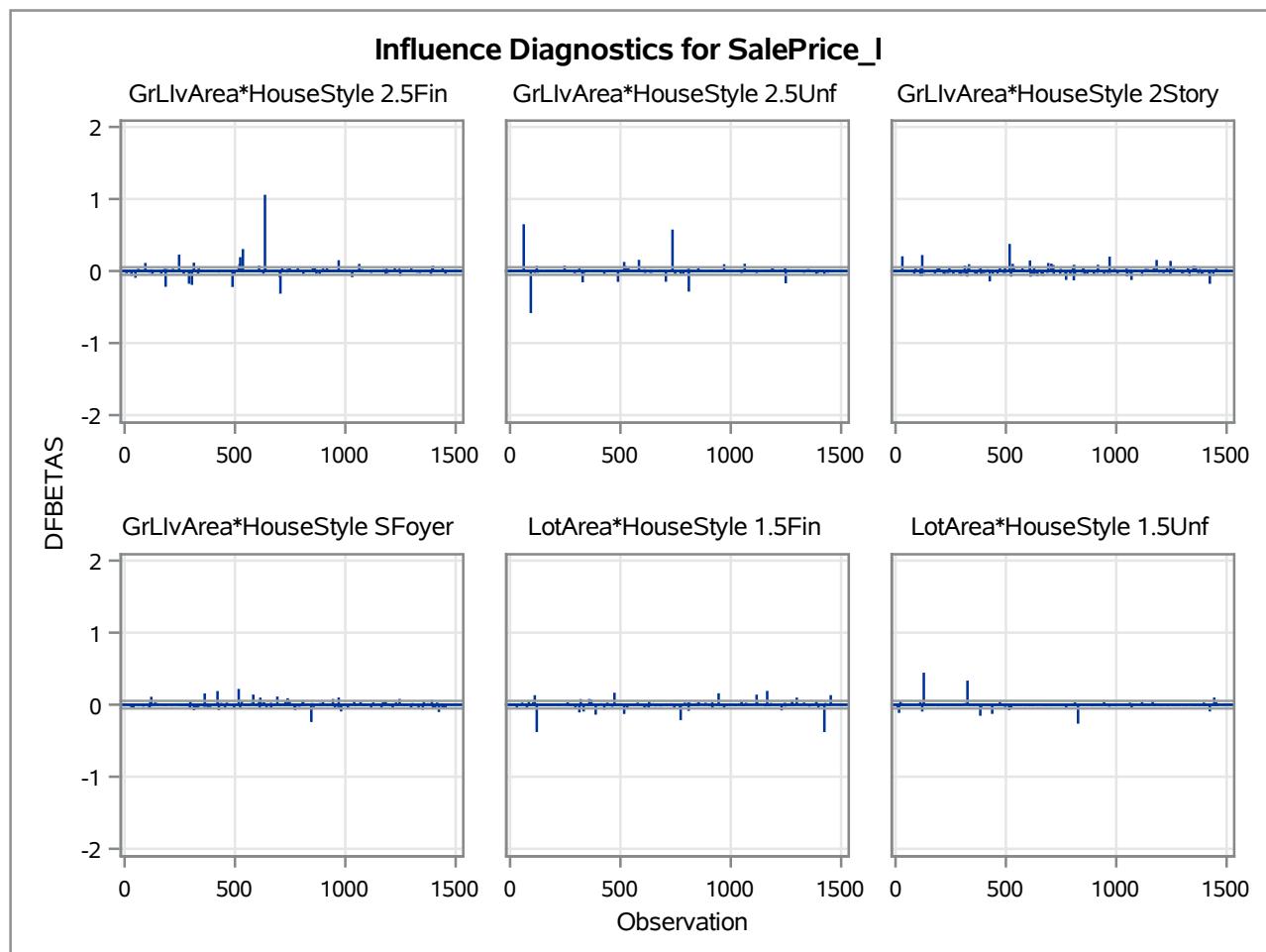
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Dependent Variable: SalePrice_I



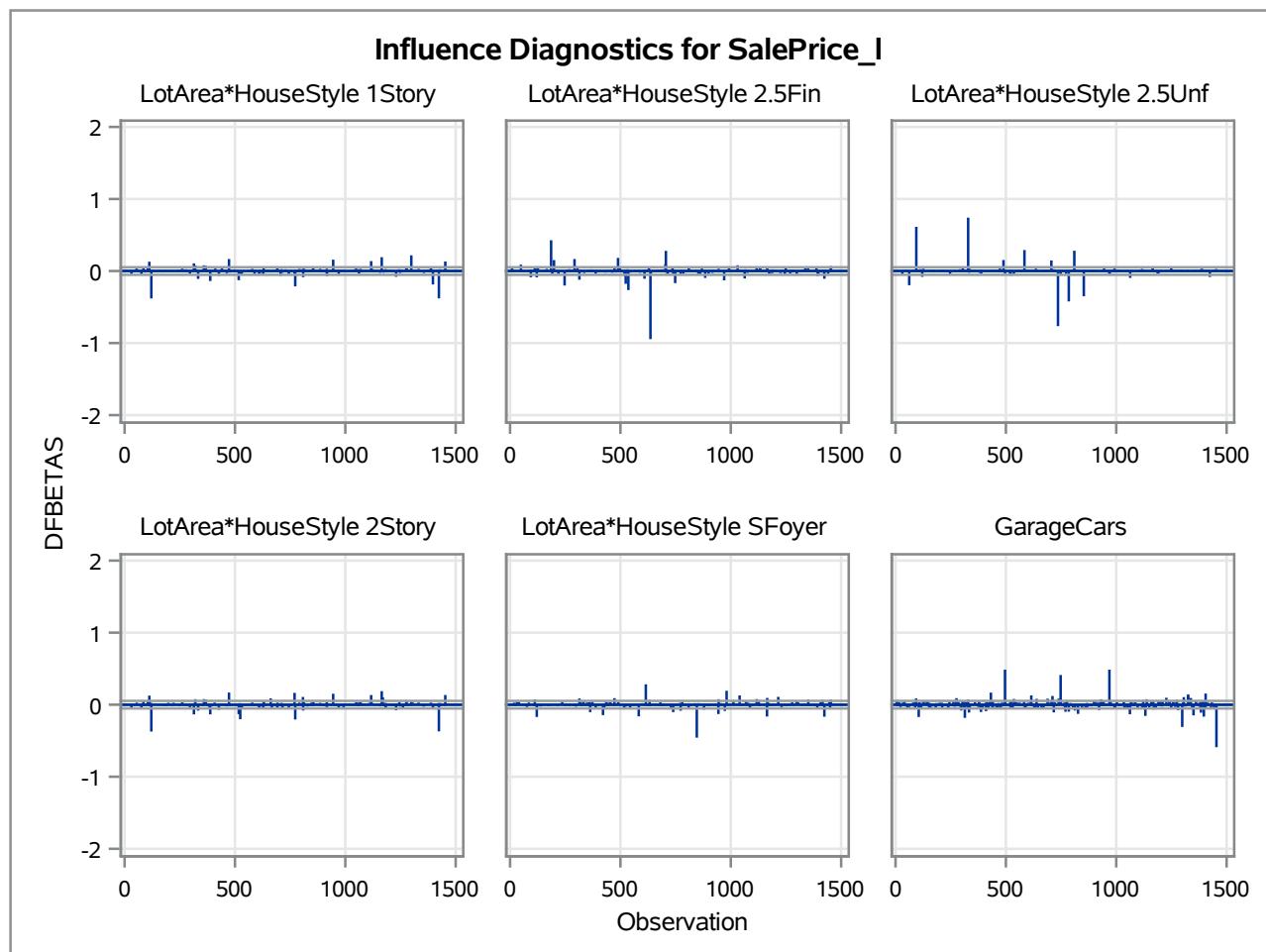
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Dependent Variable: SalePrice_I



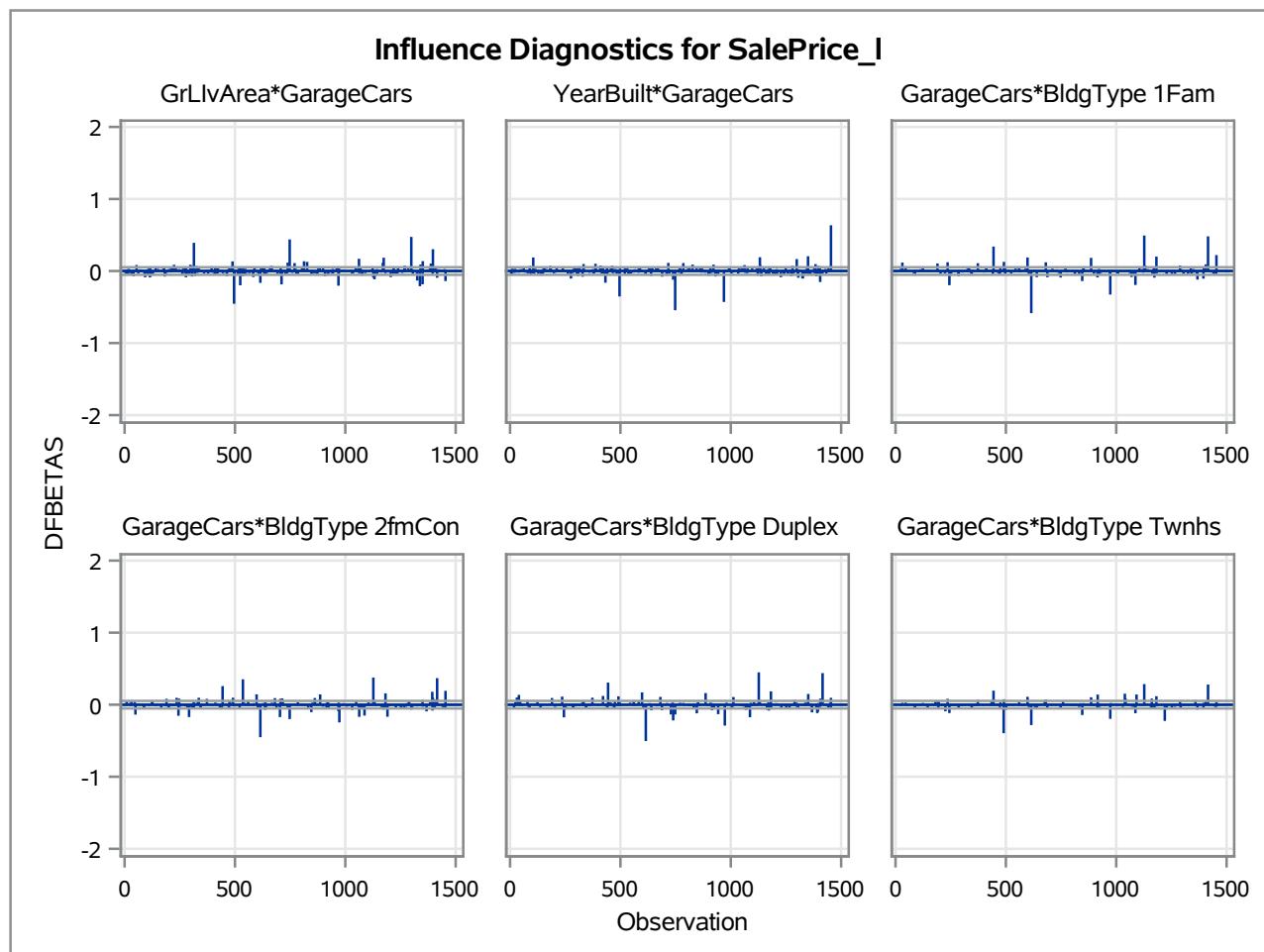
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Dependent Variable: SalePrice_I



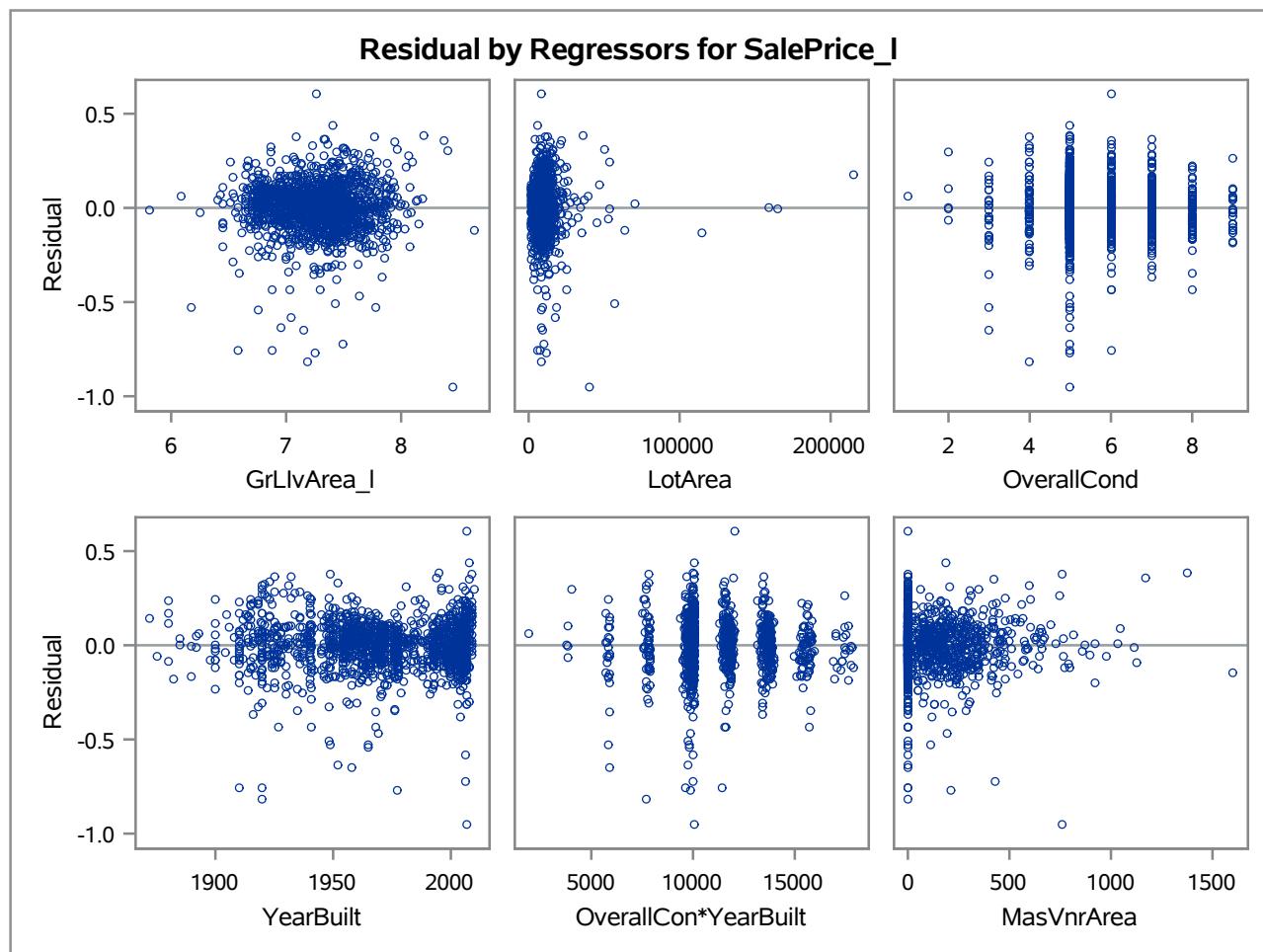
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Model: MODEL1
Dependent Variable: SalePrice_I



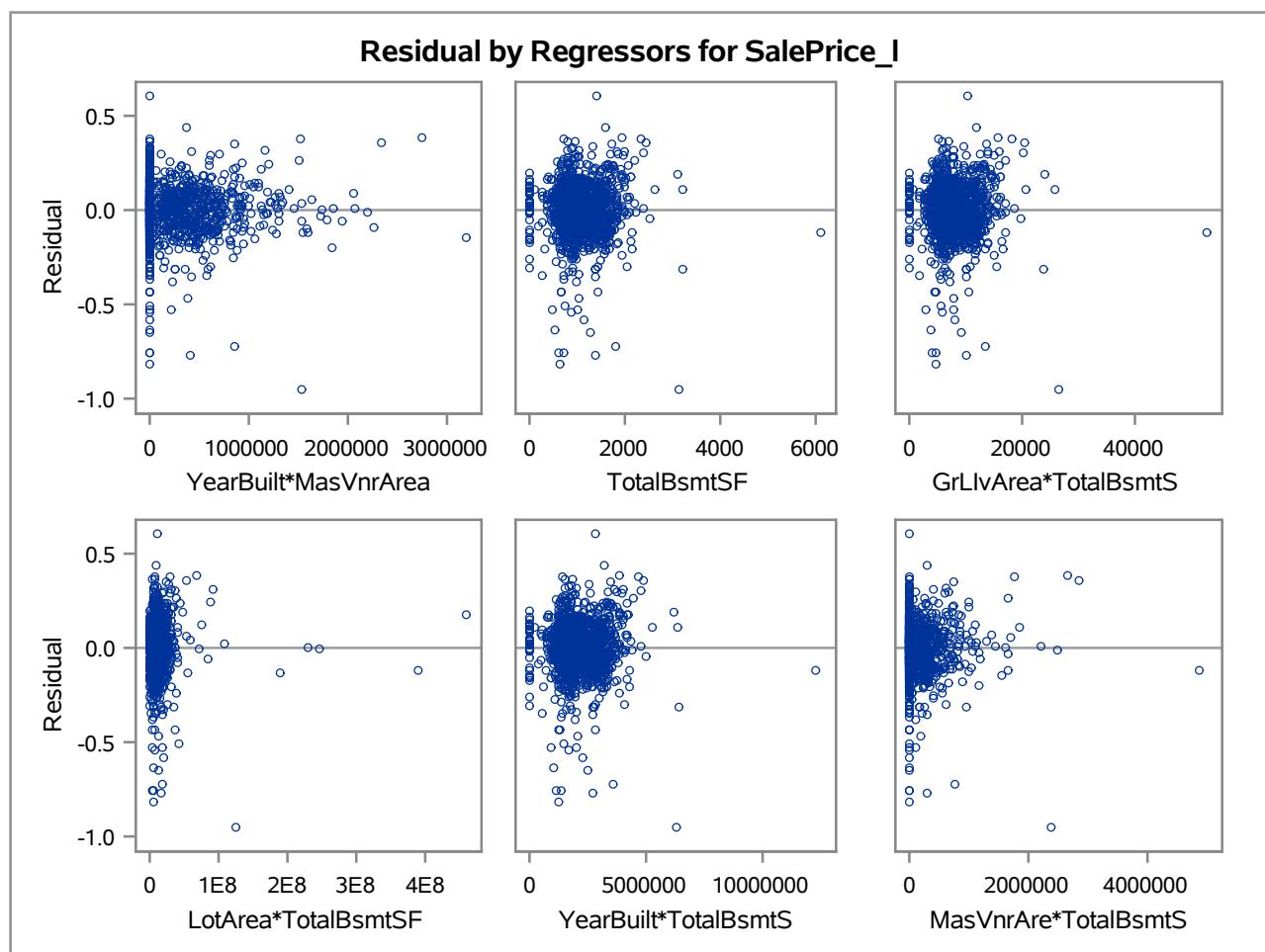
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



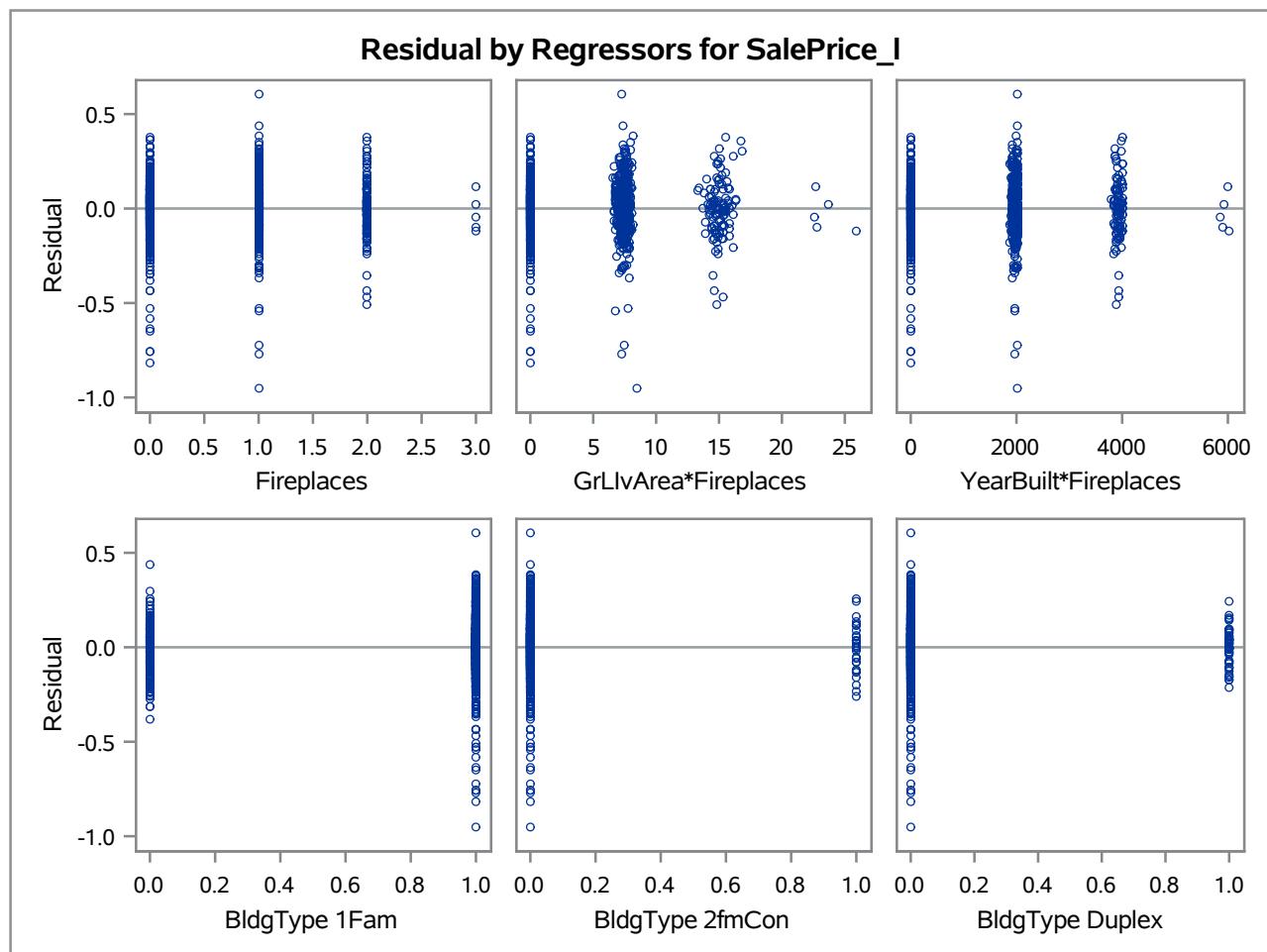
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



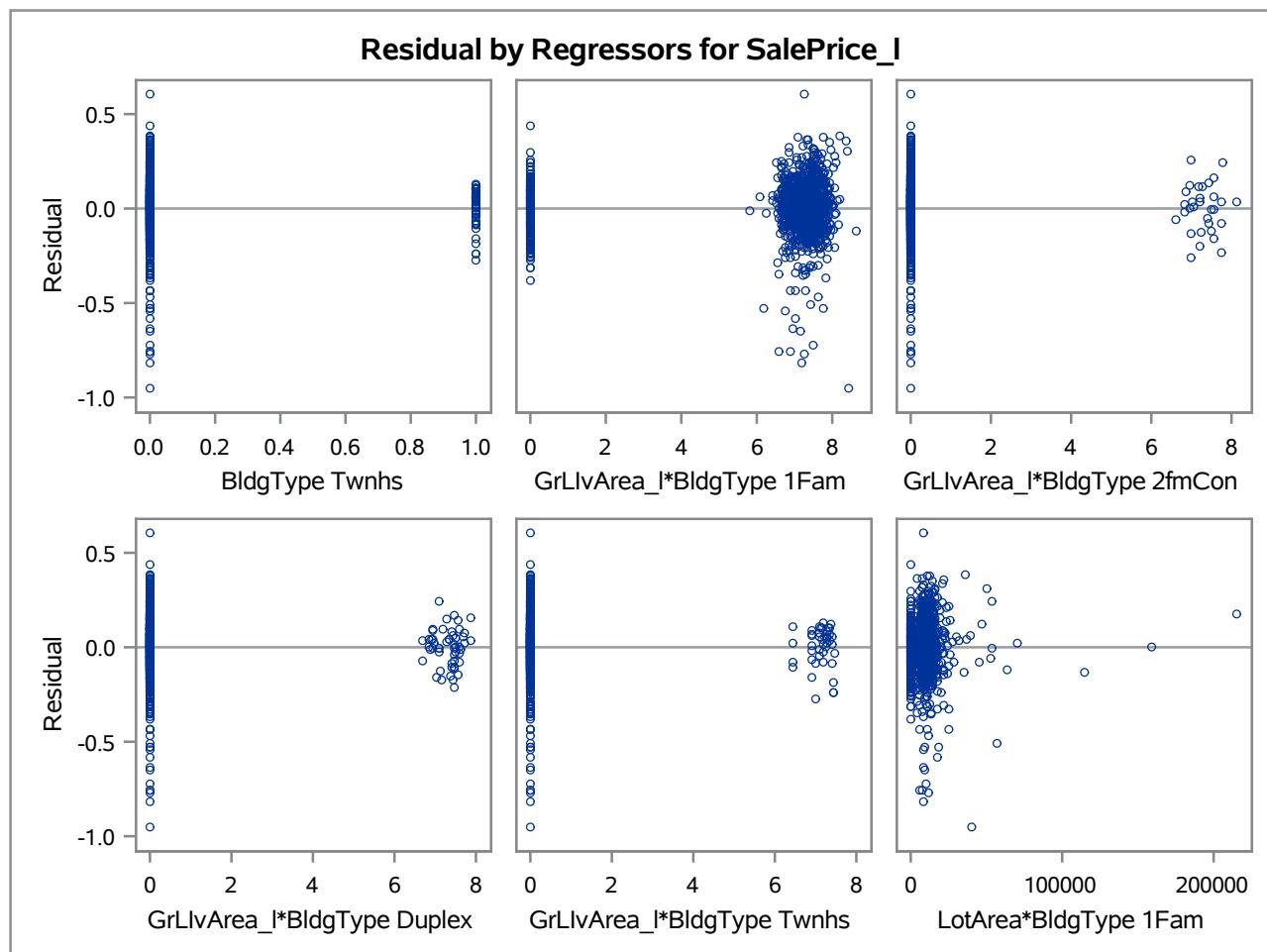
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Model: MODEL1
Dependent Variable: SalePrice_I



The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



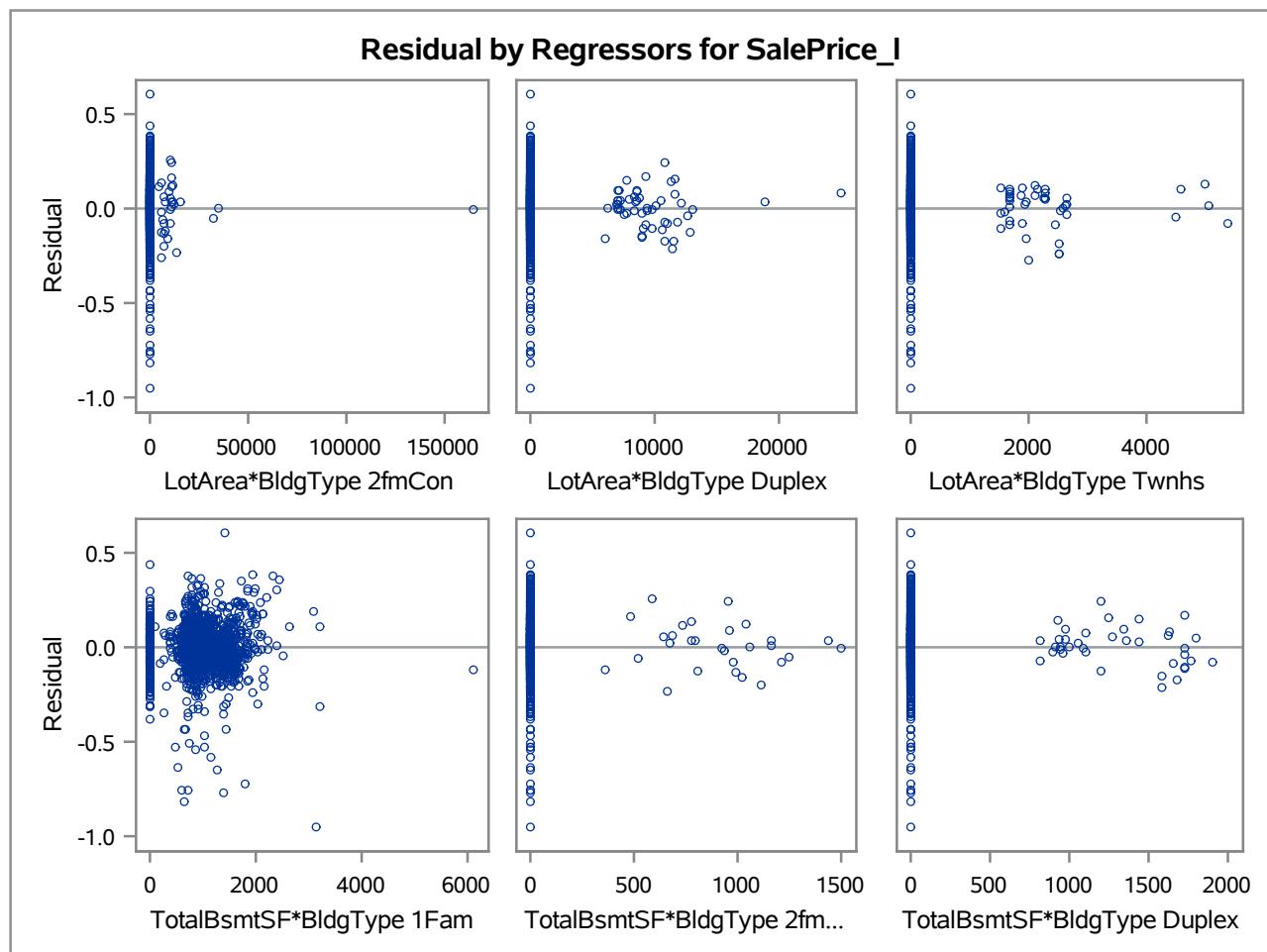
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



The REG Procedure

Model: MODEL1

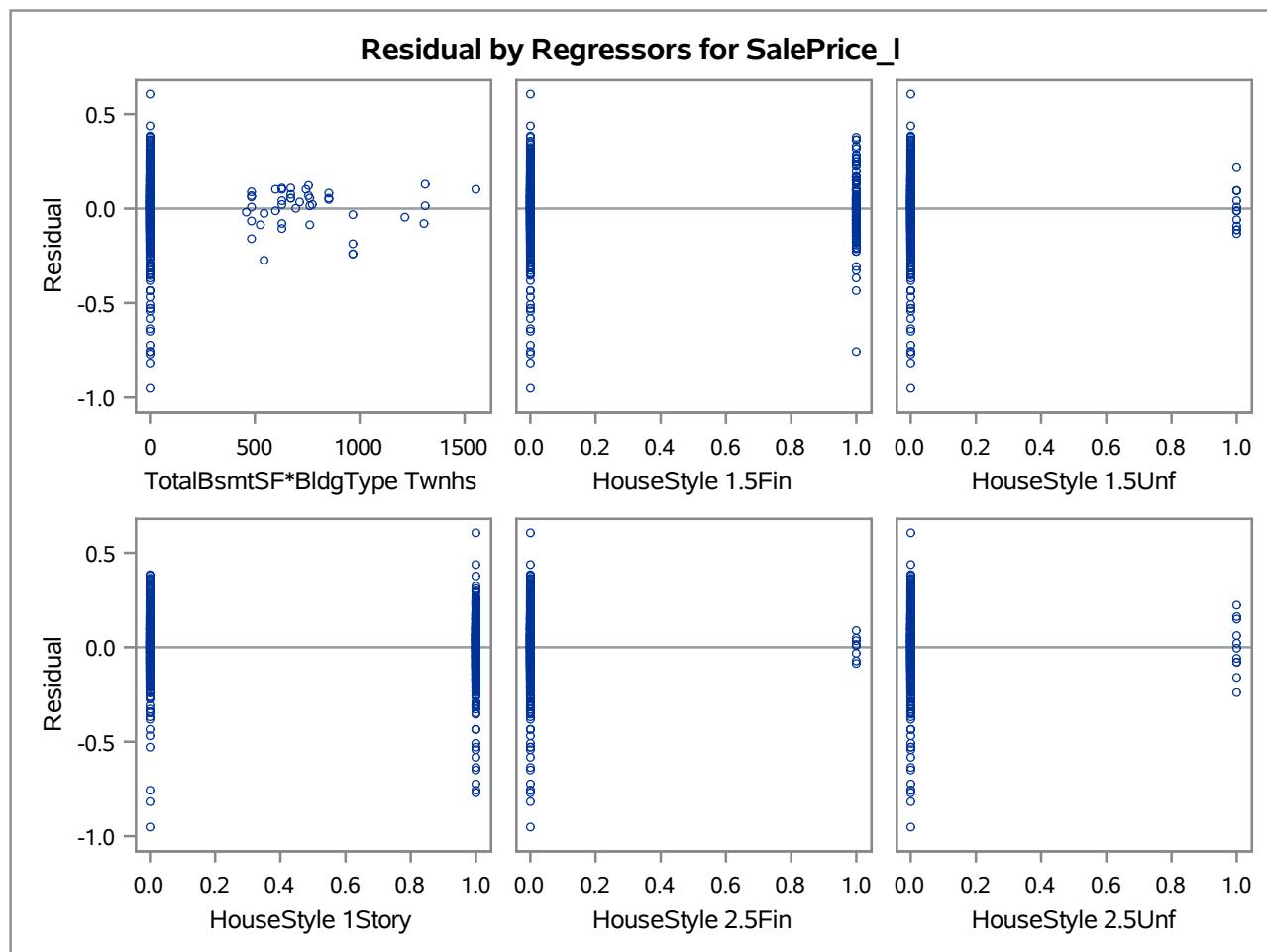
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The REG Procedure

Model: MODEL1

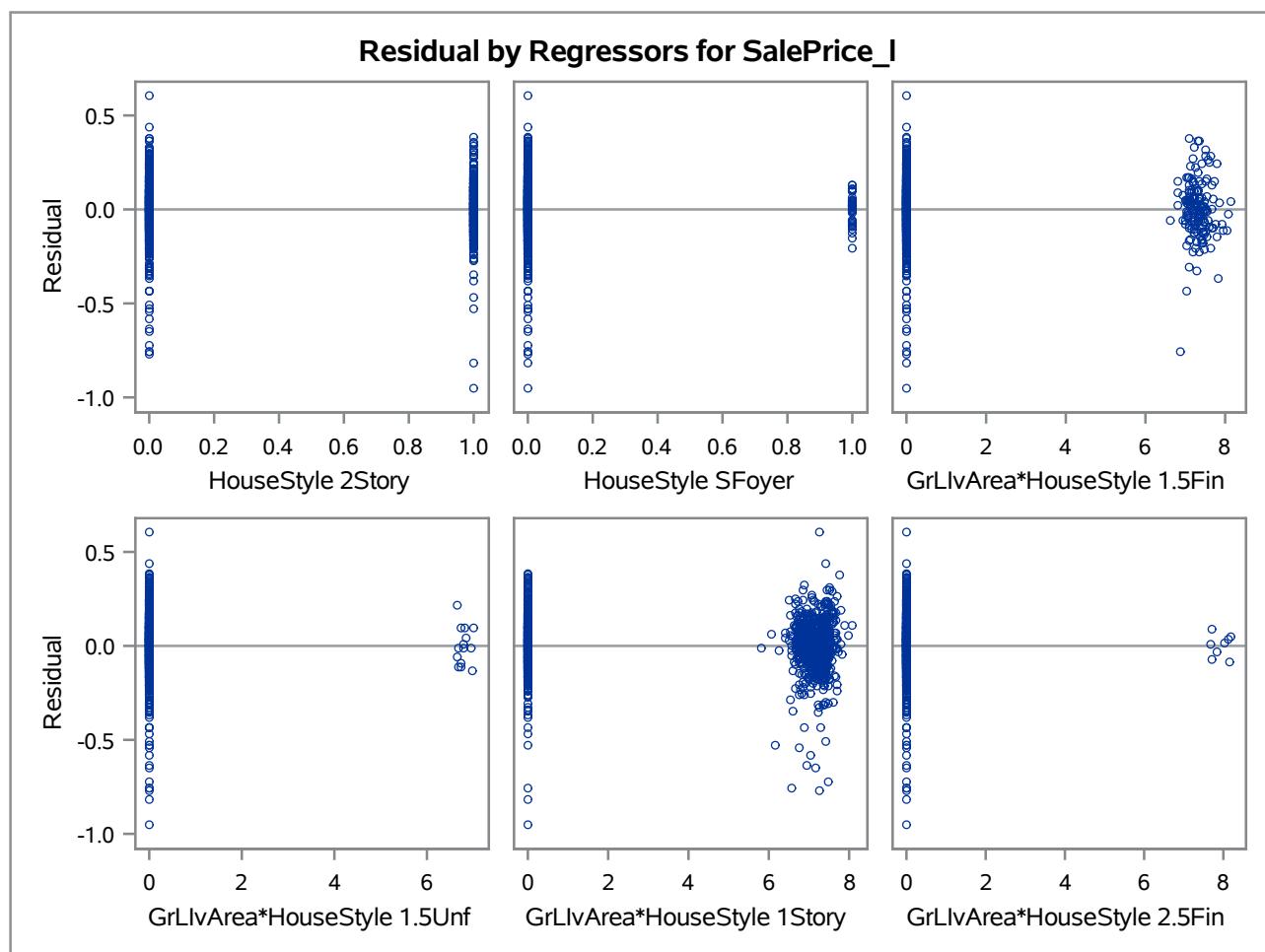
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The REG Procedure

Model: MODEL1

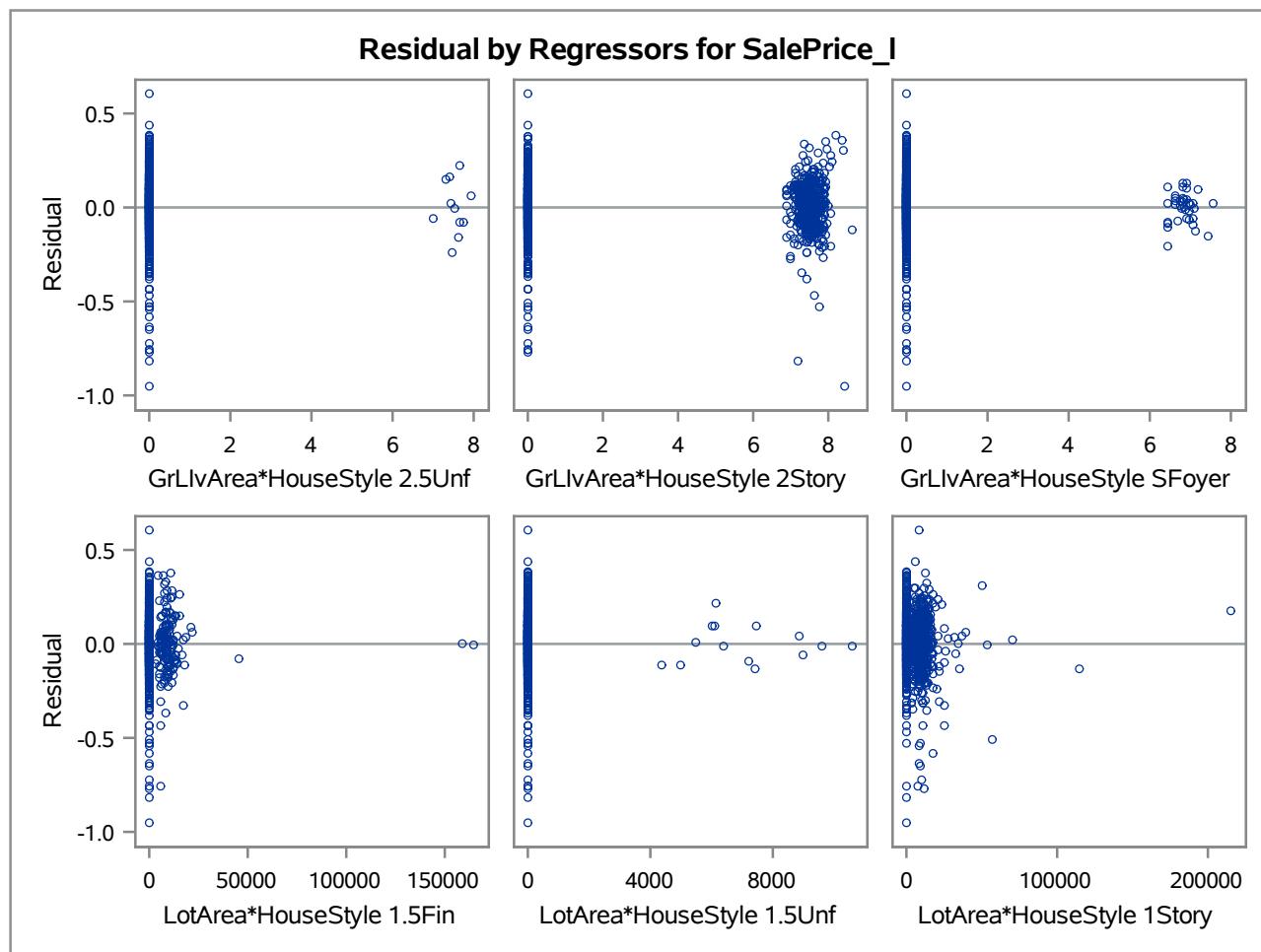
Dependent Variable: SalePrice_I



The REG Procedure

Model: MODEL1

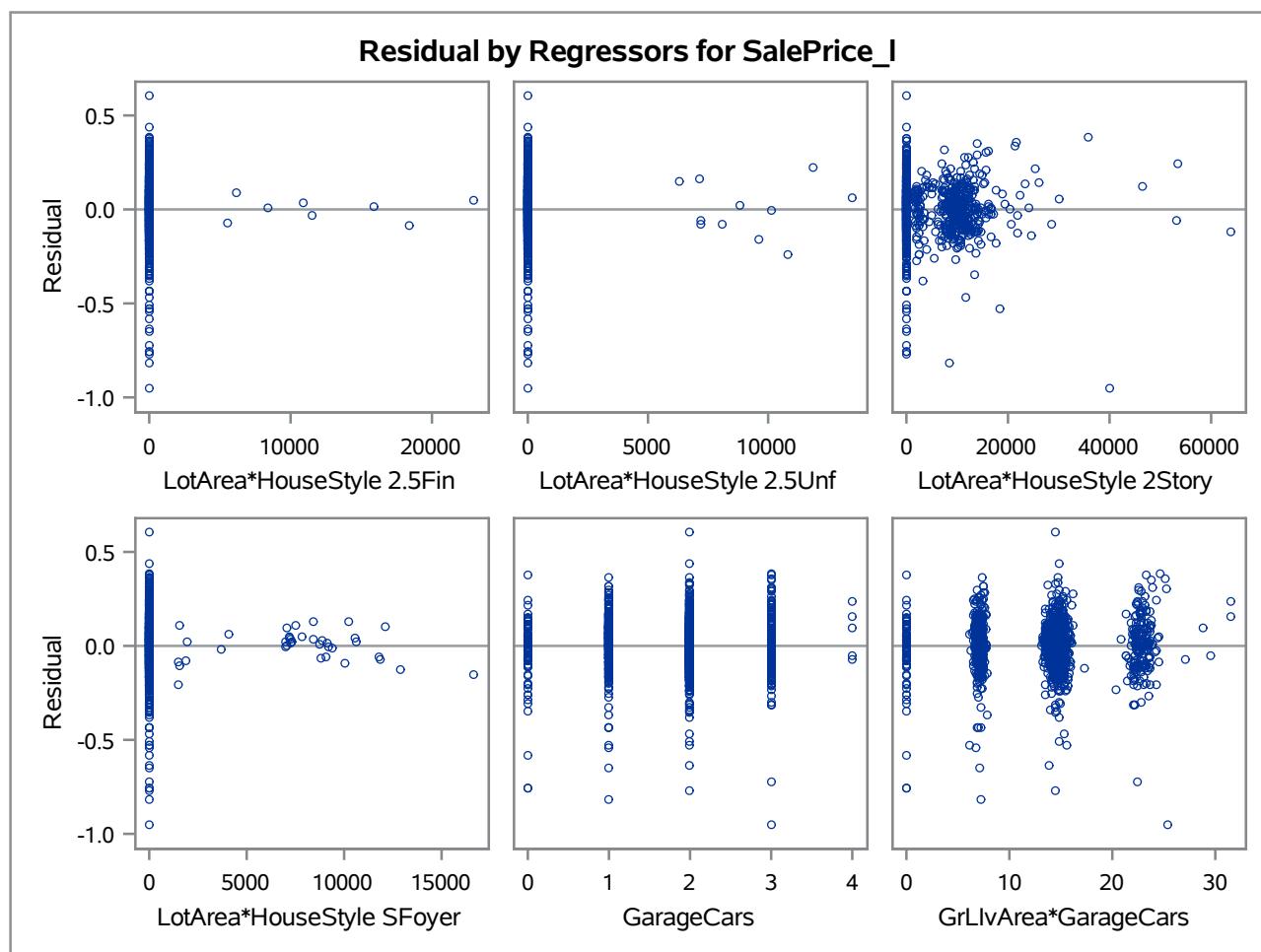
Dependent Variable: SalePrice_I



The REG Procedure

Model: MODEL1

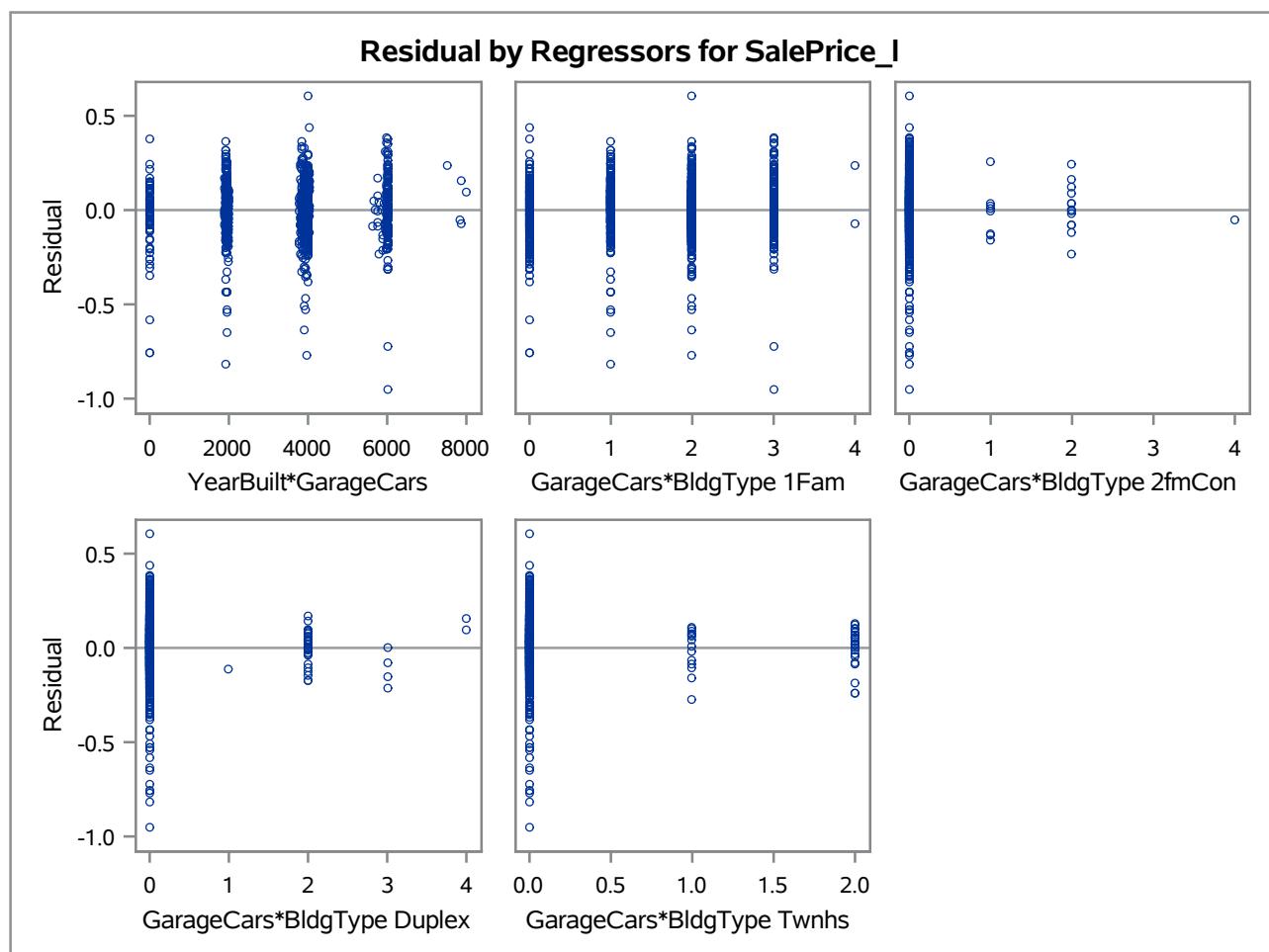
Dependent Variable: SalePrice_I



The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I



Forward Selection Multiple Linear Regression

The GLMSELECT Procedure

Data Set	WORK.TRAIN_6
Dependent Variable	SalePrice_I
Selection Method	Forward
Select Criterion	Significance Level
Stop Criterion	Significance Level
Choose Criterion	Cross Validation
Entry Significance Level (SLE)	0.5
Cross Validation Method	Split
Cross Validation Fold	5
Effect Hierarchy Enforced	Single

Number of Observations Read	2919
Number of Observations Used	1452

Class Level Information		
Class	Levels	Values
LotConfig	5	Corner CulDSac FR2 FR3 Inside
BldgType	5	1Fam 2fmCon Duplex Twnhs TwnhsE
HouseStyle	8	1.5Fin 1.5Unf 1Story 2.5Fin 2.5Unf 2Story SFoyer SLvl

Dimensions	
Number of Effects	79
Number of Parameters	268

Forward Selection Multiple Linear Regression

The GLMSELECT Procedure

Forward Selection Summary								
Step	Effect Entered	Number Effects In	NumberParms In	Model R-Square	PRESS	CV PRESS	F Value	Pr > F
0	Intercept	1	1	0.0000	231.7413	231.7520	0.00	1.0000
1	GrLlvArea_I	2	2	0.5338	108.2539	108.0105	1660.27	<.0001
2	YearBuilt	3	3	0.7152	66.2858	66.1688	923.15	<.0001
3	OverallCond	4	4	0.7585	56.2813	56.1909	259.37	<.0001
4	TotalBsmtSF	5	5	0.7987	48.1391	47.7174	288.66	<.0001
5	GarageCars	6	6	0.8193	43.2619	42.7619	165.58	<.0001
6	Fireplaces	7	7	0.8293	40.9988	40.5333	84.23	<.0001
7	GrLlvArea*TotalBsmtS	8	8	0.8374	42.5758	41.2275	72.05	<.0001
8	GrLlvArea*GarageCars	9	9	0.8446	39.6681	38.8164	66.68	<.0001
9	BldgType	10	13	0.8515	38.4791	37.8080	16.77	<.0001
10	OverallCon*YearBuilt	11	14	0.8564	37.4904	36.6067	49.39	<.0001
11	GarageCars*BldgType	12	18	0.8598	36.5759	35.7486	8.50	<.0001
12	LotArea	13	19	0.8622	36.0785	35.0199	24.96	<.0001
13	LotArea*TotalBsmtSF	14	20	0.8677	34.6398	34.3765	59.67	<.0001
14	LotArea*BldgType	15	24	0.8705	35.3676	36.1535	7.64	<.0001
15	YearBuilt*GarageCars	16	25	0.8723	34.1876	35.3079	20.81	<.0001
16	GrLlvArea_I*BldgType	17	29	0.8744	33.7030	34.6511	5.88	0.0001
17	GrLlvArea*Fireplaces	18	30	0.8753	33.6894	34.6048	10.06	0.0015
18	YearBuilt*Fireplaces	19	31	0.8762	33.6243	34.5685	10.71	0.0011
19	LotArea*OverallCond	20	32	0.8770	32.6085	32.9927	8.95	0.0028
20	MasVnrArea	21	33	0.8777	32.4870	32.9503	7.82	0.0052
21	YearBuilt*MasVnrArea	22	34	0.8798	31.9990	32.3638	25.60	<.0001
22	LotArea*MasVnrArea	23	35	0.8804	31.8657	33.0916	7.09	0.0078
23	TotalBsmtSF*BldgType	24	39	0.8814	31.6064	32.7742	2.94	0.0196
24	HouseStyle	25	46	0.8826	31.8251	33.2271	2.11	0.0401
25	LotArea*HouseStyle	26	53	0.8840	30.8112	32.2177	2.39	0.0196
26	YearBuilt*TotalBsmtS	27	54	0.8846	30.8704	32.1722	6.48	0.0110
27	GrLlvArea*HouseStyle	28	61	0.8863	30.4652*	32.0568	3.11	0.0029
28	TotalBsmt*Fireplaces	29	62	0.8868	31.5656	32.6654	4.98	0.0258
29	MasVnrAre*TotalBsmtS	30	63	0.8873	31.3598	31.8327	7.20	0.0074
30	MasVnrAre*HouseStyle	31	67	0.8881	31.5196	31.8601	2.39	0.0490
31	GrLlvArea*OverallCon	32	68	0.8884	31.6856	31.8048	3.78	0.0522
32	GrLlvArea*MasVnrArea	33	69	0.8888	31.1865	31.3497*	4.29	0.0384

* Optimal Value of Criterion

Forward Selection Multiple Linear Regression

The GLMSELECT Procedure

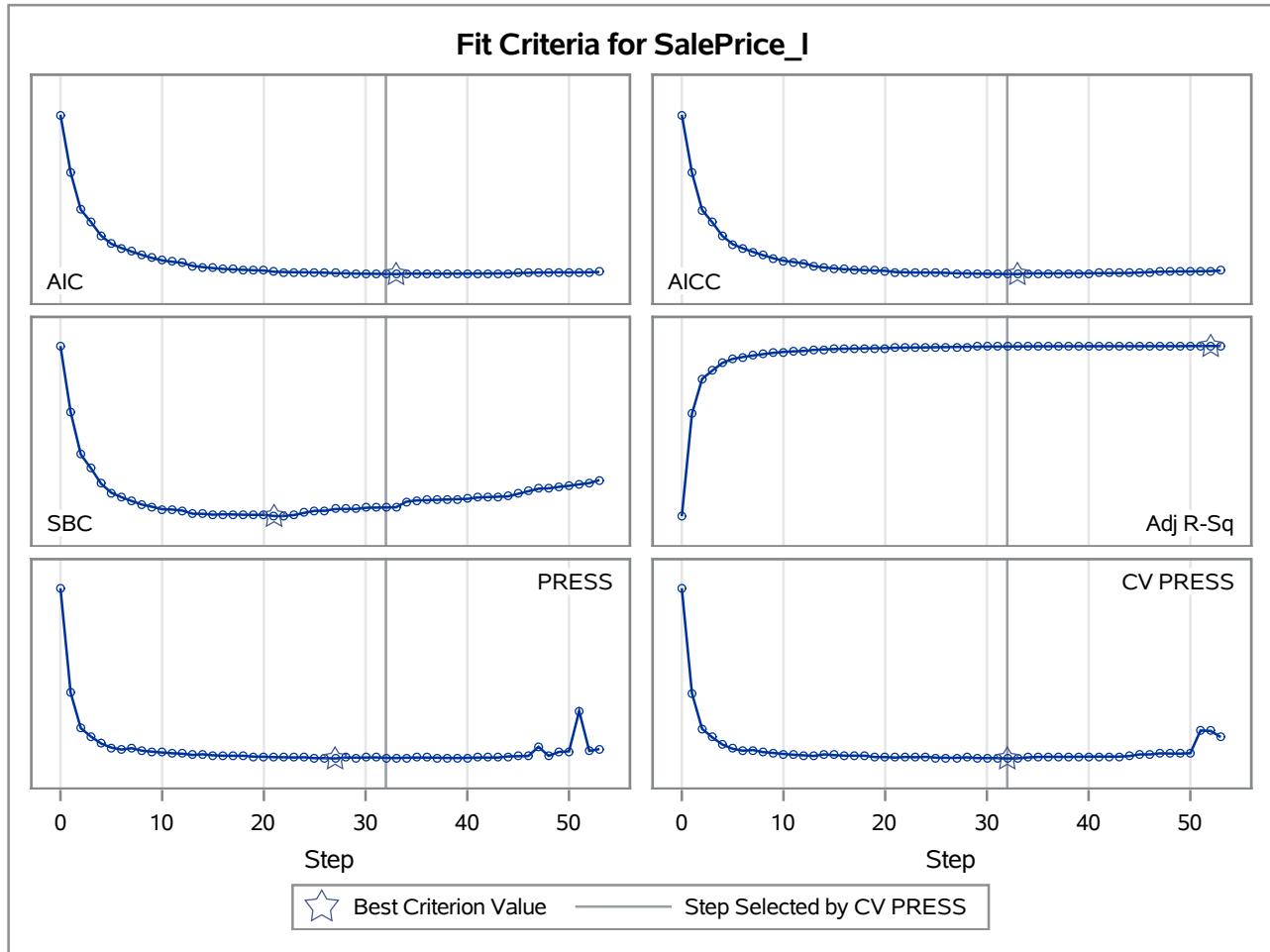
Forward Selection Summary								
Step	Effect Entered	Number Effects In	NumberParms In	Model R-Square	PRESS	CV PRESS	F Value	Pr > F
33	LotArea*GarageCars	34	70	0.8891	31.0085	31.5073	3.80	0.0515
34	BldgType*HouseStyle	35	86	0.8909	31.3369	32.5489	1.45	0.1113
35	YearBuilt*BldgType	36	90	0.8915	31.5106	33.1156	1.86	0.1154
36	OverallCo*Fireplaces	37	91	0.8917	31.4647	33.2317	2.54	0.1114
37	MasVnrAre*GarageCars	38	92	0.8919	31.3073	33.2140	1.86	0.1734
38	OverallCo*GarageCars	39	93	0.8920	31.1270	33.2054	1.58	0.2095
39	OverallCo*MasVnrArea	40	94	0.8921	31.0231	33.3356	1.81	0.1785
40	MasVnrAre*Fireplaces	41	95	0.8922	31.2158	33.4658	1.60	0.2059
41	MasVnrArea*BldgType	42	99	0.8927	31.4797	33.5336	1.44	0.2169
42	OverallCo*TotalBsmtS	43	100	0.8928	31.4860	33.4913	0.93	0.3362
43	GrLlvArea_*YearBuilt	44	101	0.8929	31.5128	33.4999	0.91	0.3412
44	GrLlvArea_!*LotArea	45	102	0.8929	32.8378	34.2170	0.81	0.3686
45	GarageCar*HouseStyle	46	109	0.8935	33.1634	36.1221	1.05	0.3918
46	YearBuilt*HouseStyle	47	116	0.8941	33.3917	36.1097	1.14	0.3376
47	Fireplace*HouseStyle	48	123	0.8948	44.2001	37.3464	1.14	0.3345
48	Fireplace*GarageCars	49	124	0.8948	33.5067	37.1796	0.78	0.3784
49	LotConfig	50	128	0.8951	38.2022	37.0632	1.02	0.3955
50	MasVnrArea*LotConfig	51	132	0.8960	38.8883	37.4974	2.64	0.0327
51	YearBuilt*LotConfig	52	136	0.8964	86.4338	64.2280	1.24	0.2907
52	OverallCon*LotConfig	53	140	0.8969	39.3445	63.7704	1.64	0.1608
53	LotConfig*BldgType	54	148	0.8975	41.6184	56.4341	0.99	0.4382
* Optimal Value of Criterion								

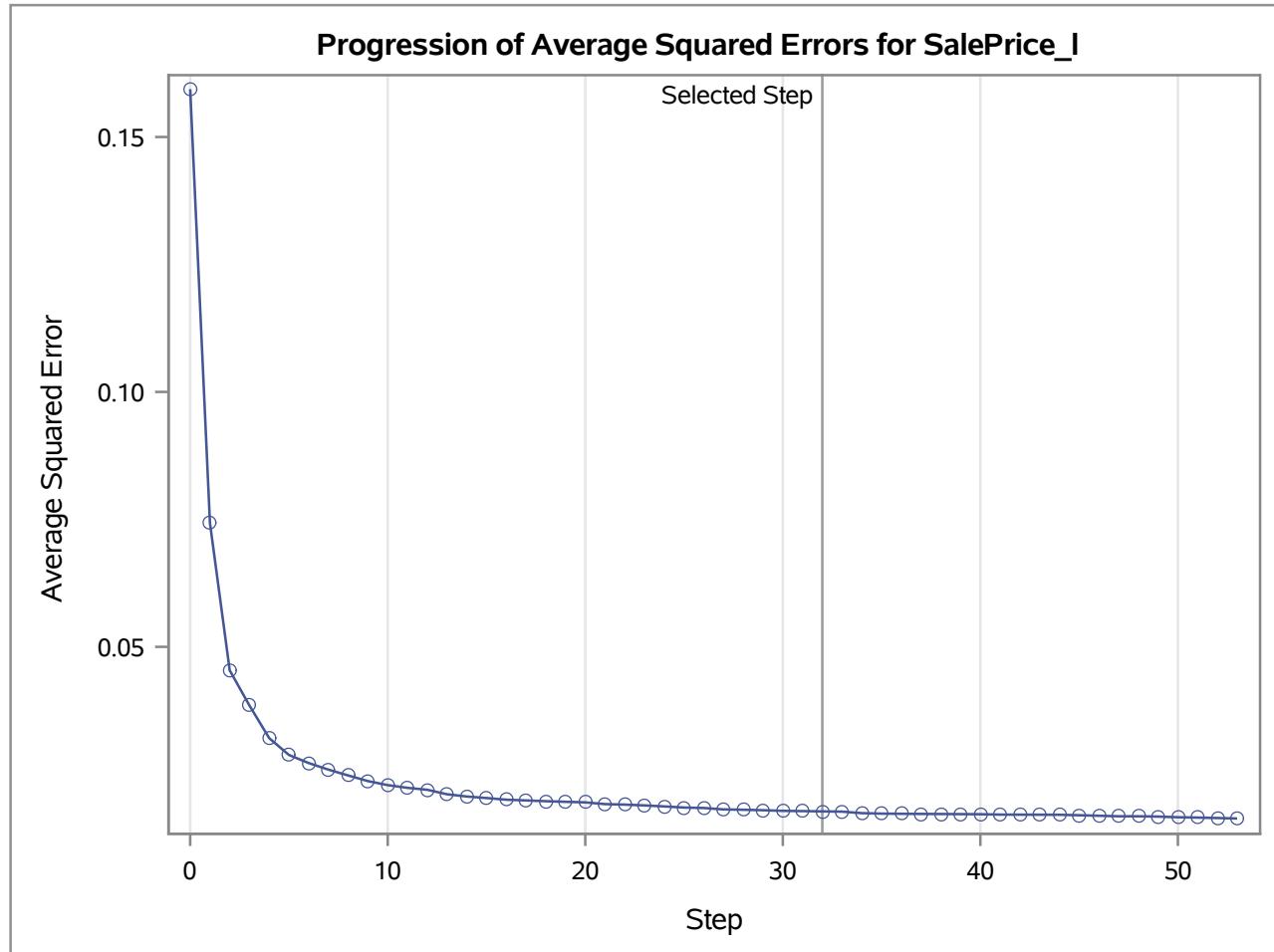
Selection stopped as the candidate for entry has SLE > 0.5.

Stop Details				
Candidate For	Effect	Candidate Significance	Compare Significance	
Entry	GarageCars*LotConfig	0.5247	> 0.5000	(SLE)

Forward Selection Multiple Linear Regression

The GLMSELECT Procedure



Forward Selection Multiple Linear Regression**The GLMSELECT Procedure**

Forward Selection Multiple Linear Regression

The GLMSELECT Procedure Selected Model

The selected model, based on Cross Validation, is the model at Step 32.

Effects:	Intercept GrLlvArea_I LotArea OverallCond GrLlvArea*OverallCon LotArea*OverallCond YearBuilt OverallCon*YearBuilt MasVnrArea GrLlvArea*MasVnrArea LotArea*MasVnrArea YearBuilt*MasVnrArea TotalBsmtSF GrLlvArea*TotalBsmtS LotArea*TotalBsmtSF YearBuilt*TotalBsmtS MasVnrAre*TotalBsmtS Fireplaces GrLlvArea*Fireplaces YearBuilt*Fireplaces TotalBsmt*Fireplaces BldgType GrLlvArea_*BldgType LotArea*BldgType TotalBsmtSF*BldgType HouseStyle GrLlvArea*HouseStyle LotArea*HouseStyle MasVnrAre*HouseStyle GarageCars GrLlvArea*GarageCars YearBuilt*GarageCars GarageCars*BldgType
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Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Value
Model	68	205.67805	3.02468	162.49
Error	1383	25.74416	0.01861	
Corrected Total	1451	231.42221		

Root MSE	0.13644
Dependent Mean	12.02239
R-Square	0.8888
Adj R-Sq	0.8833
AIC	-4263.17484
AICC	-4255.97716
PRESS	31.18646
SBC	-5352.80673
CV PRESS	31.34966

Cross Validation Details			
Index	Observations		CV PRESS
	Fitted	Left Out	
1	1161	291	6.4411
2	1161	291	6.0336
3	1162	290	6.6836
4	1162	290	5.8301
5	1162	290	6.3612
Total			31.3497

Forward Selection Multiple Linear Regression

The GLMSELECT Procedure Selected Model

Parameter Estimates									
Parameter	DF	Estimate	Standard Error	t Value	Cross Validation Estimates				
					1	2	3	4	5
Intercept	1	-3.963794	2.060281	-1.92	2.82E-01	-1.26E+01	-2.33E+01	-1.01E+01	-8.82E+00
GrLlvArea_I	1	0.373223	0.126757	2.94	-1.82E+00	-3.93E-01	1.52E+00	-6.34E-01	-6.98E-01
LotArea	1	0.000033415	0.000009627	3.47	8.74E-05	6.29E-05	1.06E-04	9.15E-05	4.93E-05
OverallCond	1	1.639692	0.272263	6.02	1.96E+00	1.49E+00	1.61E+00	1.75E+00	1.63E+00
GrLlvArea*OverallCon	1	-0.021903	0.010294	-2.13	-4.27E-02	-3.78E-02	-4.13E-02	-2.71E-02	-4.10E-02
LotArea*OverallCond	1	0.000000827	0.000000765	1.08	9.48E-07	1.83E-06	1.91E-07	-7.53E-07	8.59E-07
YearBuilt	1	0.006201	0.000949	6.54	3.72E-03	1.02E-02	1.58E-02	9.25E-03	9.37E-03
OverallCon*YearBuilt	1	-0.000727	0.000131	-5.54	-8.27E-04	-6.01E-04	-6.54E-04	-7.62E-04	-6.57E-04
MasVnrArea	1	-0.017436	0.002867	-6.08	-1.39E-02	-1.20E-02	-1.13E-02	-1.35E-02	-1.31E-02
GrLlvArea*MasVnrArea	1	0.000279	0.000135	2.07	-6.45E-05	2.50E-05	6.32E-05	-1.83E-04	9.53E-05
LotArea*MasVnrArea	1	5.707036E-10	2.5327371E-9	0.23	-2.61E-09	-5.22E-09	2.46E-09	-3.41E-09	-5.68E-09
YearBuilt*MasVnrArea	1	0.000007980	0.000001438	5.55	7.30E-06	6.04E-06	5.66E-06	7.70E-06	6.39E-06
TotalBsmtSF	1	-0.002395	0.000987	-2.43	-9.38E-04	-2.43E-03	-3.62E-03	-2.74E-03	-2.04E-03
GrLlvArea*TotalBsmtS	1	-0.000107	0.000037851	-2.82	-9.26E-05	-1.22E-04	5.73E-05	-2.36E-06	-9.18E-05
LotArea*TotalBsmtSF	1	-6.938669E-9	9.392766E-10	-7.39	-3.45E-09	-4.23E-09	-6.92E-09	-6.49E-09	-4.74E-09
YearBuilt*TotalBsmtS	1	0.000001801	0.000000519	3.47	1.02E-06	1.96E-06	1.84E-06	1.64E-06	1.72E-06
MasVnrAre*TotalBsmtS	1	-0.000000313	8.3656532E-8	-3.75	-2.43E-07	-2.36E-07	-1.40E-07	-3.55E-07	-2.85E-07
Fireplaces	1	2.361244	0.537520	4.39	2.68E+00	1.91E+00	1.69E+00	2.90E+00	2.05E+00
GrLlvArea*Fireplaces	1	0.031398	0.024033	1.31	1.43E-02	2.72E-02	8.62E-02	3.77E-02	4.64E-02
YearBuilt*Fireplaces	1	-0.001327	0.000261	-5.09	-1.50E-03	-1.14E-03	-1.19E-03	-1.67E-03	-1.28E-03
TotalBsmt*Fireplaces	1	0.000065312	0.000019433	3.36	8.24E-05	4.41E-05	-4.38E-05	5.38E-05	4.33E-05
BldgType 1Fam	1	-0.700475	0.495642	-1.41	4.01E+00	6.82E+00	3.99E+00	4.50E+00	4.01E+00
BldgType 2fmCon	1	-0.342244	0.782099	-0.44	8.07E+00	1.49E+01	6.45E+00	2.04E+01	1.29E+01
BldgType Duplex	1	0.914102	0.711772	1.28	1.08E+01	1.02E+01	4.84E+00	2.37E+00	8.66E+00
BldgType Twnhs	1	-0.472378	1.064502	-0.44	9.58E+00	1.42E+01	4.74E+00	8.16E+00	6.42E+00
GrLlvArea_I*BldgType 1Fam	1	0.123911	0.074519	1.66	3.67E-01	3.51E-01	3.14E-01	3.10E-01	5.55E-01
GrLlvArea_I*BldgType 2fmCon	1	0.057697	0.112334	0.51	4.87E-01	4.76E-01	2.87E-01	2.92E-01	6.62E-01
GrLlvArea_I*BldgType Duplex	1	-0.085182	0.103806	-0.82	5.43E-03	-5.04E-02	-1.67E-01	-1.15E-01	1.16E-01
GrLlvArea_I*BldgType Twnhs	1	0.080573	0.160165	0.50	3.33E-01	6.52E-01	1.02E+00	5.01E-01	8.80E-01
LotArea*BldgType 1Fam	1	-0.000017011	0.000006729	-2.53	-1.42E-05	-1.22E-05	-1.58E-05	-1.84E-05	-4.71E-06
LotArea*BldgType 2fmCon	1	-0.000015912	0.000006952	-2.29	-1.58E-05	-1.17E-05	-1.49E-05	-1.96E-05	-8.90E-06
LotArea*BldgType Duplex	1	-0.000024013	0.000009500	-2.53	-2.15E-05	-1.18E-05	-1.62E-05	-1.78E-05	-2.29E-05
LotArea*BldgType Twnhs	1	0.000142	0.000056677	2.51	6.80E-06	5.40E-05	-1.82E-05	-1.11E-05	1.05E-04

Forward Selection Multiple Linear Regression

The GLMSELECT Procedure Selected Model

Parameter	DF	Estimate	Standard Error	t Value	Parameter Estimates					Cross Validation Estimates				
					1	2	3	4	5					
TotalBsmtSF*BldgType 1Fam	1	-0.000116	0.000058276	-2.00	-2.46E-04	-3.41E-04	-2.52E-04	-2.61E-04	-4.63E-04					
TotalBsmtSF*BldgType 2fmCon	1	0.000049016	0.000113	0.43	-1.36E-04	-2.78E-04	-3.67E-04	-4.47E-05	-2.67E-04					
TotalBsmtSF*BldgType Duplex	1	-0.000136	0.000069001	-1.97	-2.08E-04	-3.42E-04	-2.62E-04	-2.70E-04	-4.31E-04					
TotalBsmtSF*BldgType Twnhs	1	-0.000675	0.000224	-3.02	-7.13E-04	-1.09E-03	-1.57E-03	-1.11E-03	-1.53E-03					
HouseStyle 1.5Fin	1	-1.930158	0.653181	-2.96	5.98E-01	7.25E+00	6.40E+00	4.78E+00	5.53E+00					
HouseStyle 1.5Unf	1	-0.401442	2.301456	-0.17	7.69E+00	1.40E+01	1.45E+01	9.45E+00	1.12E+01					
HouseStyle 1Story	1	-0.680280	0.572211	-1.19	-8.30E-02	4.64E+00	5.01E+00	5.29E+00	3.99E+00					
HouseStyle 2.5Fin	1	-2.384245	4.474996	-0.53	7.63E+00	1.05E+02	1.00E+02	1.37E+01	8.01E+01					
HouseStyle 2.5Unf	1	-0.781661	1.710825	-0.46	-2.61E+01	-1.66E+01	4.07E+01	-2.34E+01	-9.13E+00					
HouseStyle 2Story	1	-1.804850	0.597646	-3.02	1.70E+00	4.24E+00	4.40E+00	5.02E+00	3.81E+00					
HouseStyle SFoyer	1	0.194096	1.175752	0.17	2.74E-01	2.36E+00	7.06E+00	1.03E+01	3.32E+00					
GrLlvArea*HouseStyle 1.5Fin	1	0.273806	0.092300	2.97	1.75E-01	1.09E-01	1.98E-01	1.31E-01	1.93E-01					
GrLlvArea*HouseStyle 1.5Unf	1	0.033621	0.337956	0.10	7.10E-01	7.64E-01	2.73E-01	7.90E-01	8.06E-01					
GrLlvArea*HouseStyle 1Story	1	0.092943	0.082136	1.13	-7.76E-03	-9.78E-03	-2.90E-02	-3.80E-02	9.78E-02					
GrLlvArea*HouseStyle 2.5Fin	1	0.297640	0.595001	0.50	-9.90E-01	-3.68E+00	-4.11E+00	-4.13E-01	-3.04E+00					
GrLlvArea*HouseStyle 2.5Unf	1	0.059358	0.246207	0.24	7.11E-01	2.19E+00	-7.73E-01	6.40E-01	4.42E-01					
GrLlvArea*HouseStyle 2Story	1	0.259233	0.084712	3.06	1.38E-01	1.65E-01	1.89E-01	1.72E-01	2.99E-01					
GrLlvArea*HouseStyle SFoyer	1	-0.024647	0.179524	-0.14	-2.91E-01	1.01E-01	1.19E-02	-2.64E-01	-9.70E-02					
LotArea*HouseStyle 1.5Fin	1	-0.000011808	0.000005709	-2.07	-9.59E-08	-1.54E-05	-1.67E-05	-1.39E-05	-1.64E-05					
LotArea*HouseStyle 1.5Unf	1	0.000020022	0.000021590	0.93	2.85E-05	8.82E-06	7.85E-06	8.05E-06	1.00E-05					
LotArea*HouseStyle 1Story	1	-0.000004797	0.000005549	-0.86	3.88E-06	-1.01E-05	-1.52E-05	-1.17E-05	-1.31E-05					
LotArea*HouseStyle 2.5Fin	1	0.000007783	0.000021671	0.36	5.34E-05	-8.39E-05	-5.59E-05	2.13E-05	-5.49E-05					
LotArea*HouseStyle 2.5Unf	1	0.000041921	0.000025759	1.63	7.55E-05	1.82E-05	8.10E-06	7.25E-05	1.03E-04					
LotArea*HouseStyle 2Story	1	-0.000009701	0.000005610	-1.73	2.69E-06	-1.50E-05	-1.54E-05	-1.42E-05	-1.79E-05					
LotArea*HouseStyle SFoyer	1	-0.000008077	0.000012352	-0.65	-6.81E-06	-4.30E-05	-3.34E-05	-3.01E-05	-2.32E-05					
MasVnrAre*HouseStyle 1.5Fin	1	0.000173	0.000171	1.01	2.76E-04	2.82E-04	2.06E-04	3.06E-04	1.92E-04					
MasVnrAre*HouseStyle 1.5Unf	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
MasVnrAre*HouseStyle 1Story	1	0.000077016	0.000112	0.69	8.86E-05	1.17E-04	5.28E-05	2.15E-04	8.43E-05					
MasVnrAre*HouseStyle 2.5Fin	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
MasVnrAre*HouseStyle 2.5Unf	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
MasVnrAre*HouseStyle 2Story	1	-0.000159	0.000123	-1.29	-6.77E-05	-5.16E-05	-6.81E-05	-6.98E-05	-1.42E-04					
MasVnrAre*HouseStyle SFoyer	1	0.000170	0.000294	0.58	7.44E-05	2.37E-04	-1.84E-07	2.72E-04	-4.67E-05					
GarageCars	1	-1.440810	0.417899	-3.45	-9.33E-01	-6.54E-01	-1.25E+00	-1.33E+00	-1.63E+00					

Forward Selection Multiple Linear Regression

The GLMSELECT Procedure Selected Model

Parameter	DF	Estimate	Standard Error	t Value	Parameter Estimates					Cross Validation Estimates				
					1	2	3	4	5	1	2	3	4	5
GrLlvArea*GarageCars	1	0.019673	0.018538	1.06	1.26E-02	-3.69E-02	-5.00E-02	-2.30E-02	-2.08E-02					
YearBuilt*GarageCars	1	0.000697	0.000207	3.37	4.07E-04	4.23E-04	7.49E-04	7.01E-04	8.43E-04					
GarageCars*BldgType 1Fam	1	0.003297	0.037279	0.09	-5.59E-03	5.38E-02	4.48E-03	4.83E-02	2.80E-02					
GarageCars*BldgType 2fmCon	1	-0.063600	0.048908	-1.30	-1.35E-01	-8.52E-02	-1.22E-01	-1.34E-01	-1.00E-01					
GarageCars*BldgType Duplex	1	-0.063731	0.041609	-1.53	-2.58E-02	-5.86E-03	-3.50E-02	-6.77E-03	-3.05E-02					
GarageCars*BldgType Twnhs	1	0.026883	0.065708	0.41	8.08E-02	1.47E-01	9.70E-02	2.36E-01	1.28E-01					

Forward Selection Multiple Linear Regression

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

Number of Observations Read	2919
Number of Observations Used	1452
Number of Observations with Missing Values	1467

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	68	205.67805	3.02468	162.49	<.0001
Error	1383	25.74416	0.01861		
Corrected Total	1451	231.42221			

Root MSE	0.13644	R-Square	0.8888
Dependent Mean	12.02239	Adj R-Sq	0.8833
Coeff Var	1.13485		

Note: Model is not full rank. Least-squares solutions for the parameters are not unique. Some statistics will be misleading. A reported DF of 0 or B means that the estimate is biased.

Note: The following parameters have been set to 0, since the variables are a linear combination of other variables as shown.

MasVnrAre*HouseStyle 1.5Unf =	0
MasVnrAre*HouseStyle 2.5Fin =	0
MasVnrAre*HouseStyle 2.5Unf =	0

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	-3.96379	2.06028	-1.92	0.0546
GrLlvArea_I	GrLlvArea_I	1	0.37322	0.12676	2.94	0.0033
LotArea	LotArea	1	0.00003341	0.00000963	3.47	0.0005
OverallCond	OverallCond	1	1.63969	0.27226	6.02	<.0001
GrLlvArea*OverallCon	GrLlvArea*OverallCon	1	-0.02190	0.01029	-2.13	0.0335
LotArea*OverallCond	LotArea*OverallCond	1	8.269223E-7	7.652534E-7	1.08	0.2801
YearBuilt	YearBuilt	1	0.00620	0.00094887	6.54	<.0001
OverallCon*YearBuilt	OverallCon*YearBuilt	1	-0.00072673	0.00013118	-5.54	<.0001
MasVnrArea	MasVnrArea	1	-0.01744	0.00287	-6.08	<.0001
GrLlvArea*MasVnrArea	GrLlvArea*MasVnrArea	1	0.00027888	0.00013458	2.07	0.0384
LotArea*MasVnrArea	LotArea*MasVnrArea	1	5.70704E-10	2.532737E-9	0.23	0.8218
YearBuilt*MasVnrArea	YearBuilt*MasVnrArea	1	0.00000798	0.00000144	5.55	<.0001
TotalBsmtSF	TotalBsmtSF	1	-0.00240	0.00098728	-2.43	0.0154

Forward Selection Multiple Linear Regression

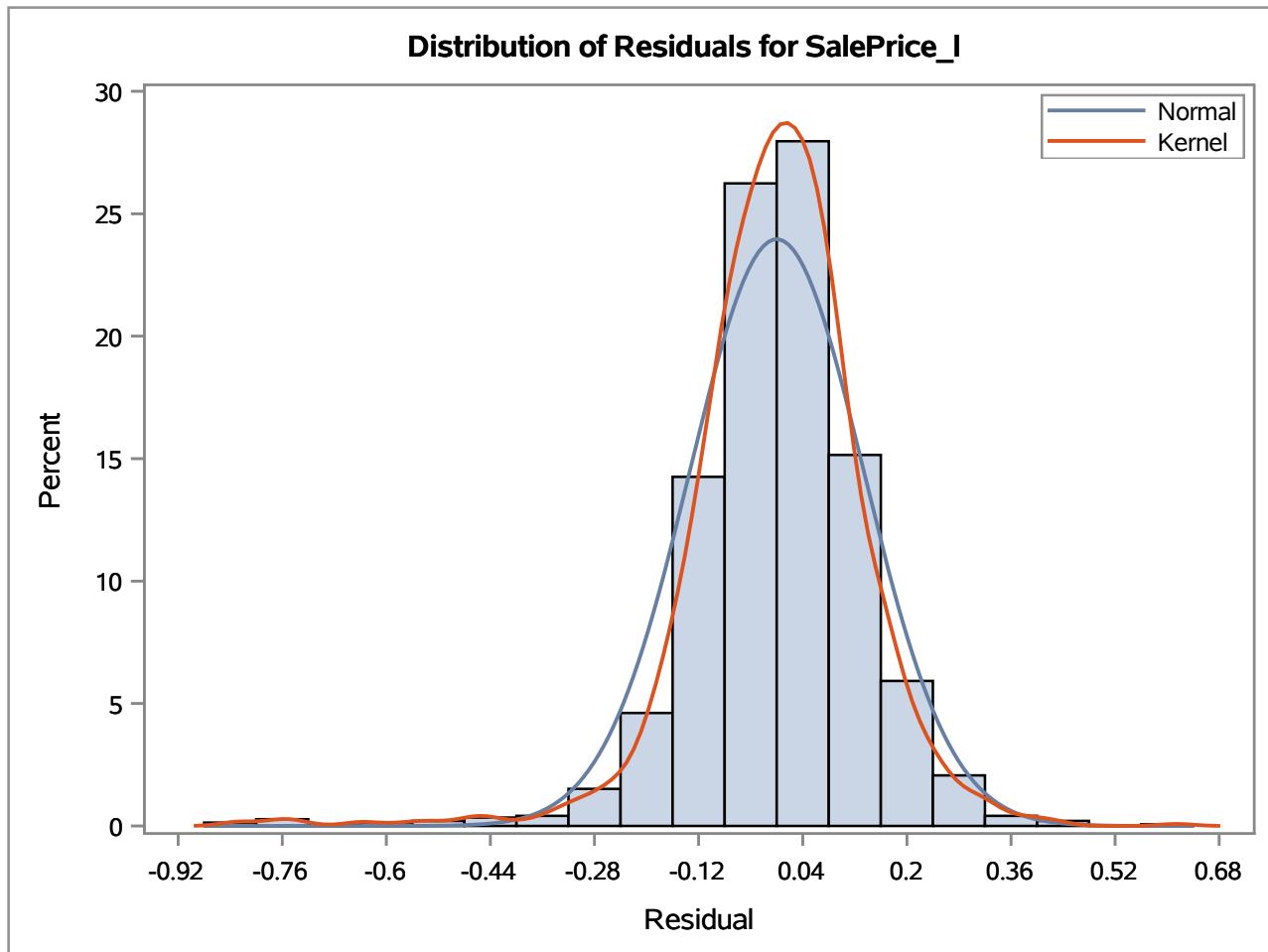
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
GrLlvArea*TotalBsmtS	GrLlvArea*TotalBsmtS	1	-0.00010660	0.00003785	-2.82	0.0049
LotArea*TotalBsmtSF	LotArea*TotalBsmtSF	1	-6.93867E-9	9.39277E-10	-7.39	<.0001
YearBuilt*TotalBsmtS	YearBuilt*TotalBsmtS	1	0.00000180	5.187054E-7	3.47	0.0005
MasVnrAre*TotalBsmtS	MasVnrAre*TotalBsmtS	1	-3.13475E-7	8.365653E-8	-3.75	0.0002
Fireplaces	Fireplaces	1	2.36124	0.53752	4.39	<.0001
GrLlvArea*Fireplaces	GrLlvArea*Fireplaces	1	0.03140	0.02403	1.31	0.1916
YearBuilt*Fireplaces	YearBuilt*Fireplaces	1	-0.00133	0.00026079	-5.09	<.0001
TotalBsmt*Fireplaces	TotalBsmt*Fireplaces	1	0.00006531	0.00001943	3.36	0.0008
BldgType 1Fam	BldgType 1Fam	1	-0.70047	0.49564	-1.41	0.1578
BldgType 2fmCon	BldgType 2fmCon	1	-0.34224	0.78210	-0.44	0.6617
BldgType Duplex	BldgType Duplex	1	0.91410	0.71177	1.28	0.1993
BldgType Twnhs	BldgType Twnhs	1	-0.47238	1.06450	-0.44	0.6573
GrLlvArea_I*BldgType 1Fam	GrLlvArea_I*BldgType 1Fam	1	0.12391	0.07452	1.66	0.0966
GrLlvArea_I*BldgType 2fmCon	GrLlvArea_I*BldgType 2fmCon	1	0.05770	0.11233	0.51	0.6076
GrLlvArea_I*BldgType Duplex	GrLlvArea_I*BldgType Duplex	1	-0.08518	0.10381	-0.82	0.4120
GrLlvArea_I*BldgType Twnhs	GrLlvArea_I*BldgType Twnhs	1	0.08057	0.16016	0.50	0.6150
LotArea*BldgType 1Fam	LotArea*BldgType 1Fam	1	-0.00001701	0.00000673	-2.53	0.0116
LotArea*BldgType 2fmCon	LotArea*BldgType 2fmCon	1	-0.00001591	0.00000695	-2.29	0.0222
LotArea*BldgType Duplex	LotArea*BldgType Duplex	1	-0.00002401	0.00000950	-2.53	0.0116
LotArea*BldgType Twnhs	LotArea*BldgType Twnhs	1	0.00014243	0.00005668	2.51	0.0121
TotalBsmtSF*BldgType 1Fam	TotalBsmtSF*BldgType 1Fam	1	-0.00011649	0.00005828	-2.00	0.0458
TotalBsmtSF*BldgType 2fmCon	TotalBsmtSF*BldgType 2fmCon	1	0.00004902	0.00011299	0.43	0.6645
TotalBsmtSF*BldgType Duplex	TotalBsmtSF*BldgType Duplex	1	-0.00013565	0.00006900	-1.97	0.0495
TotalBsmtSF*BldgType Twnhs	TotalBsmtSF*BldgType Twnhs	1	-0.00067527	0.00022376	-3.02	0.0026
HouseStyle 1.5Fin	HouseStyle 1.5Fin	1	-1.93016	0.65318	-2.96	0.0032
HouseStyle 1.5Unf	HouseStyle 1.5Unf	1	-0.40144	2.30146	-0.17	0.8616
HouseStyle 1Story	HouseStyle 1Story	1	-0.68028	0.57221	-1.19	0.2347
HouseStyle 2.5Fin	HouseStyle 2.5Fin	1	-2.38424	4.47500	-0.53	0.5943
HouseStyle 2.5Unf	HouseStyle 2.5Unf	1	-0.78166	1.71082	-0.46	0.6478
HouseStyle 2Story	HouseStyle 2Story	1	-1.80485	0.59765	-3.02	0.0026
HouseStyle Soyer	HouseStyle Soyer	1	0.19410	1.17575	0.17	0.8689
GrLlvArea*HouseStyle 1.5Fin	GrLlvArea*HouseStyle 1.5Fin	1	0.27381	0.09230	2.97	0.0031
GrLlvArea*HouseStyle 1.5Unf	GrLlvArea*HouseStyle 1.5Unf	1	0.03362	0.33796	0.10	0.9208

Forward Selection Multiple Linear Regression

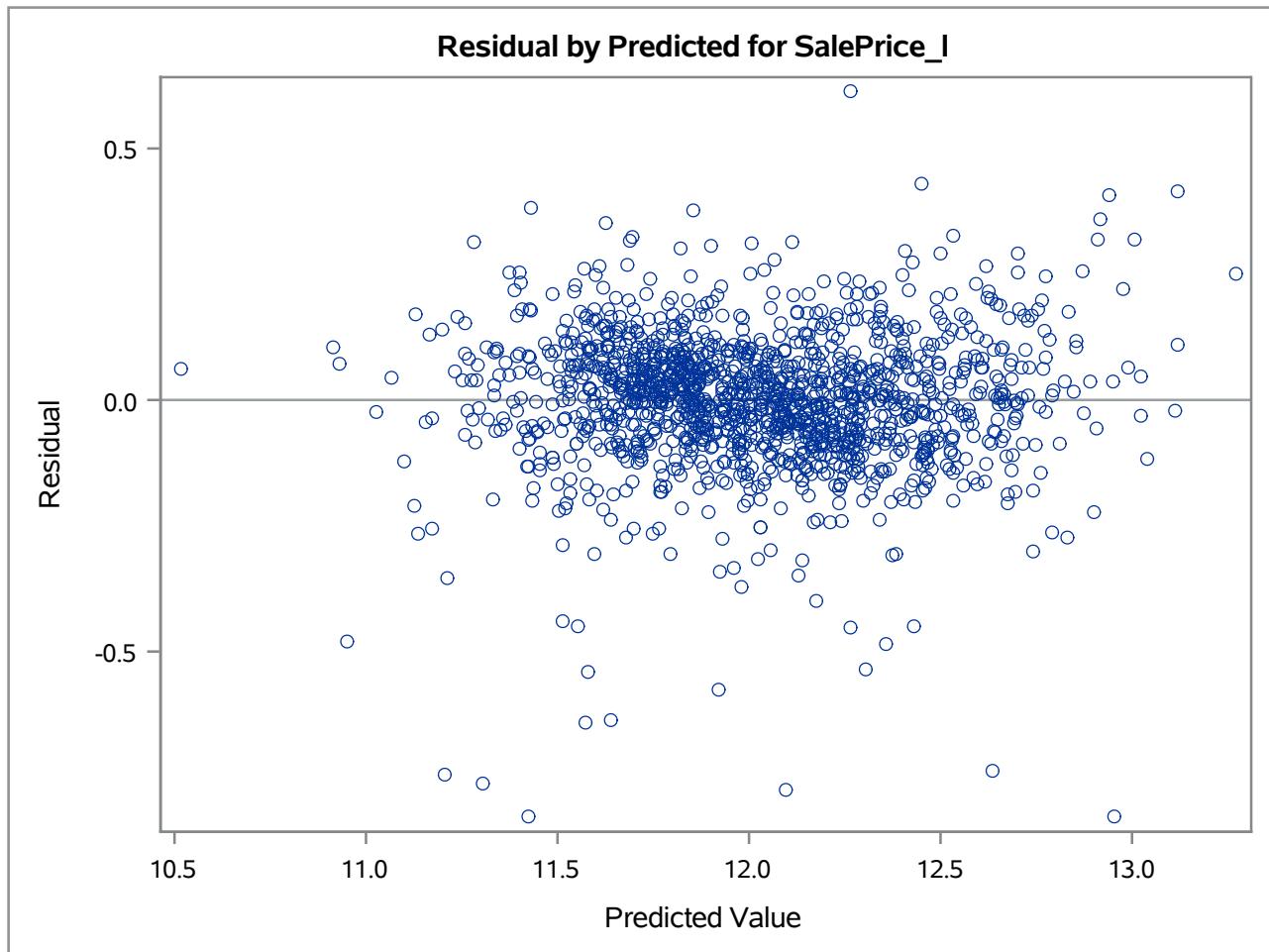
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

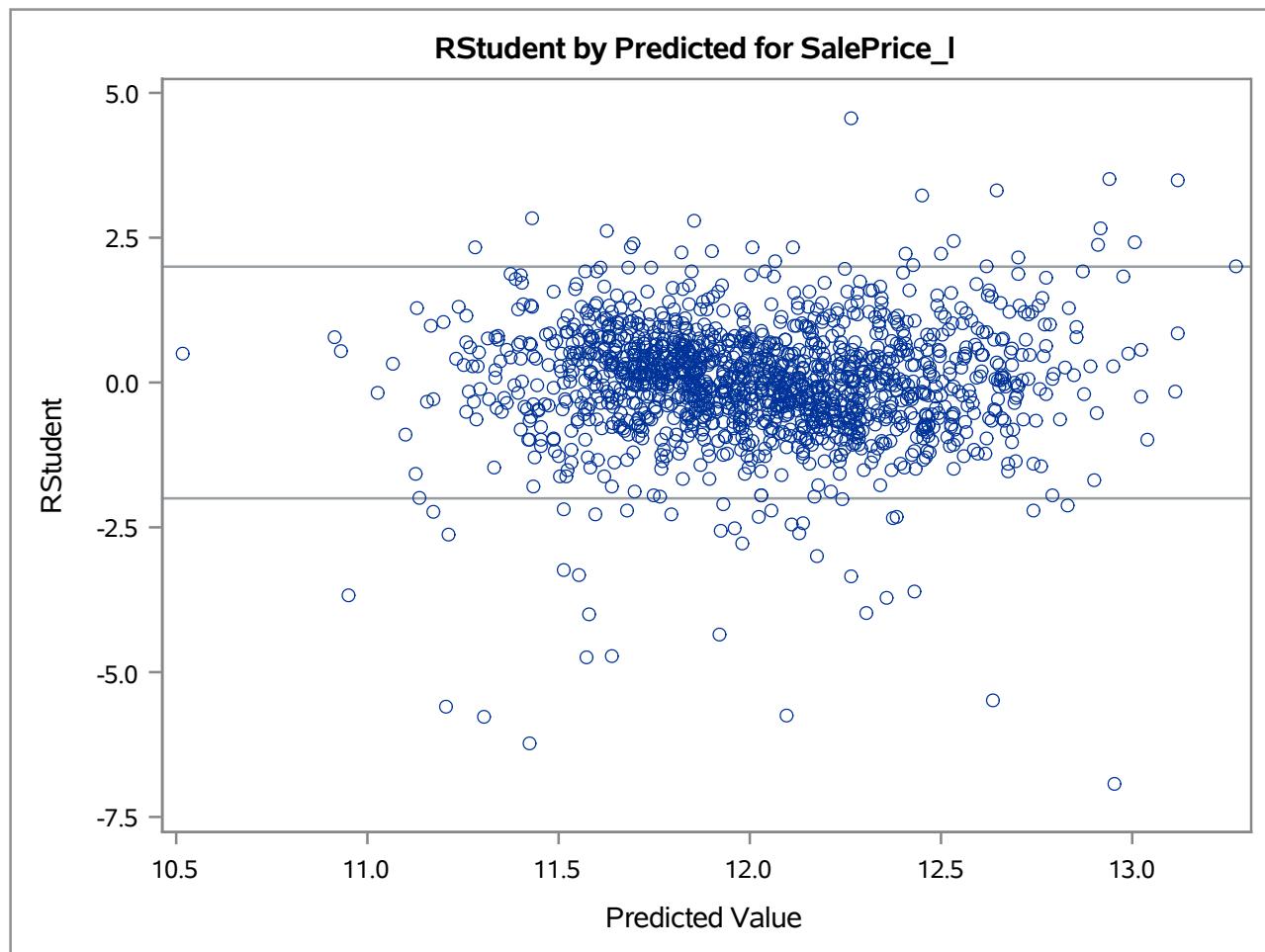
Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
GrLlvArea*HouseStyle 1Story	GrLlvArea*HouseStyle 1Story	1	0.09294	0.08214	1.13	0.2580
GrLlvArea*HouseStyle 2.5Fin	GrLlvArea*HouseStyle 2.5Fin	1	0.29764	0.59500	0.50	0.6170
GrLlvArea*HouseStyle 2.5Unf	GrLlvArea*HouseStyle 2.5Unf	1	0.05936	0.24621	0.24	0.8095
GrLlvArea*HouseStyle 2Story	GrLlvArea*HouseStyle 2Story	1	0.25923	0.08471	3.06	0.0023
GrLlvArea*HouseStyle SFoyer	GrLlvArea*HouseStyle SFoyer	1	-0.02465	0.17952	-0.14	0.8908
LotArea*HouseStyle 1.5Fin	LotArea*HouseStyle 1.5Fin	1	-0.00001181	0.00000571	-2.07	0.0388
LotArea*HouseStyle 1.5Unf	LotArea*HouseStyle 1.5Unf	1	0.00002002	0.00002159	0.93	0.3539
LotArea*HouseStyle 1Story	LotArea*HouseStyle 1Story	1	-0.00000480	0.00000555	-0.86	0.3875
LotArea*HouseStyle 2.5Fin	LotArea*HouseStyle 2.5Fin	1	0.00000778	0.00002167	0.36	0.7195
LotArea*HouseStyle 2.5Unf	LotArea*HouseStyle 2.5Unf	1	0.00004192	0.00002576	1.63	0.1039
LotArea*HouseStyle 2Story	LotArea*HouseStyle 2Story	1	-0.00000970	0.00000561	-1.73	0.0840
LotArea*HouseStyle SFoyer	LotArea*HouseStyle SFoyer	1	-0.00000808	0.00001235	-0.65	0.5133
MasVnrAre*HouseStyle 1.5Fin	MasVnrAre*HouseStyle 1.5Fin	1	0.00017322	0.00017122	1.01	0.3119
MasVnrAre*HouseStyle 1.5Unf	MasVnrAre*HouseStyle 1.5Unf	0	0	.	.	.
MasVnrAre*HouseStyle 1Story	MasVnrAre*HouseStyle 1Story	1	0.00007702	0.00011208	0.69	0.4921
MasVnrAre*HouseStyle 2.5Fin	MasVnrAre*HouseStyle 2.5Fin	0	0	.	.	.
MasVnrAre*HouseStyle 2.5Unf	MasVnrAre*HouseStyle 2.5Unf	0	0	.	.	.
MasVnrAre*HouseStyle 2Story	MasVnrAre*HouseStyle 2Story	1	-0.00015863	0.00012283	-1.29	0.1968
MasVnrAre*HouseStyle SFoyer	MasVnrAre*HouseStyle SFoyer	1	0.00016985	0.00029405	0.58	0.5636
GarageCars	GarageCars	1	-1.44081	0.41790	-3.45	0.0006
GrLlvArea*GarageCars	GrLlvArea*GarageCars	1	0.01967	0.01854	1.06	0.2888
YearBuilt*GarageCars	YearBuilt*GarageCars	1	0.00069735	0.00020707	3.37	0.0008
GarageCars*BldgType 1Fam	GarageCars*BldgType 1Fam	1	0.00330	0.03728	0.09	0.9295
GarageCars*BldgType 2fmCon	GarageCars*BldgType 2fmCon	1	-0.06360	0.04891	-1.30	0.1937
GarageCars*BldgType Duplex	GarageCars*BldgType Duplex	1	-0.06373	0.04161	-1.53	0.1258
GarageCars*BldgType Twnhs	GarageCars*BldgType Twnhs	1	0.02688	0.06571	0.41	0.6825

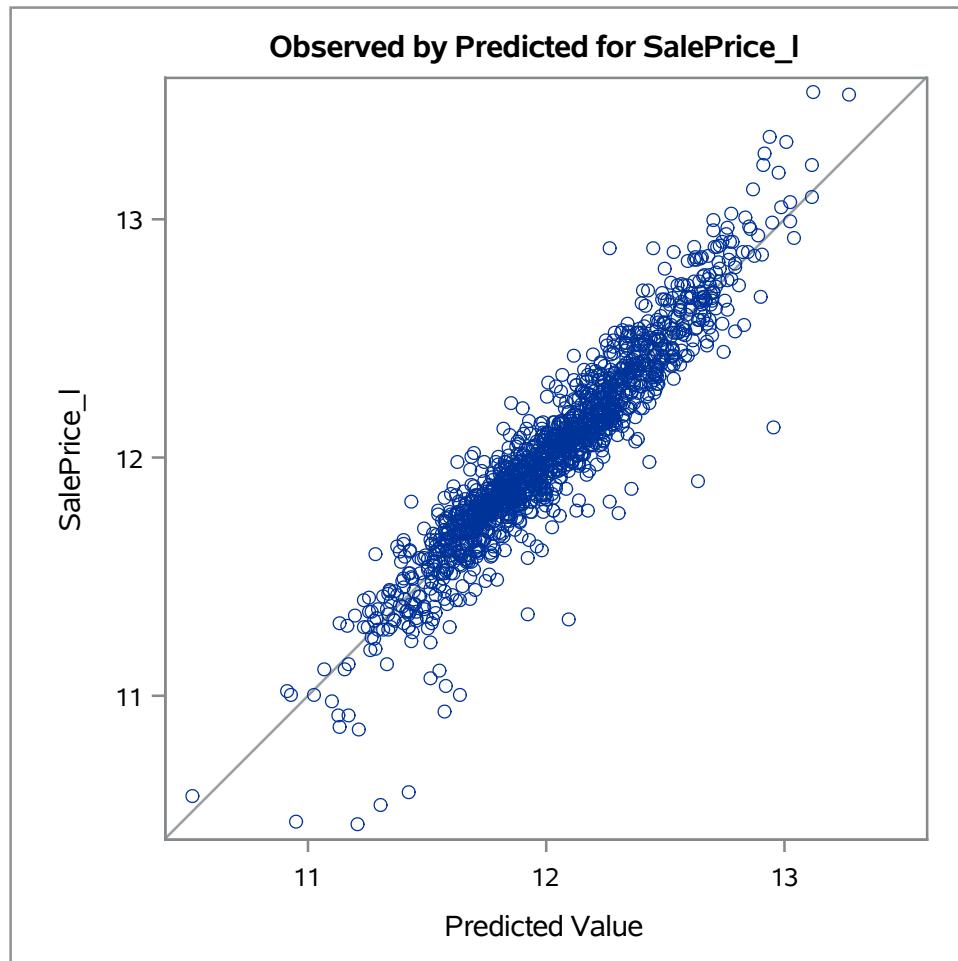
Forward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Forward Selection Multiple Linear Regression

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



Forward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

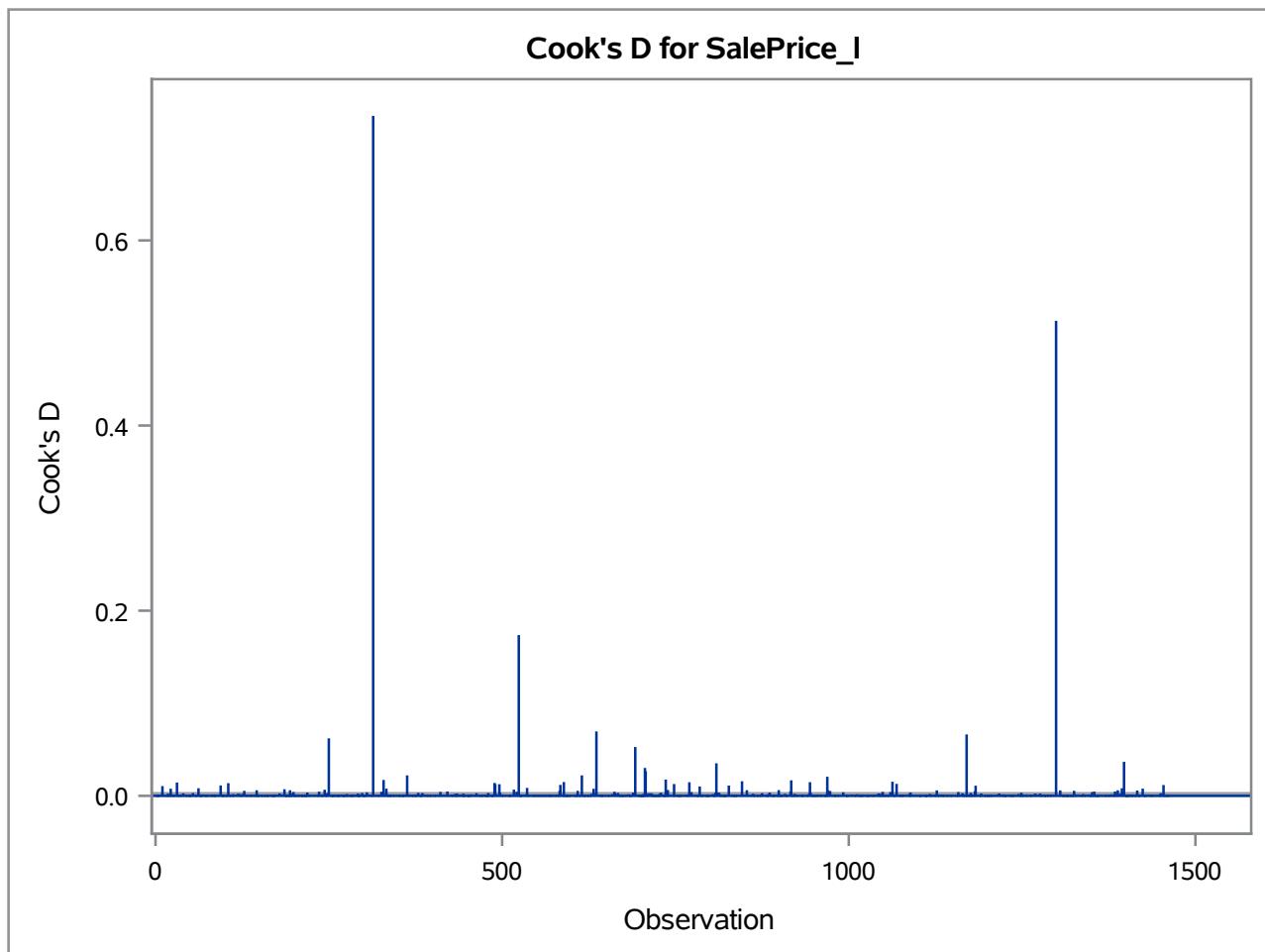
Forward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

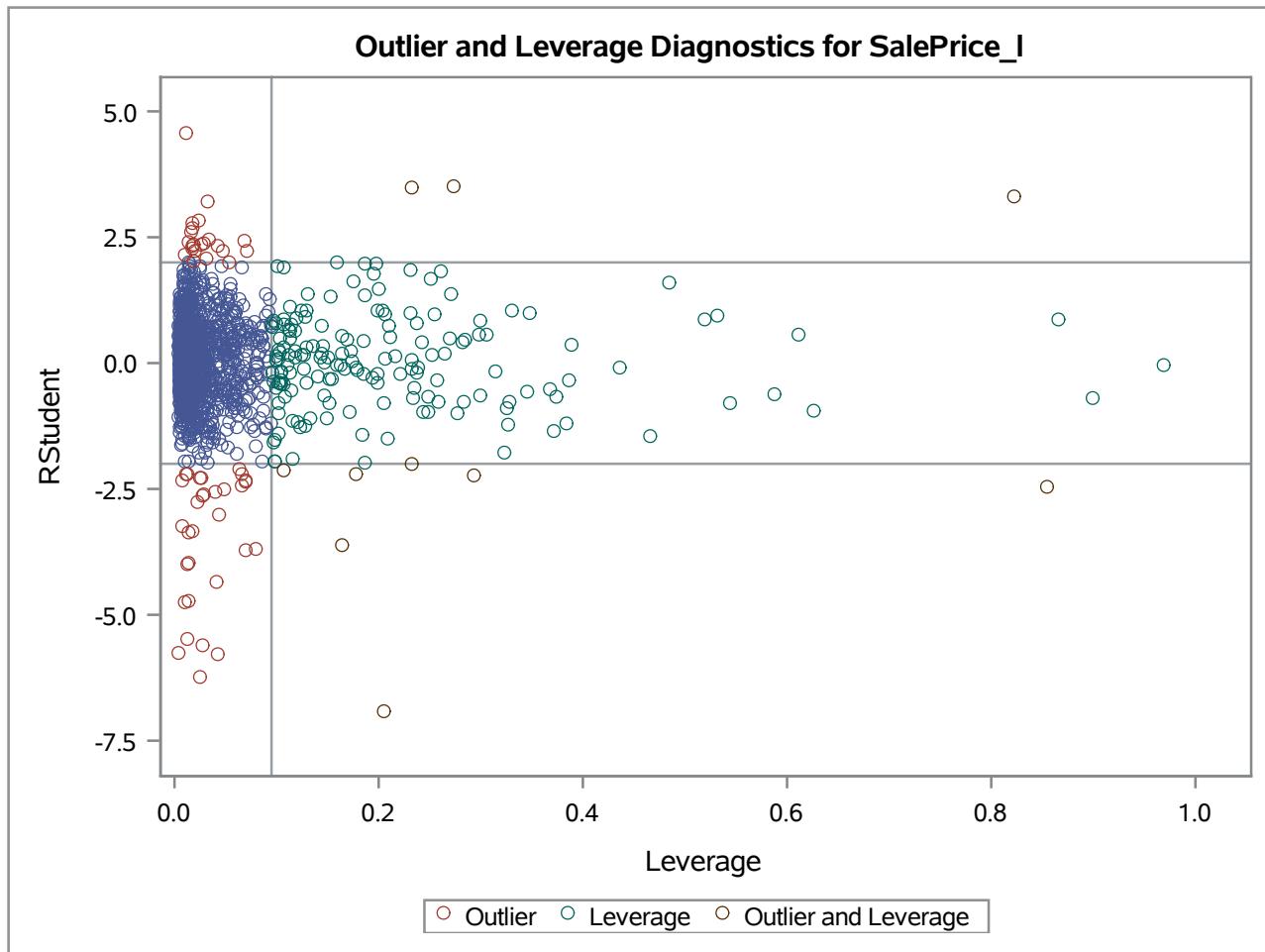


Forward Selection Multiple Linear Regression

The REG Procedure

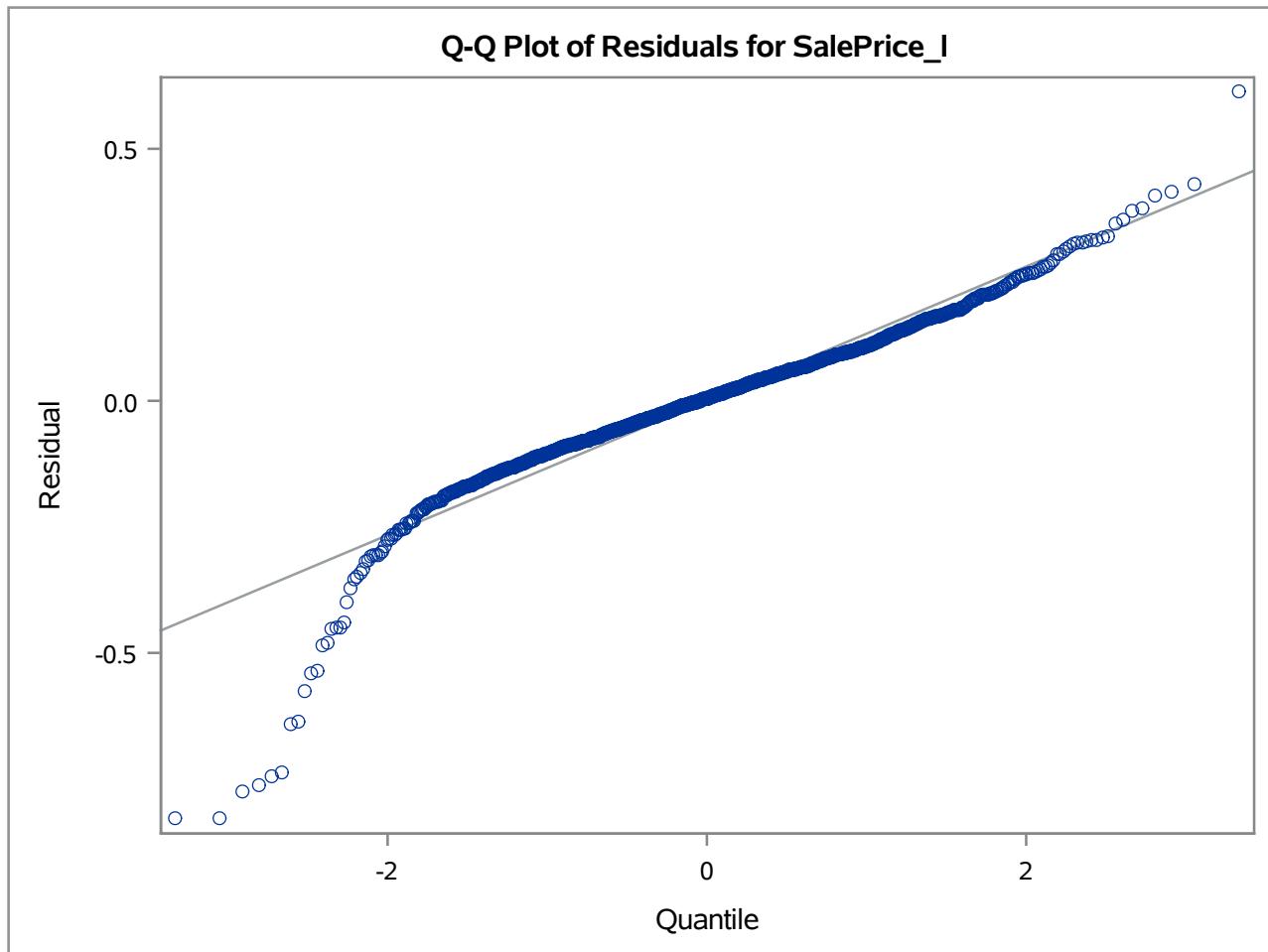
Model: MODEL1

Dependent Variable: SalePrice_I



Forward Selection Multiple Linear Regression

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



Forward Selection Multiple Linear Regression

The REG Procedure

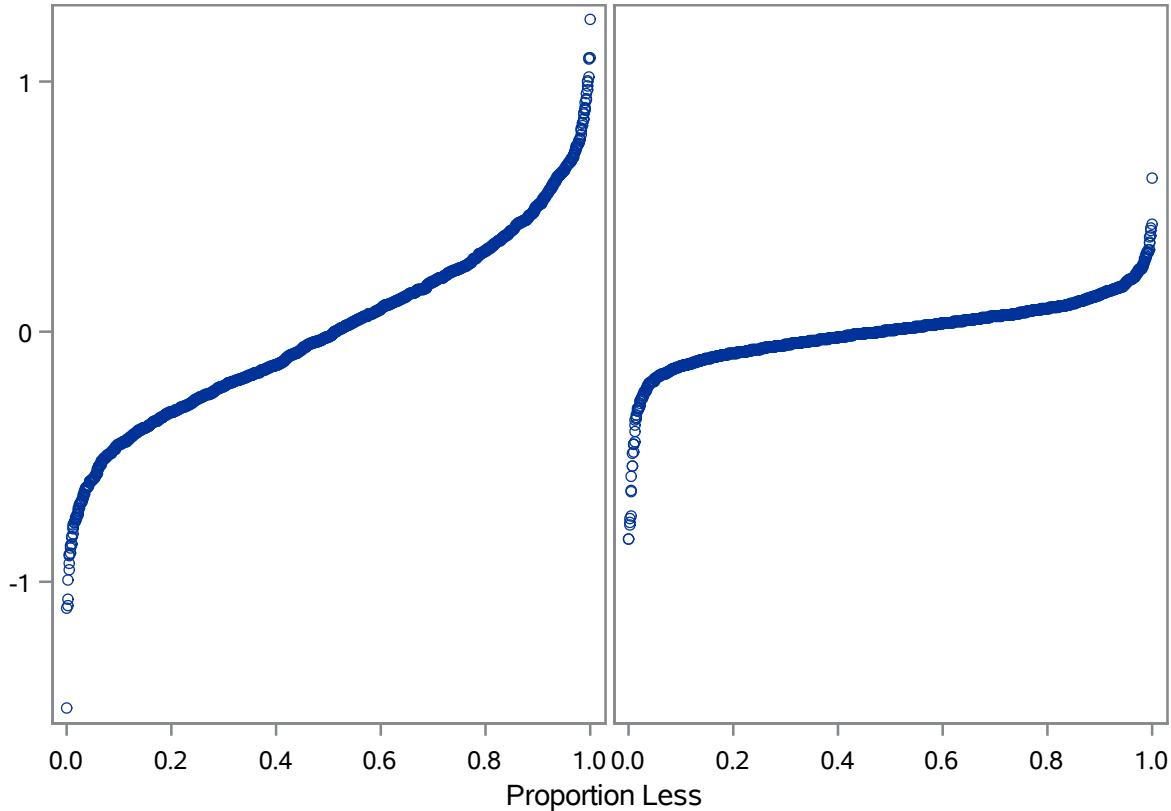
Model: MODEL1

Dependent Variable: SalePrice_I

Residual-Fit Spread Plot for SalePrice_I

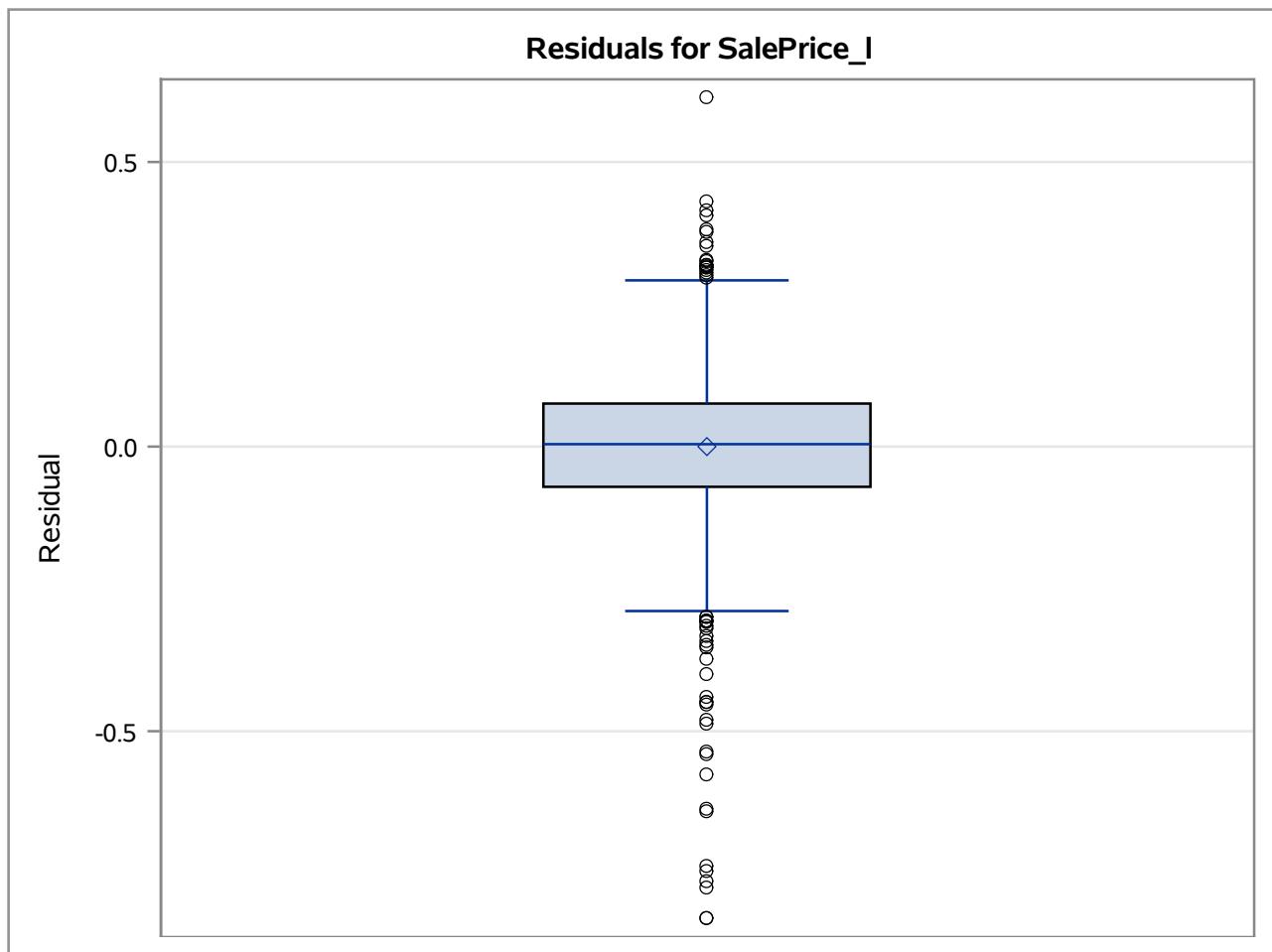
Fit-Mean

Residual



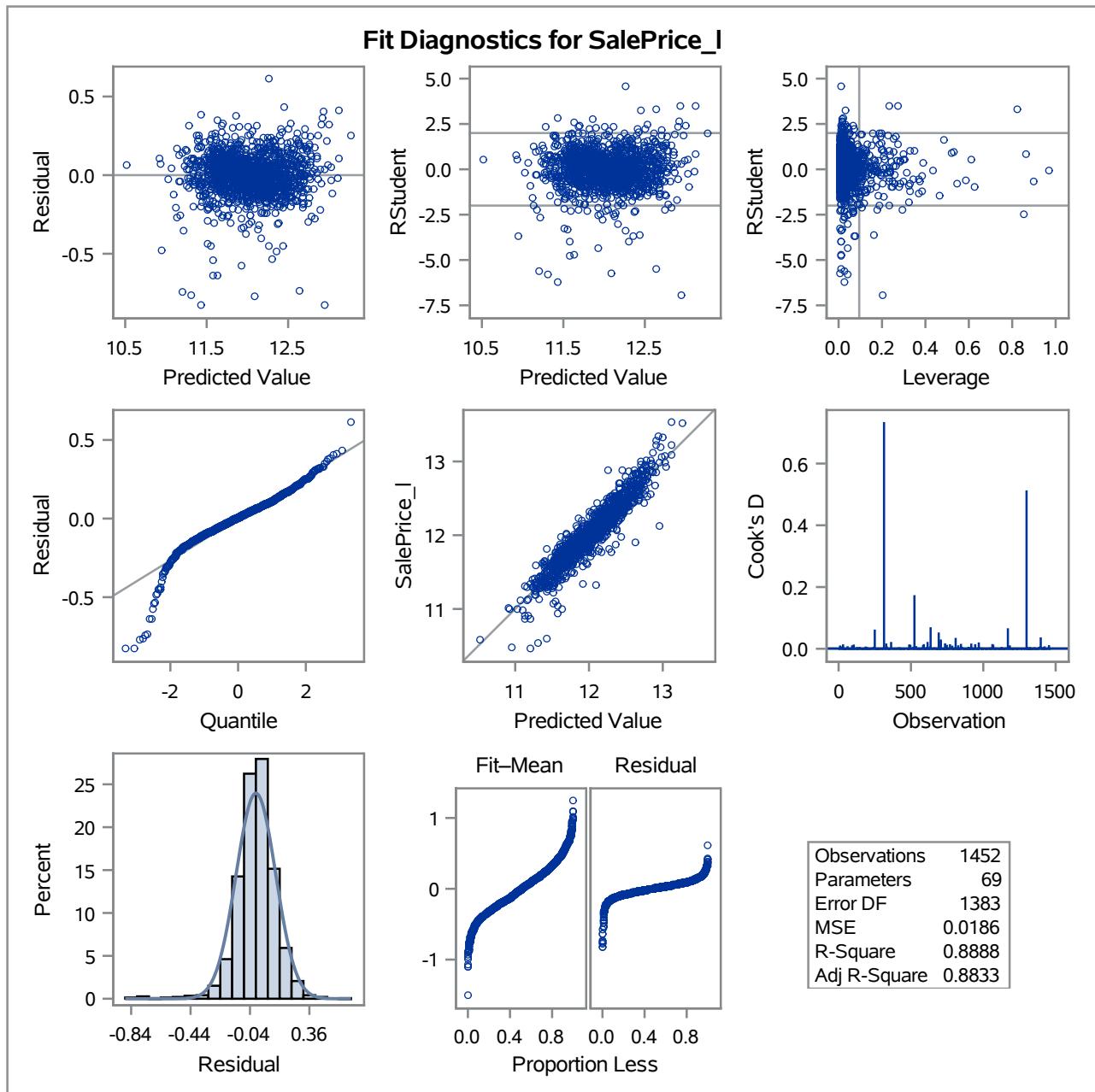
Forward Selection Multiple Linear Regression

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I



Forward Selection Multiple Linear Regression

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

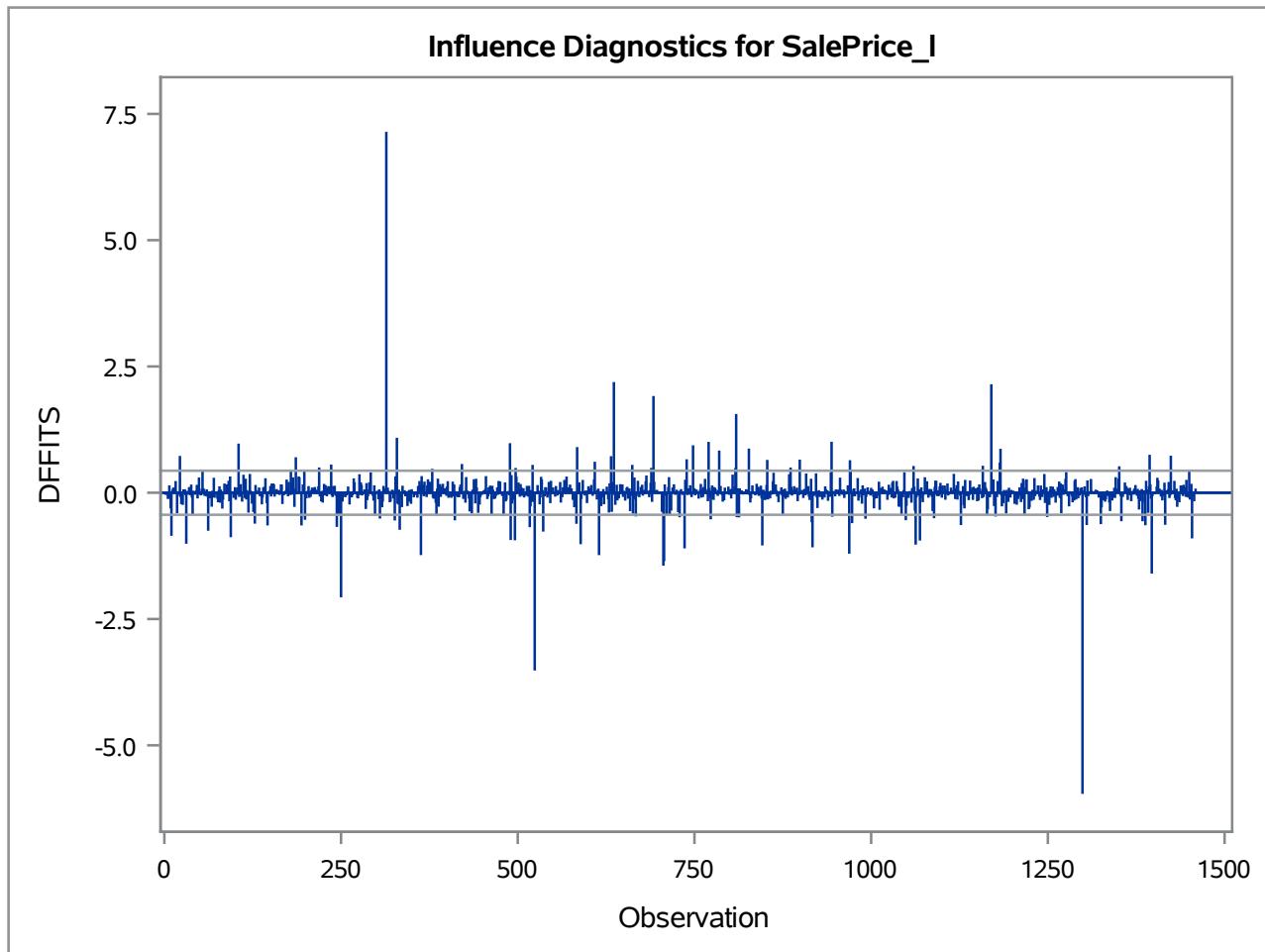


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

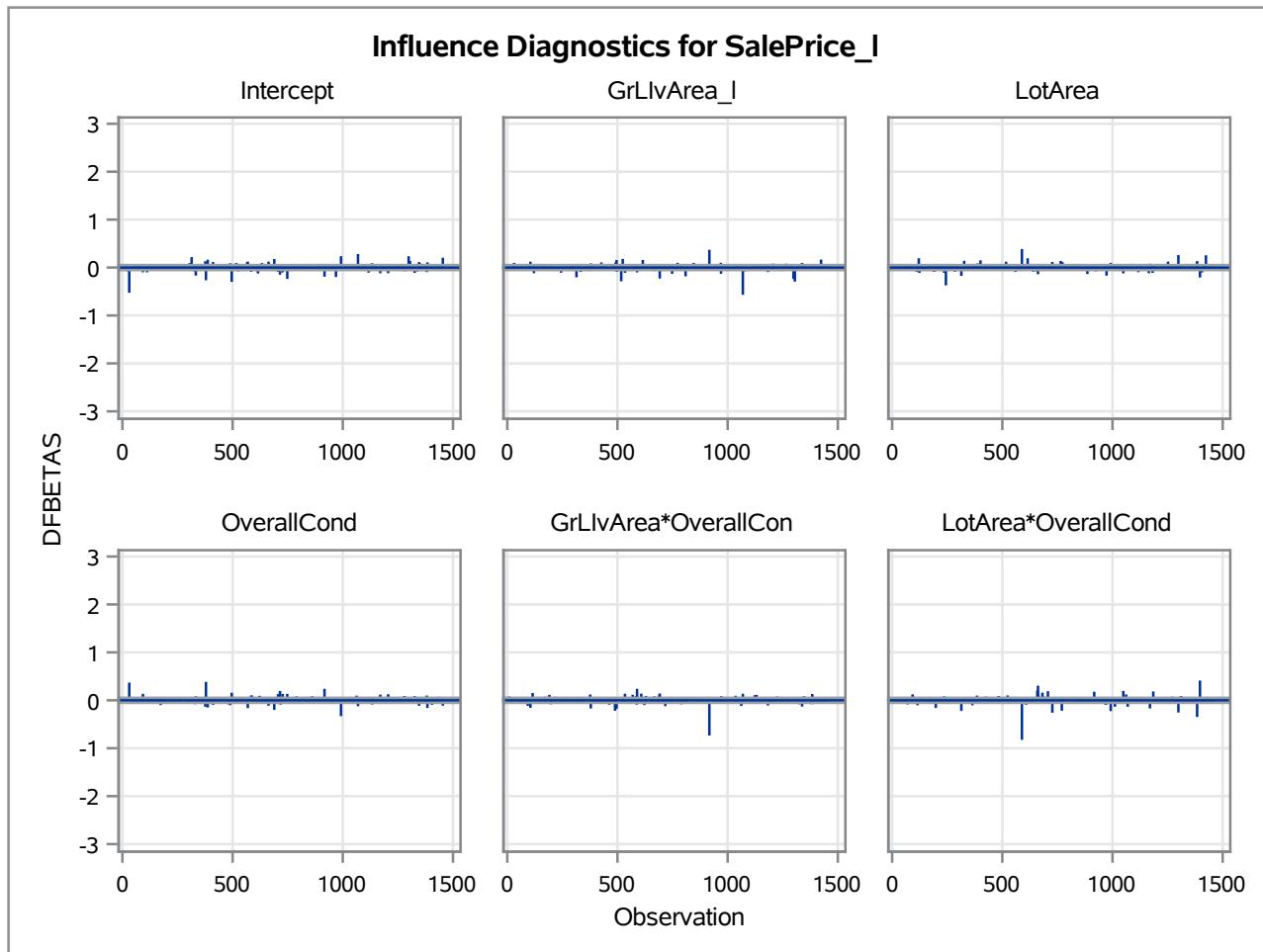


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

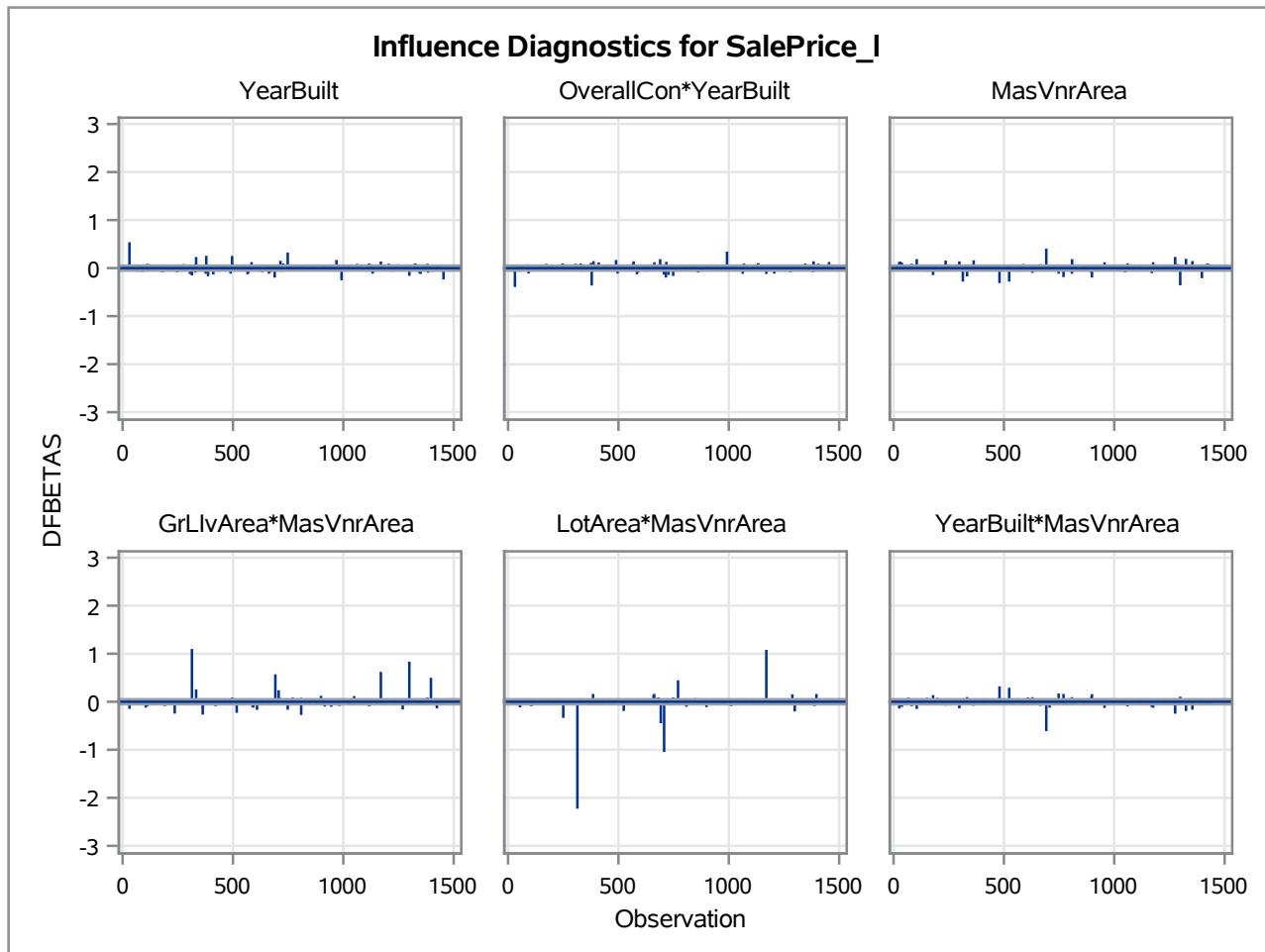


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

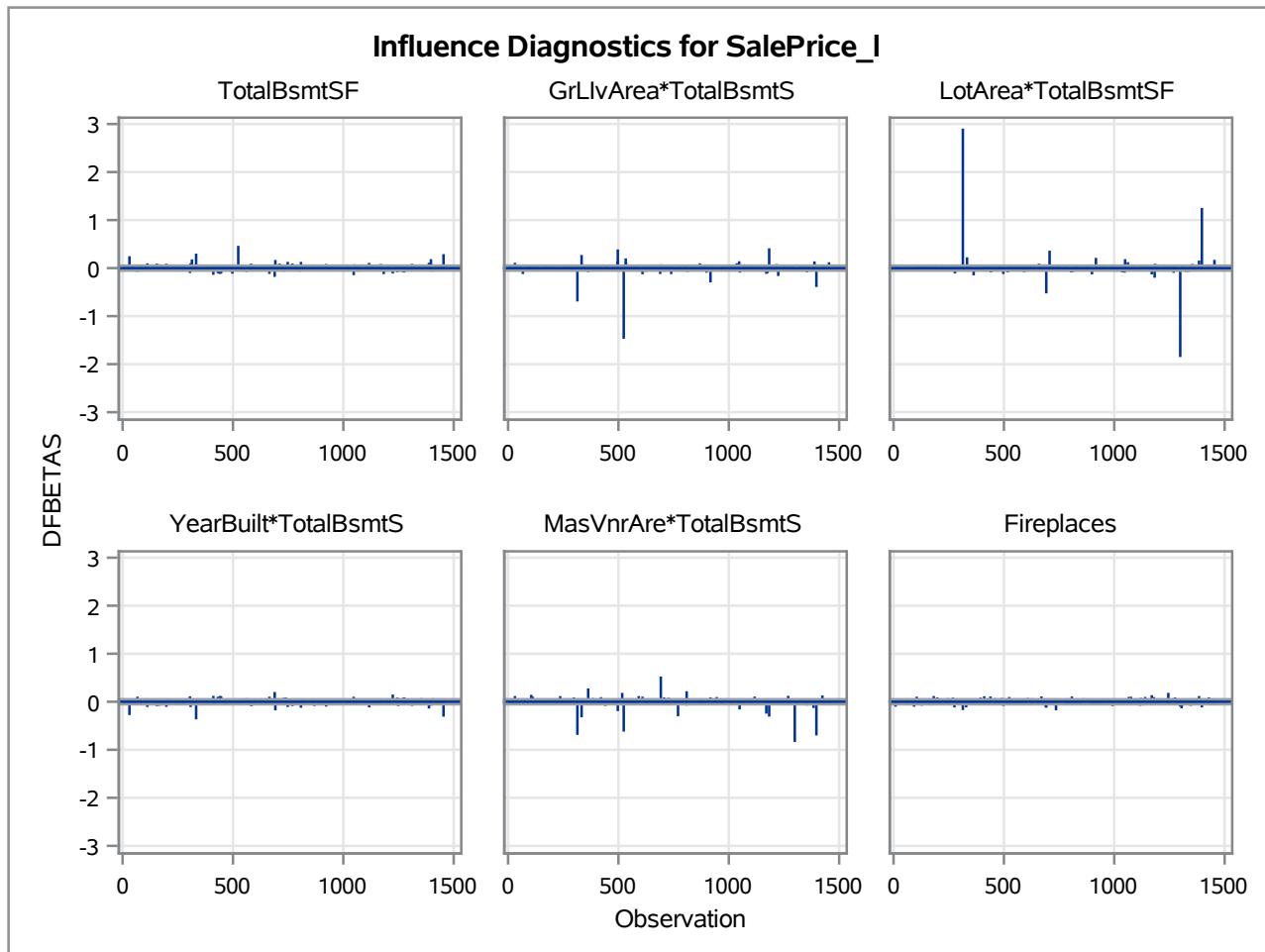


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I



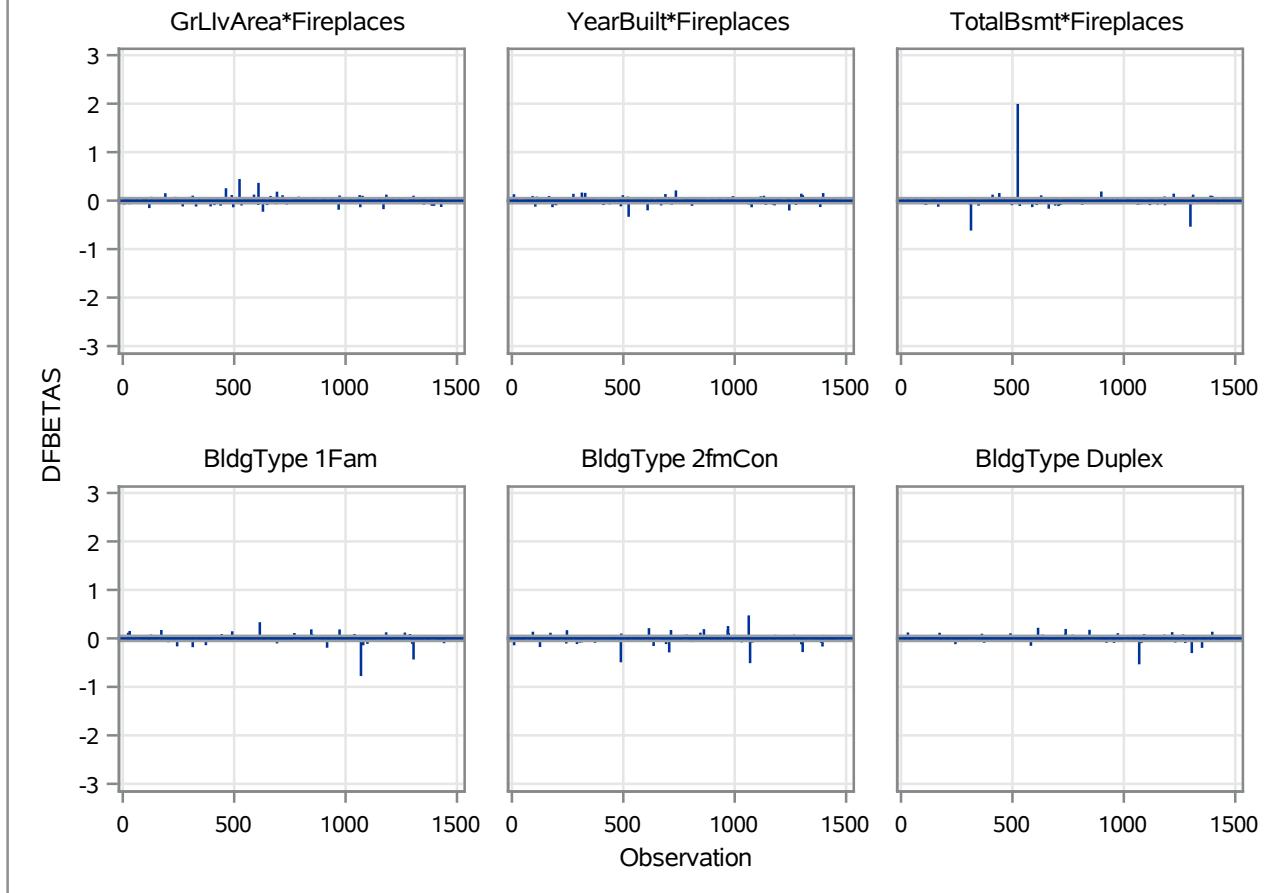
Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

Influence Diagnostics for SalePrice_I

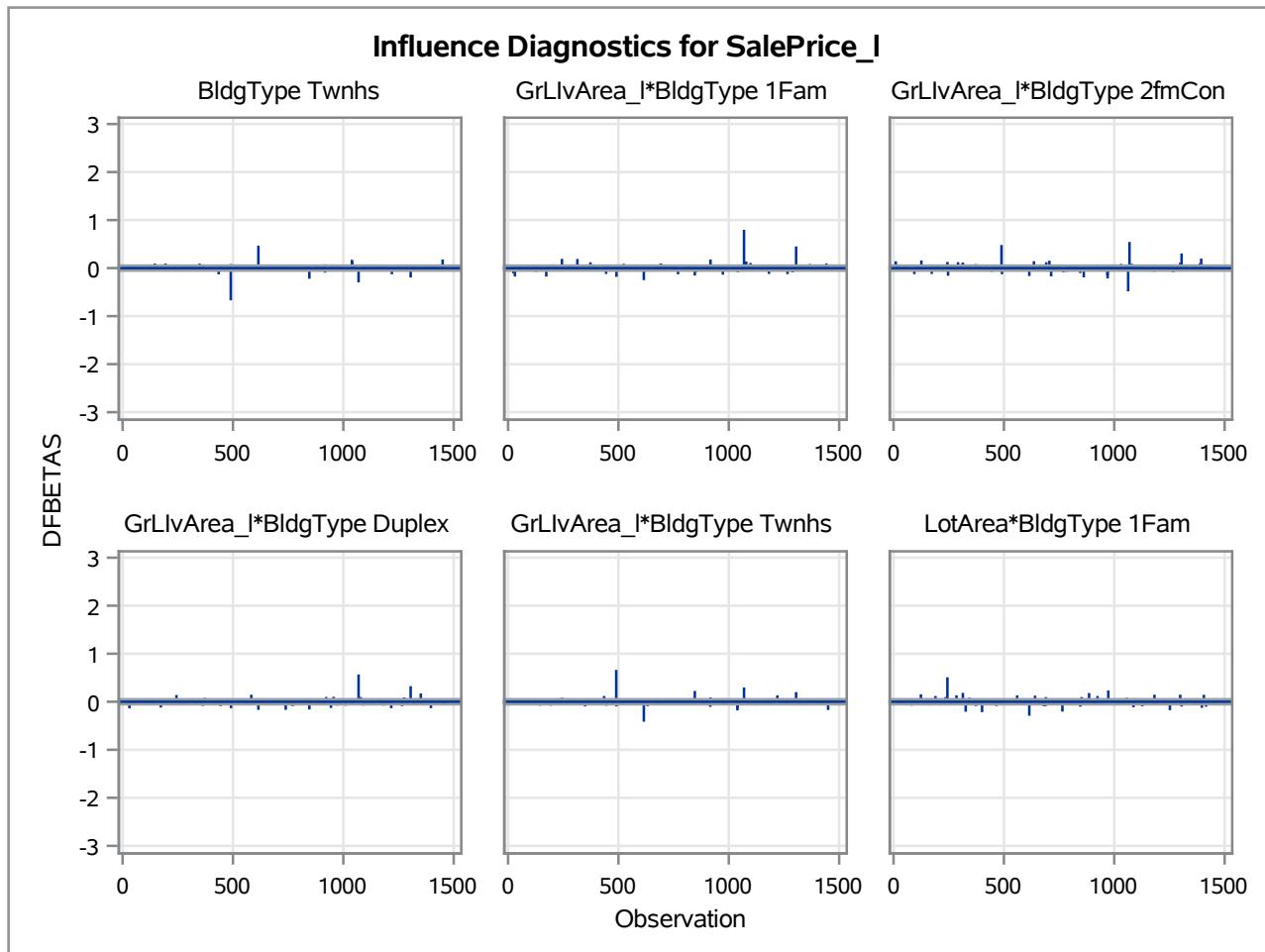


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I



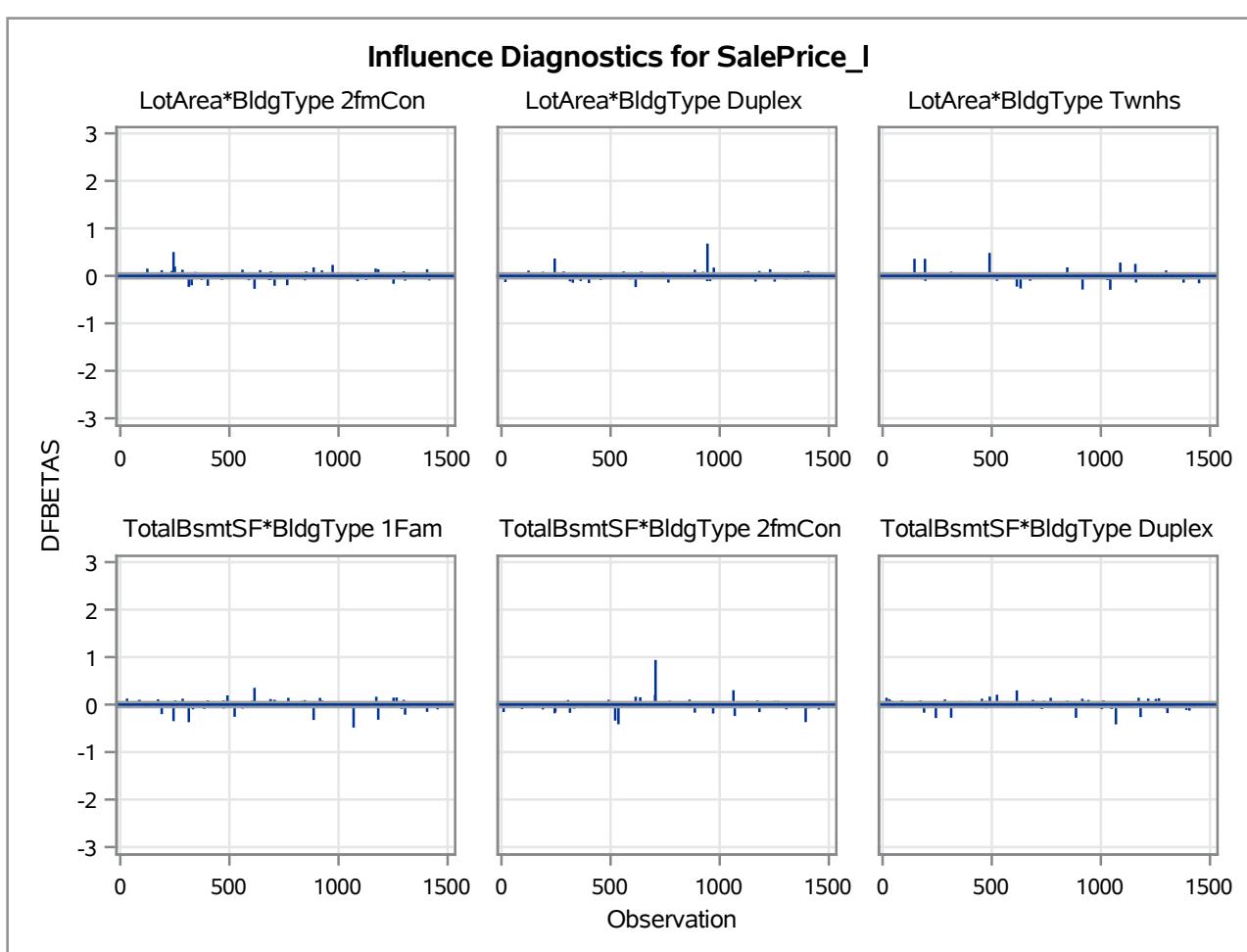
Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

Influence Diagnostics for SalePrice_I



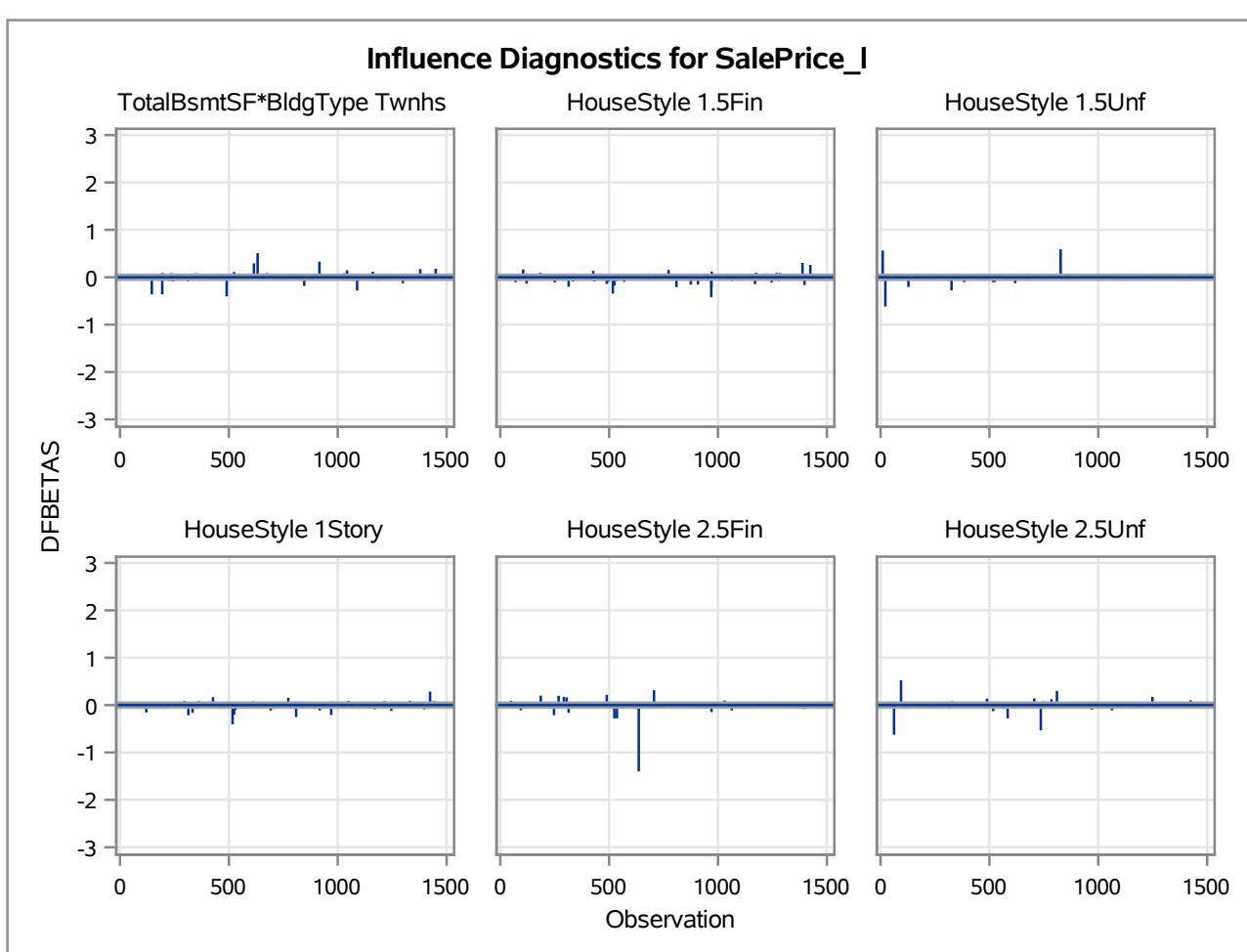
Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

Influence Diagnostics for SalePrice_I

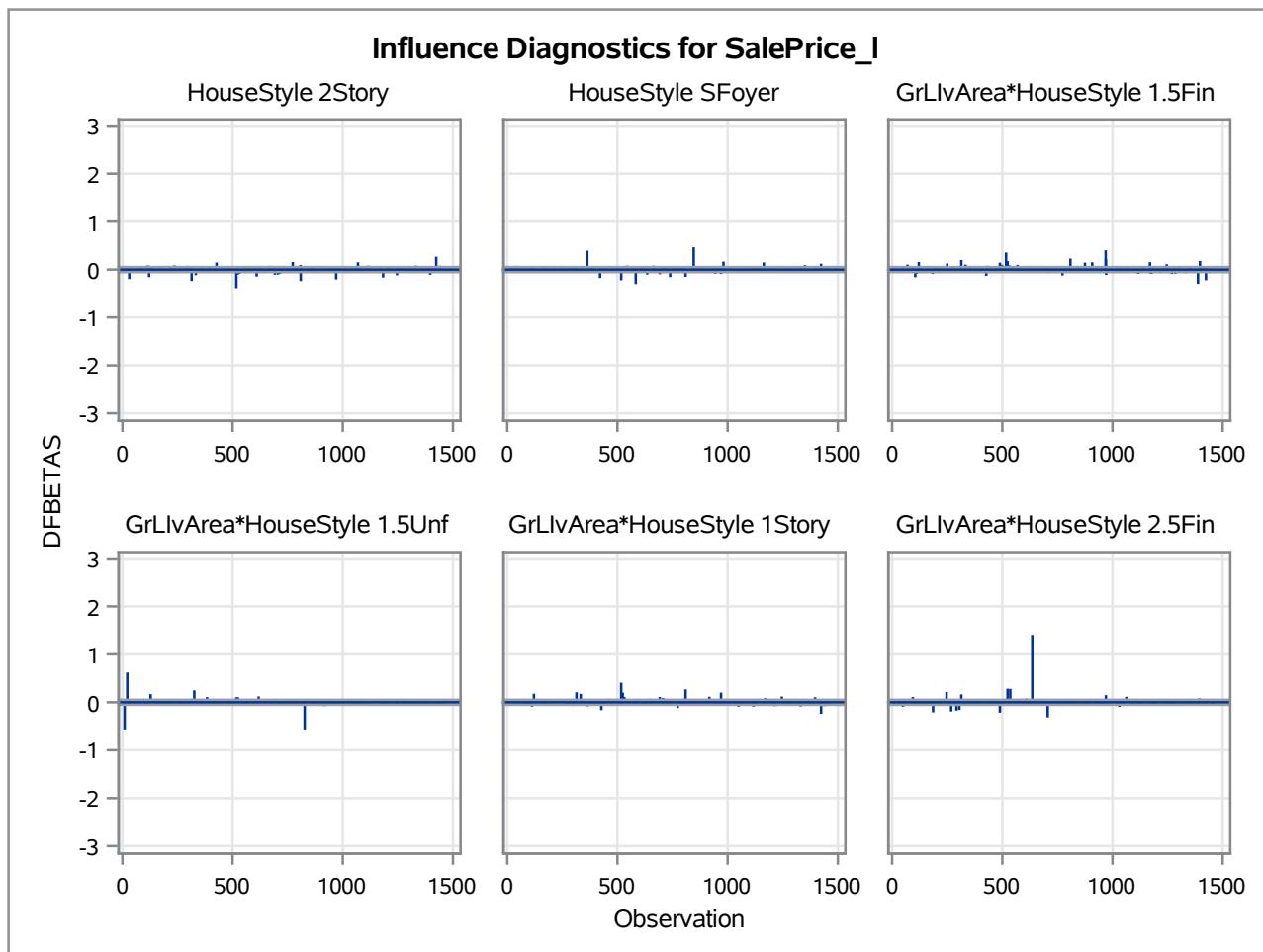


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I



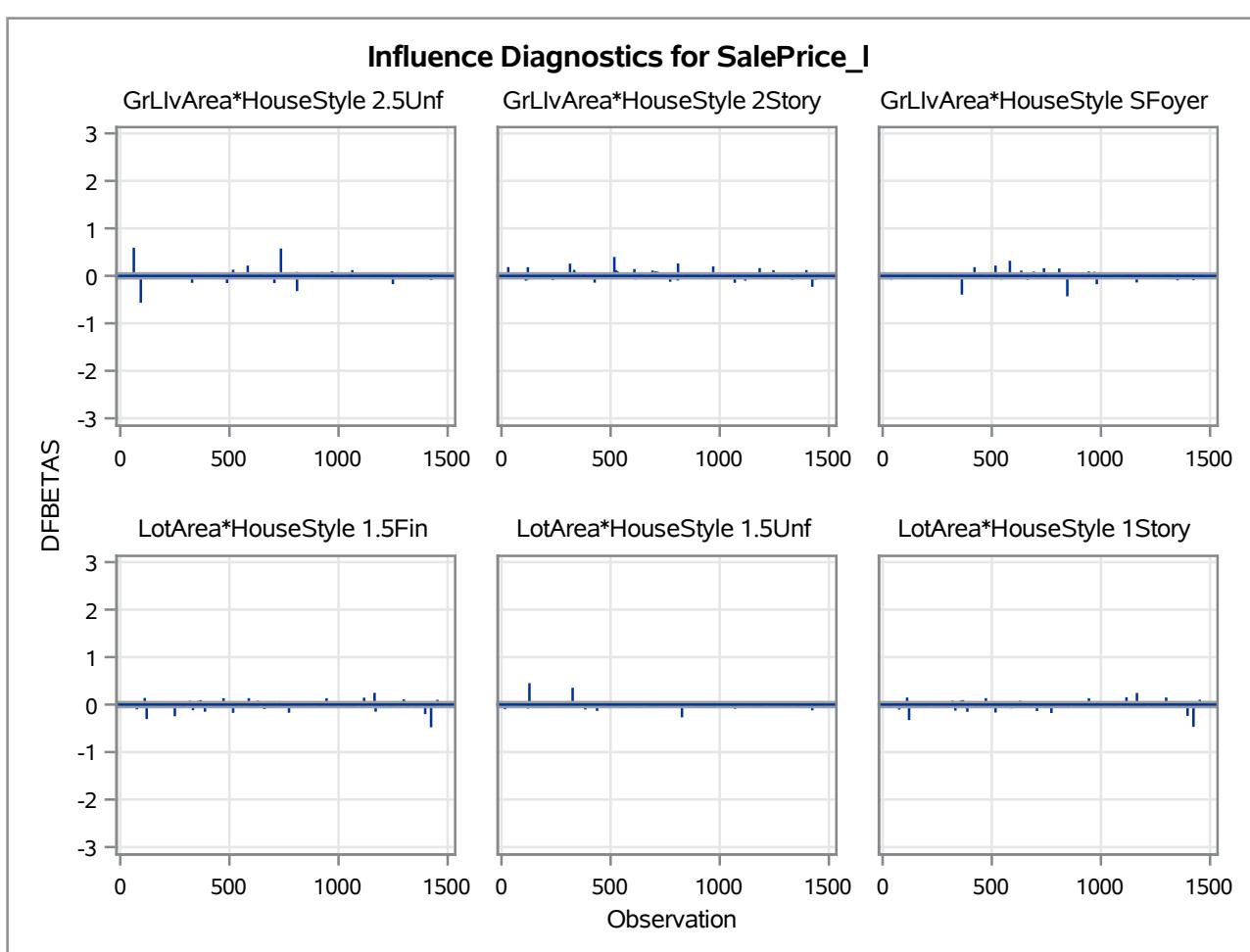
Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

Influence Diagnostics for SalePrice_I



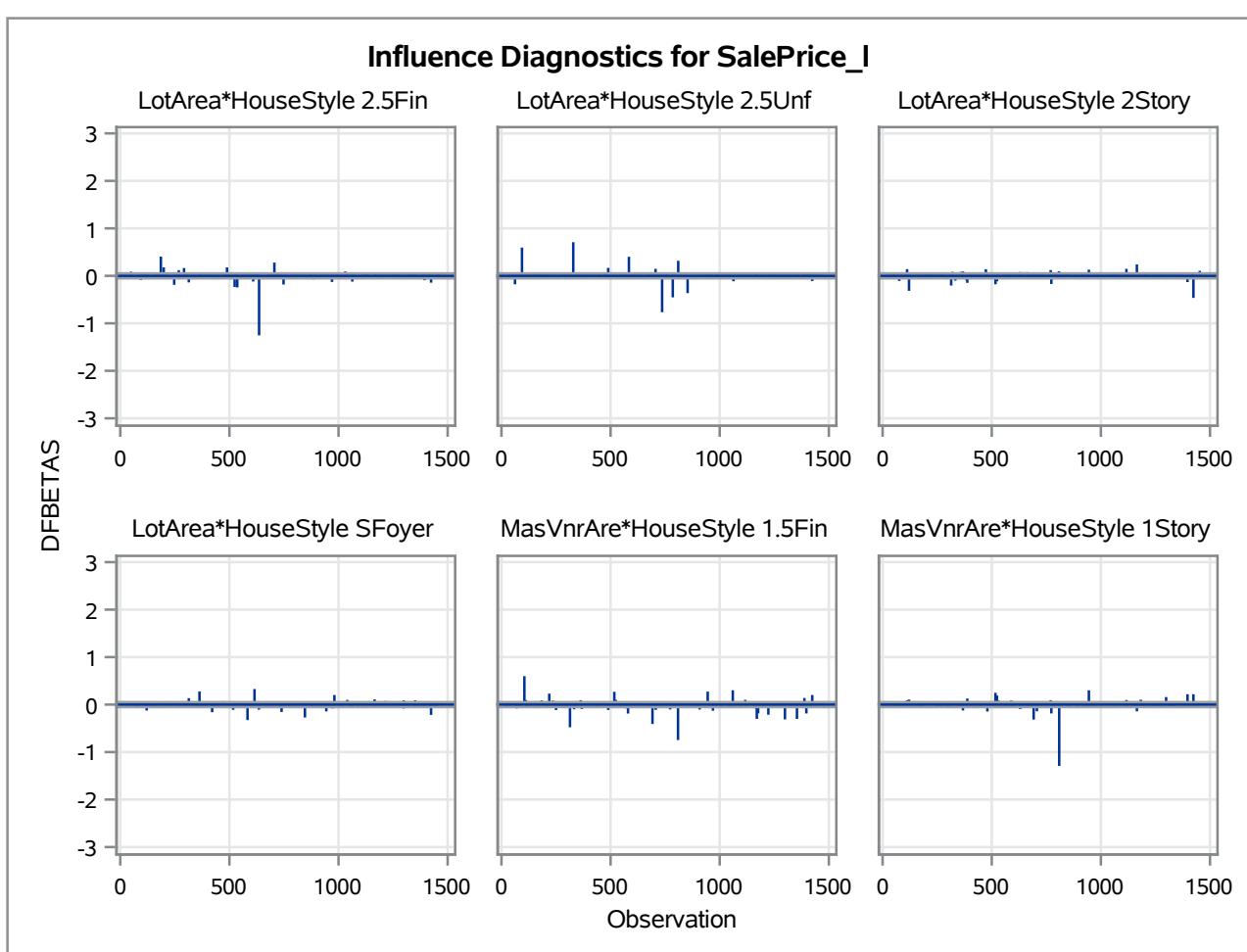
Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

Influence Diagnostics for SalePrice_I



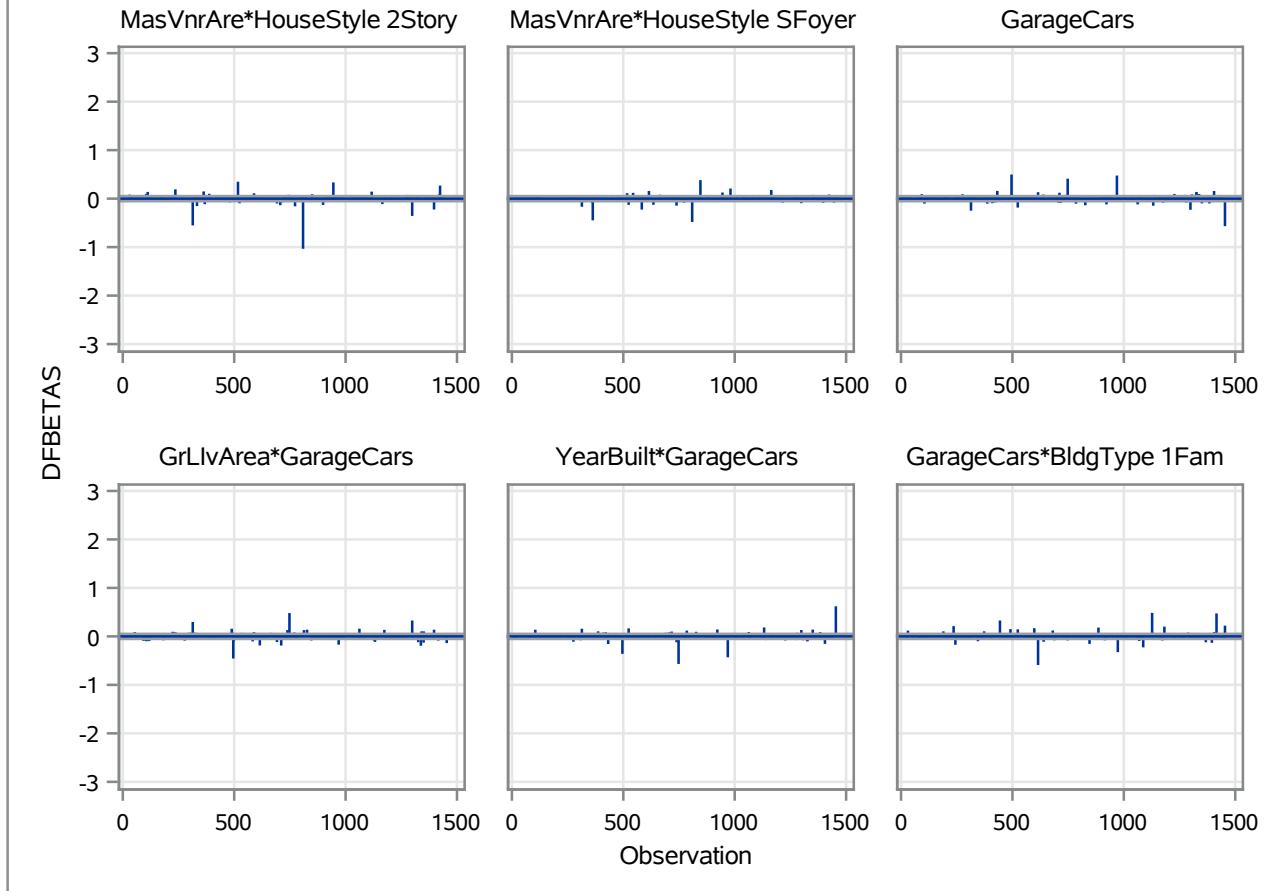
Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

Influence Diagnostics for SalePrice_I



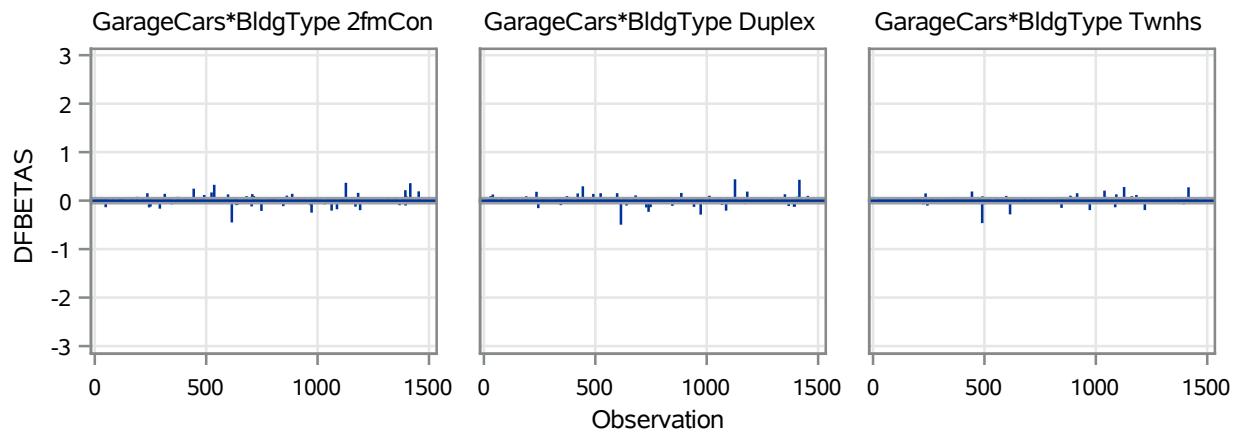
Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

Influence Diagnostics for SalePrice_I

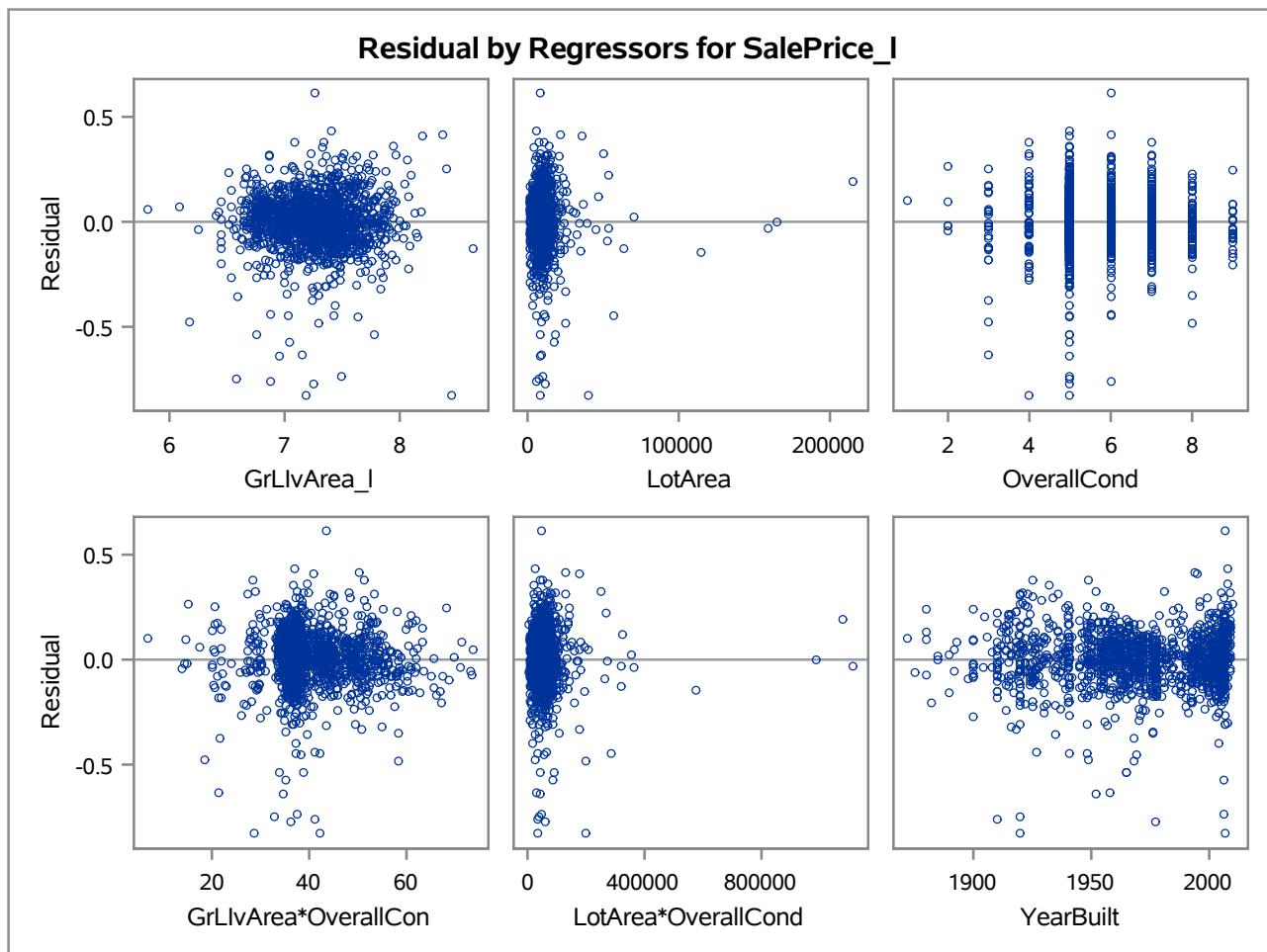


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

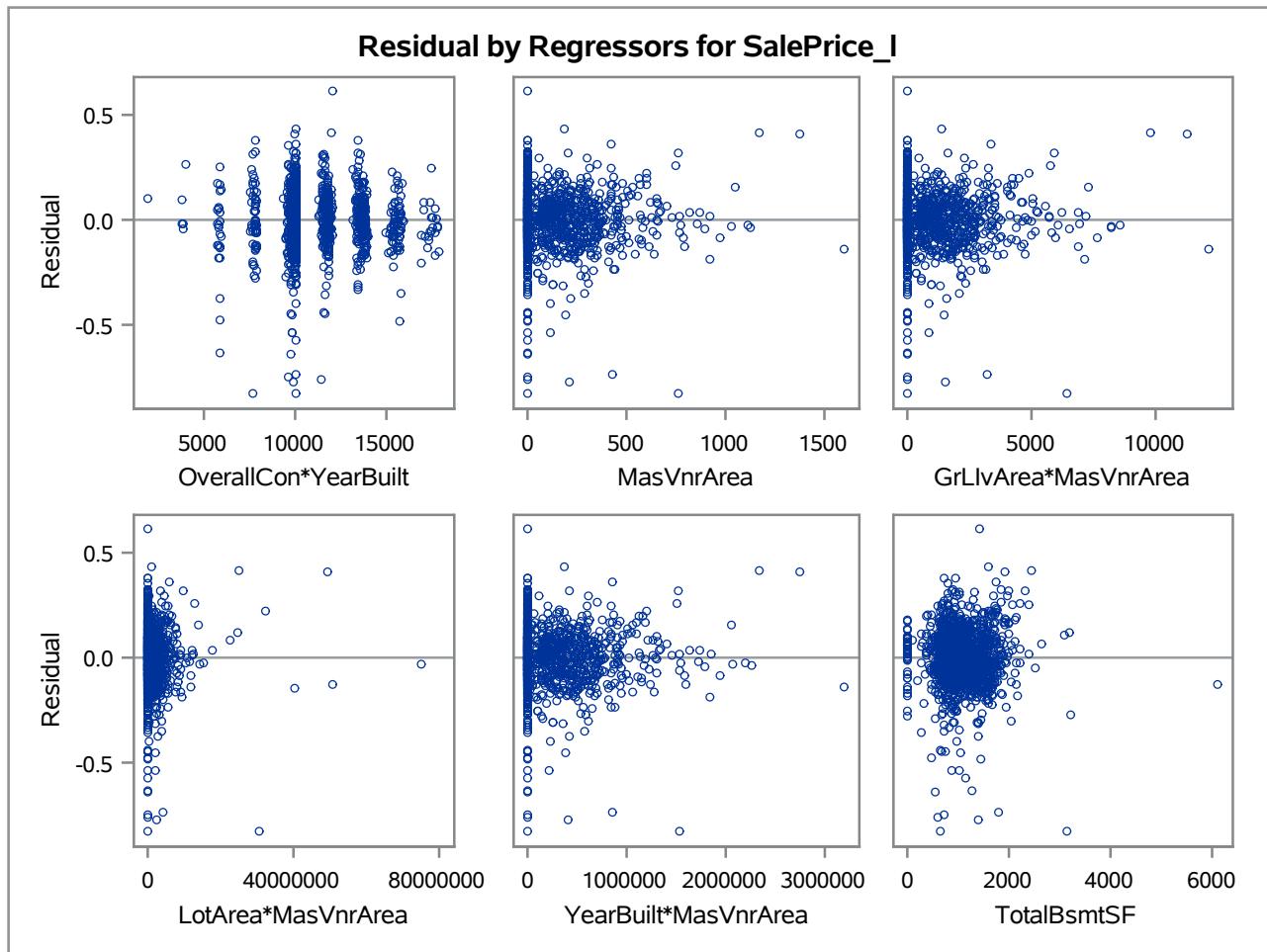


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

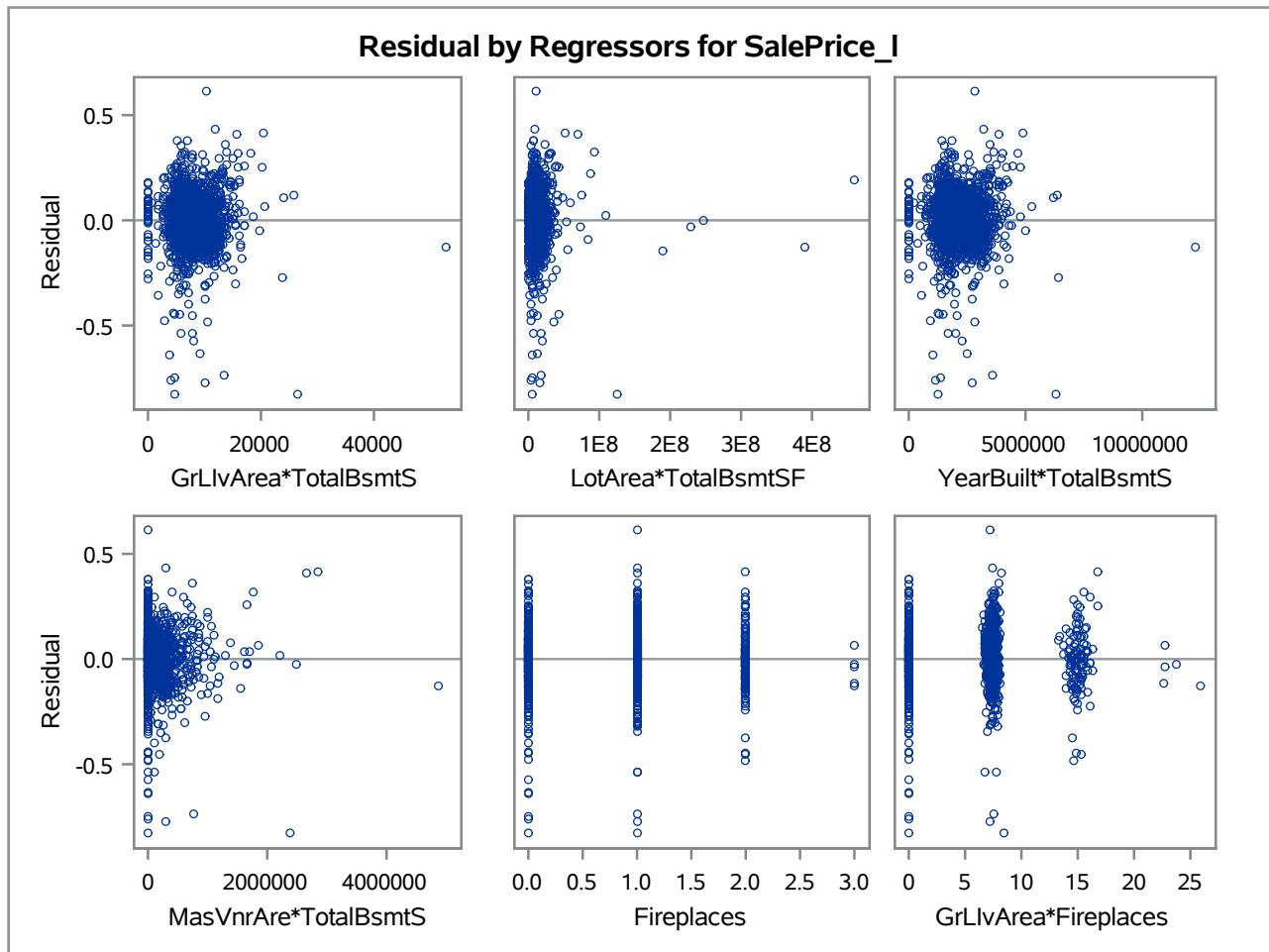


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

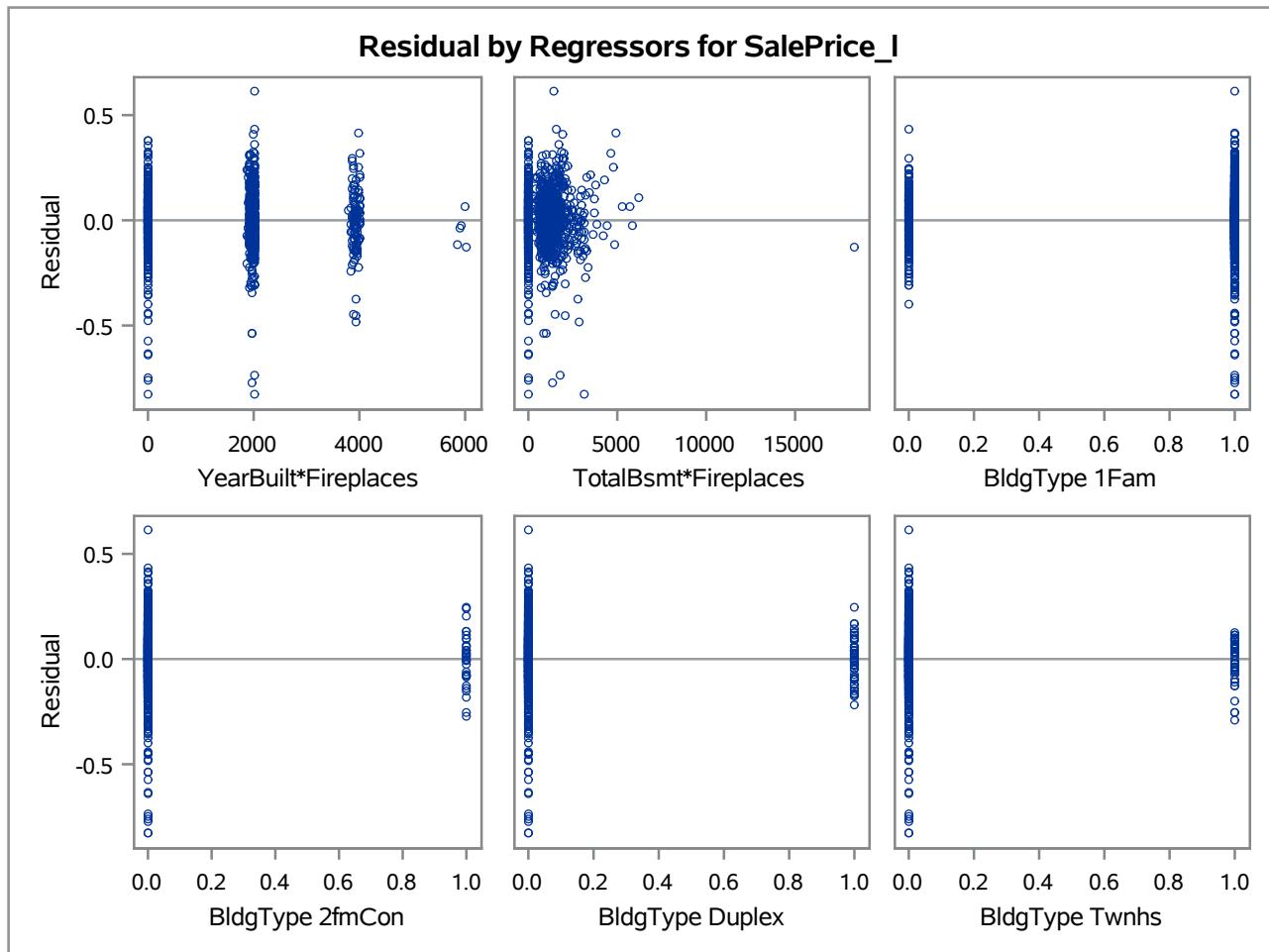


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

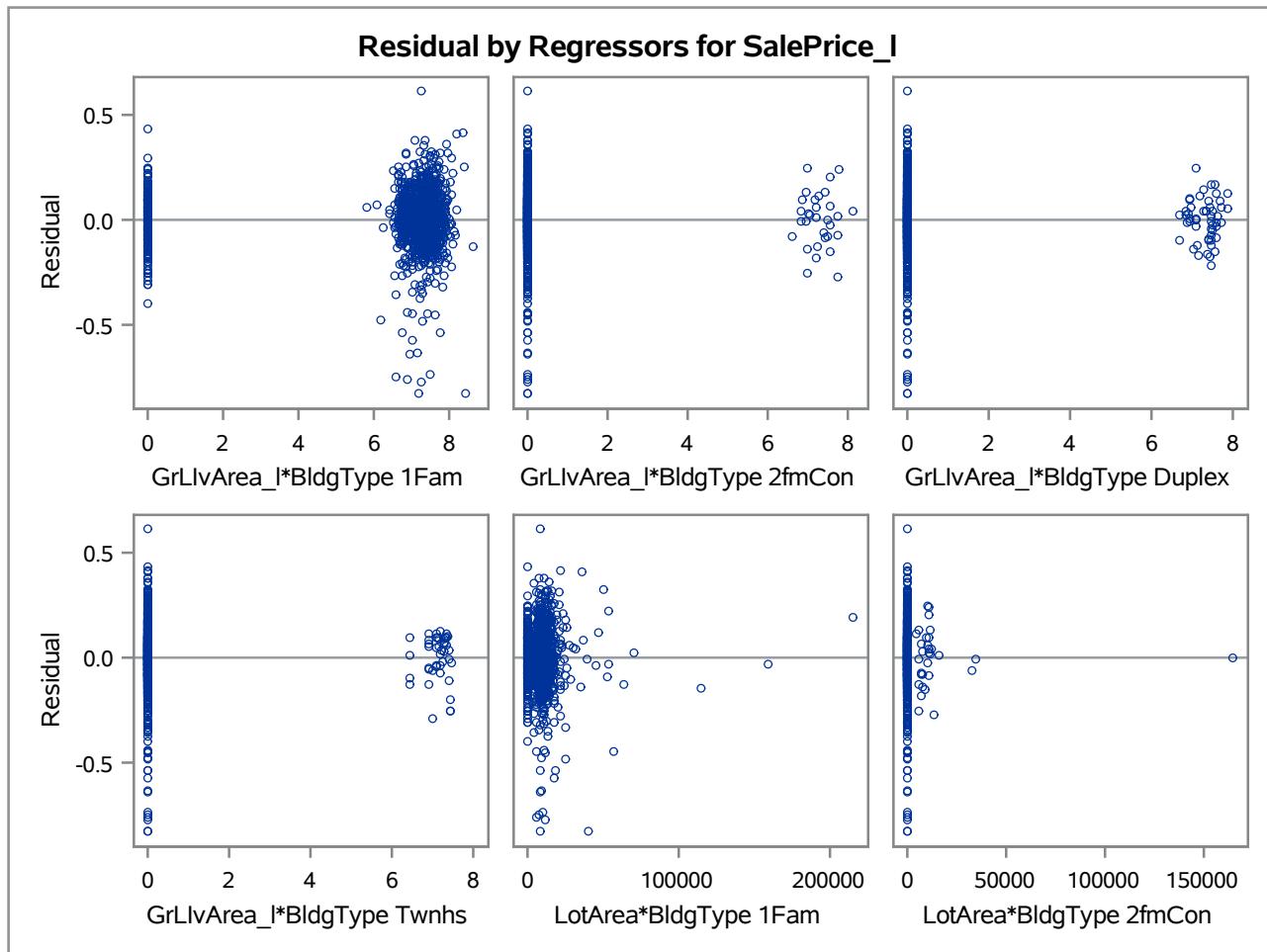


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

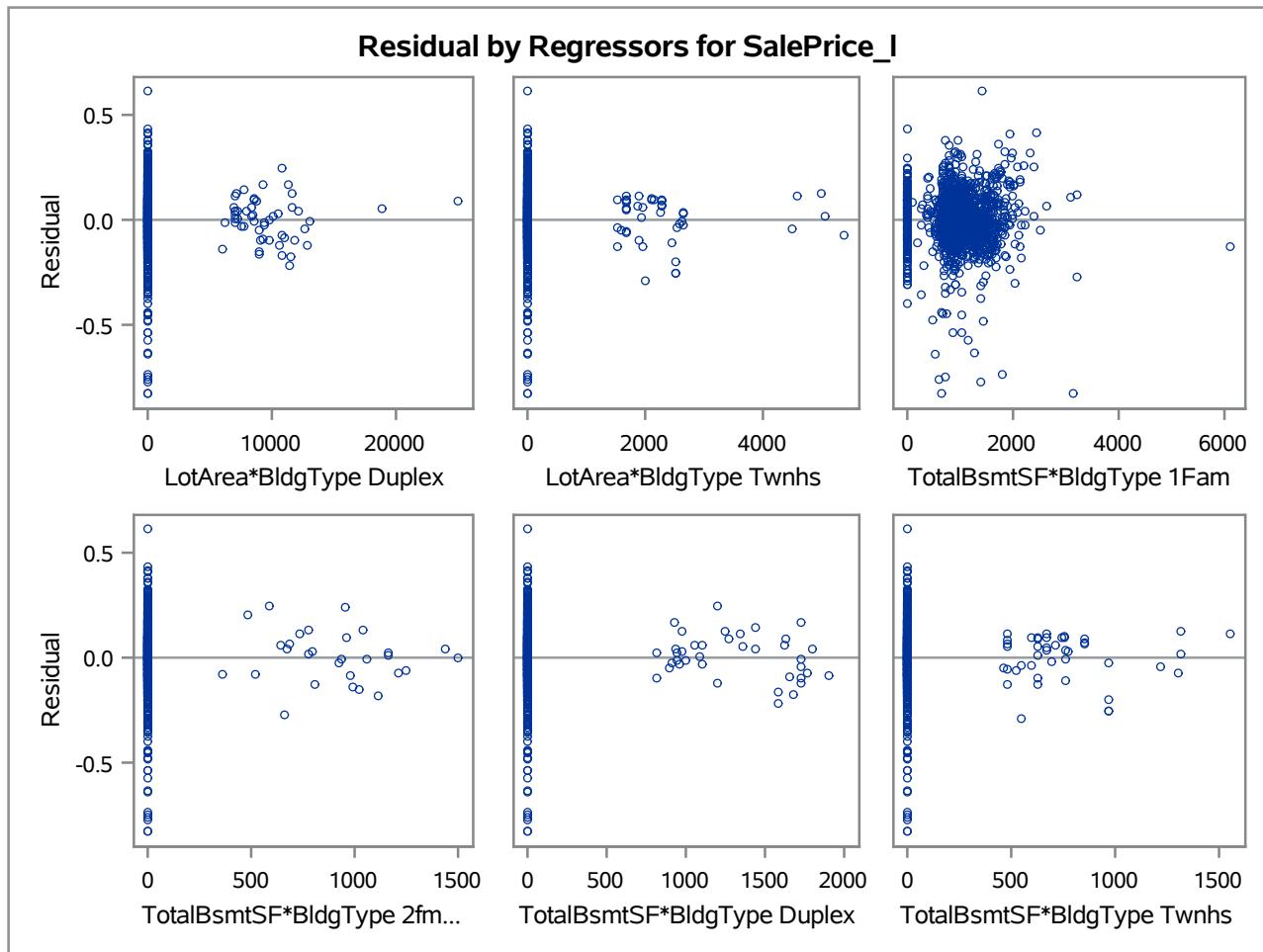


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

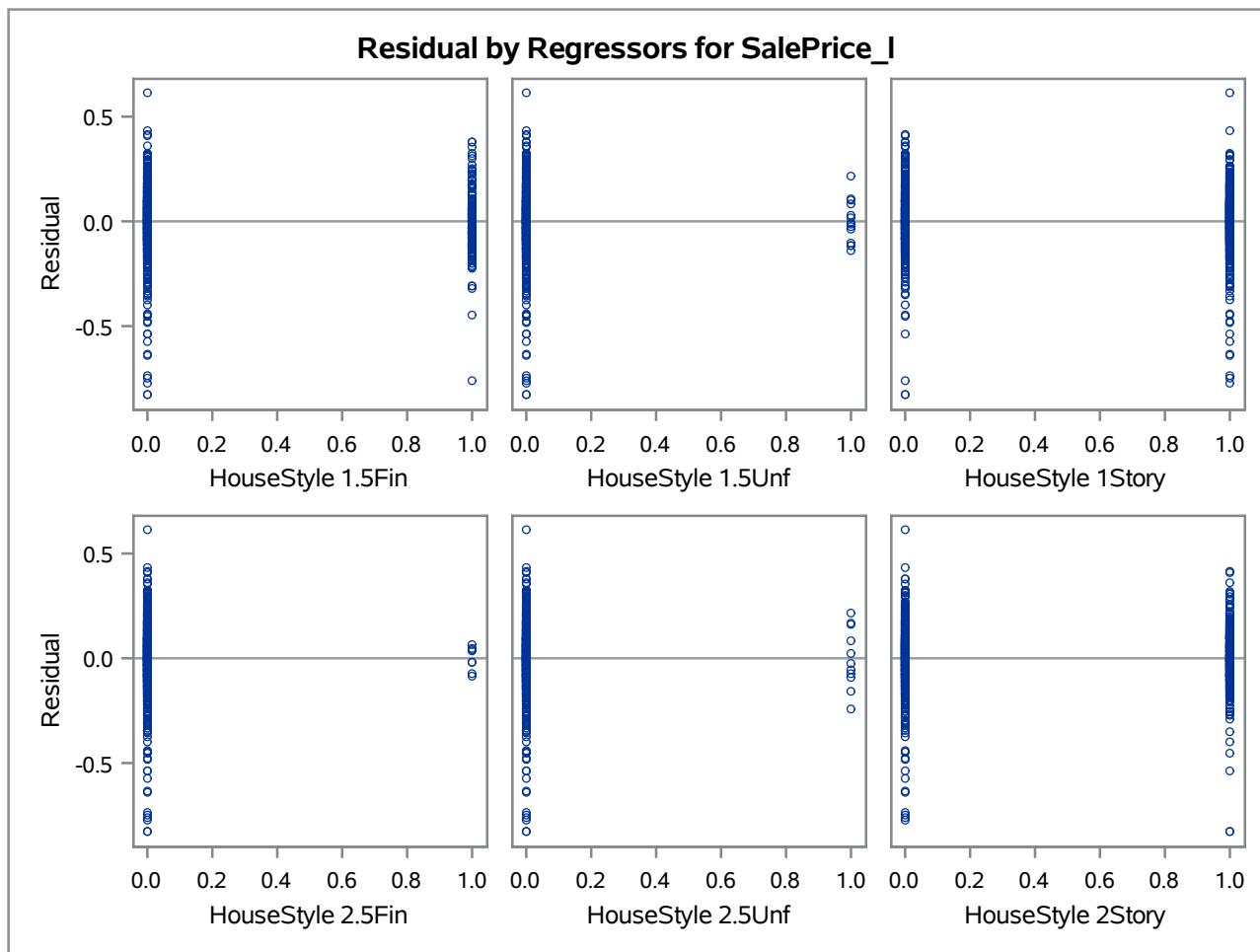


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

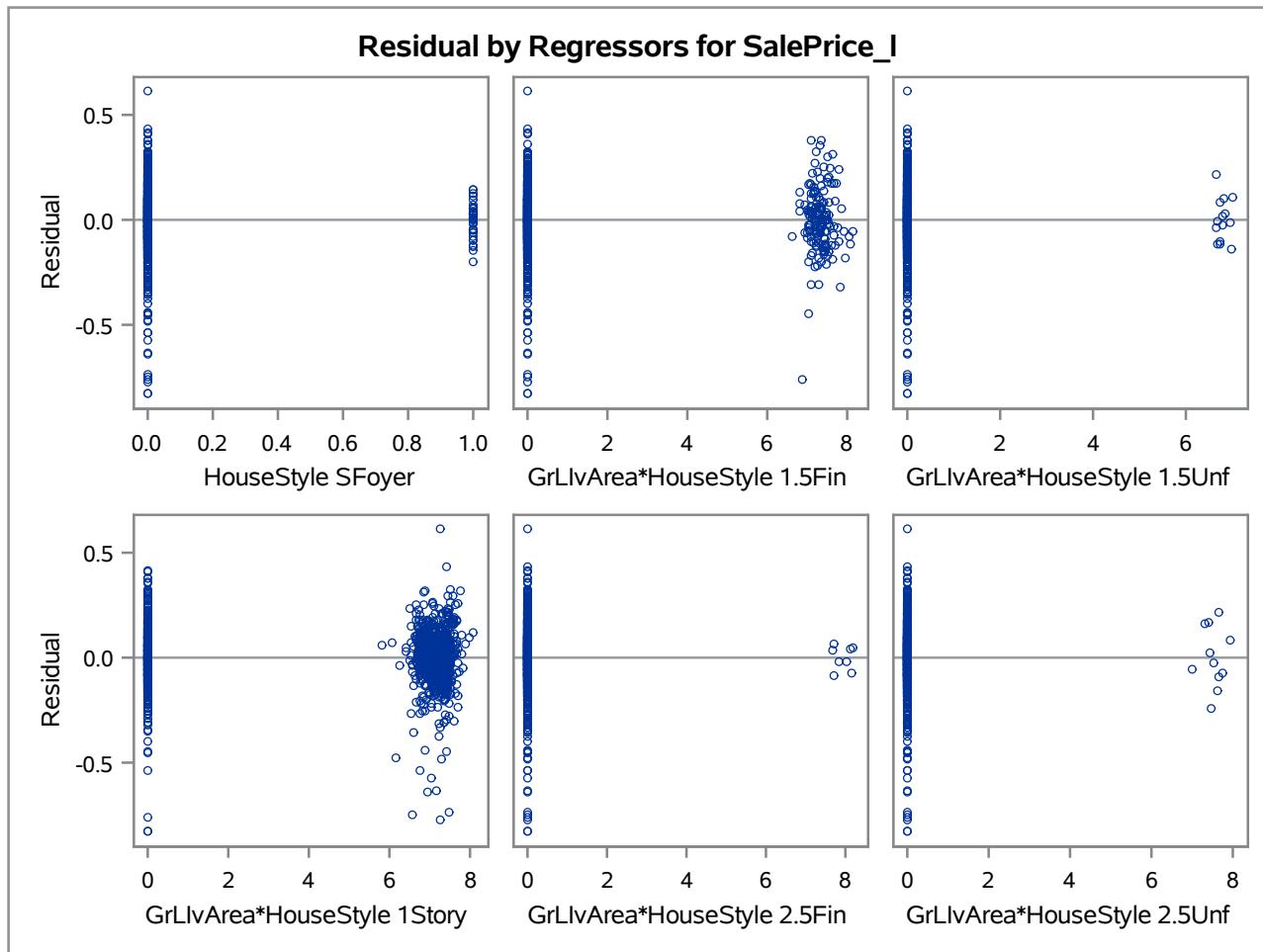


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

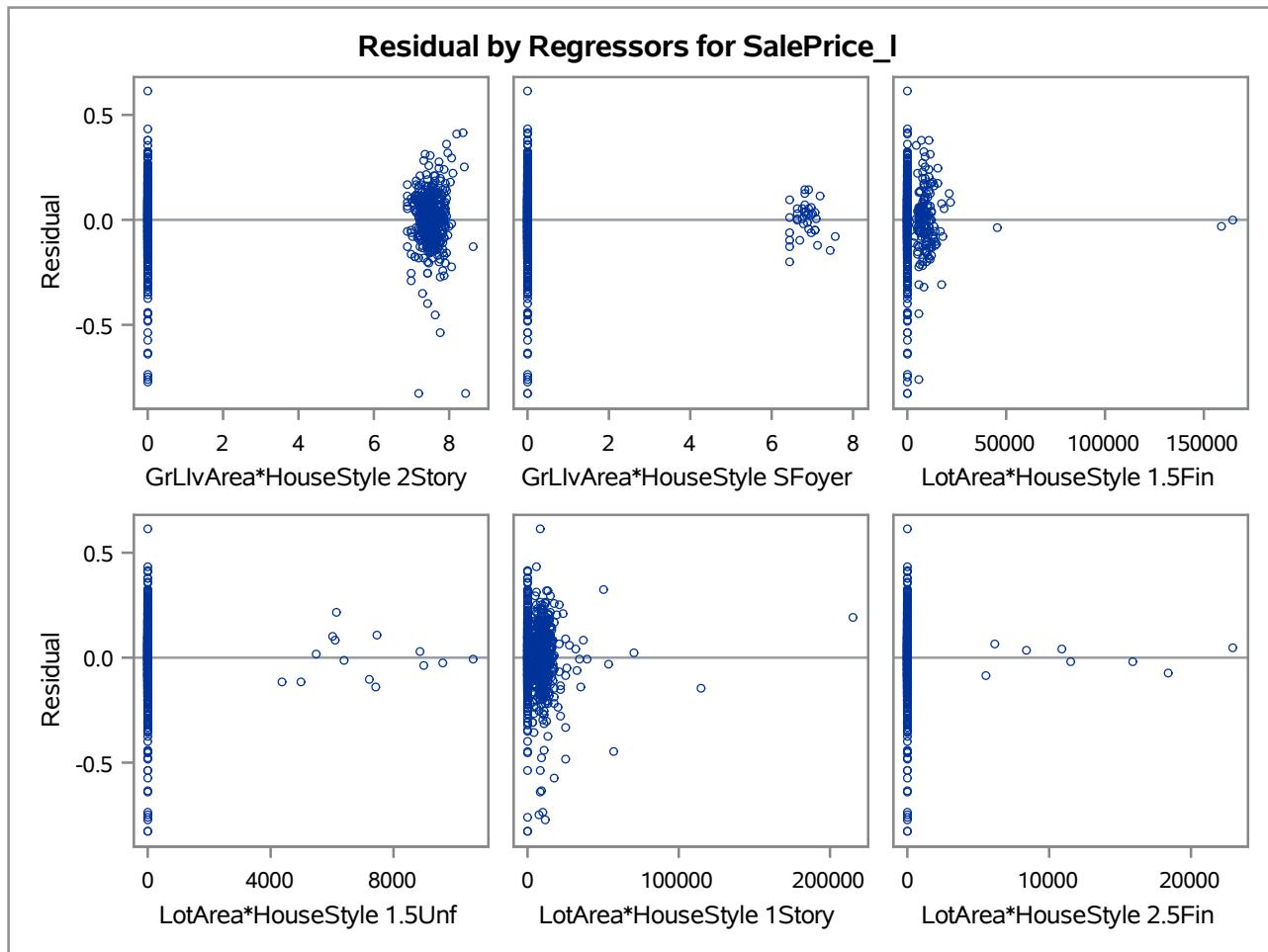


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

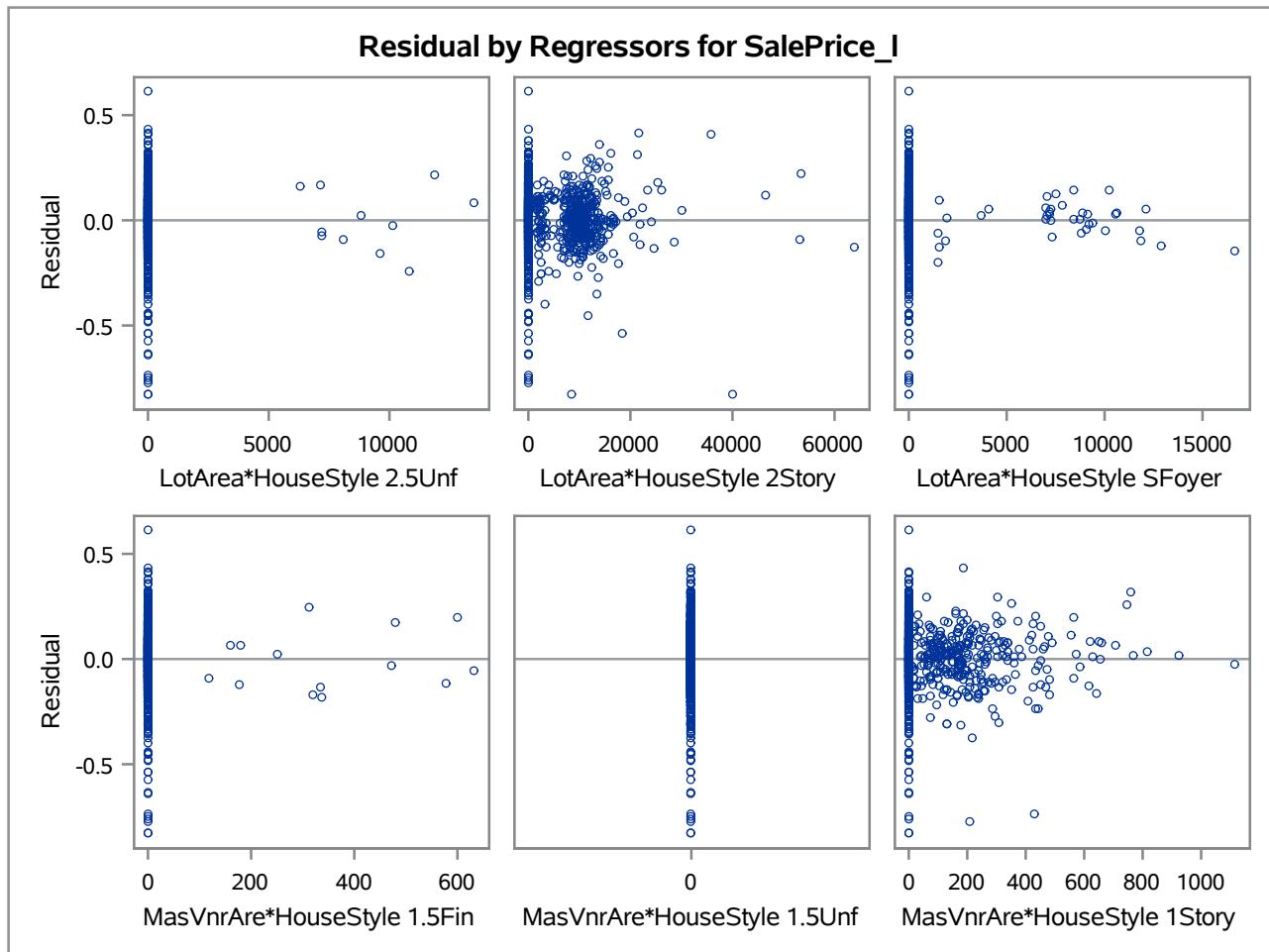


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

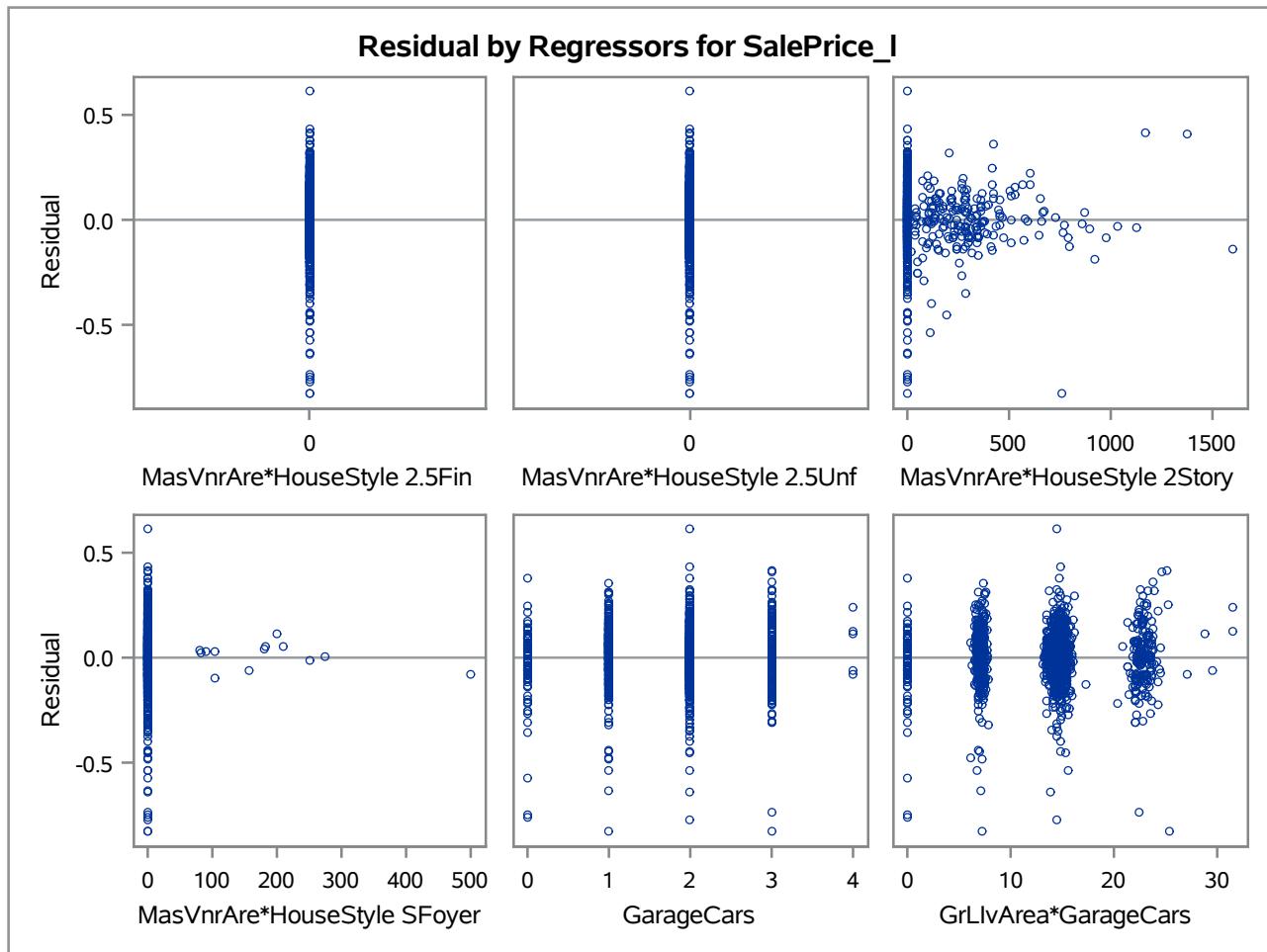


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

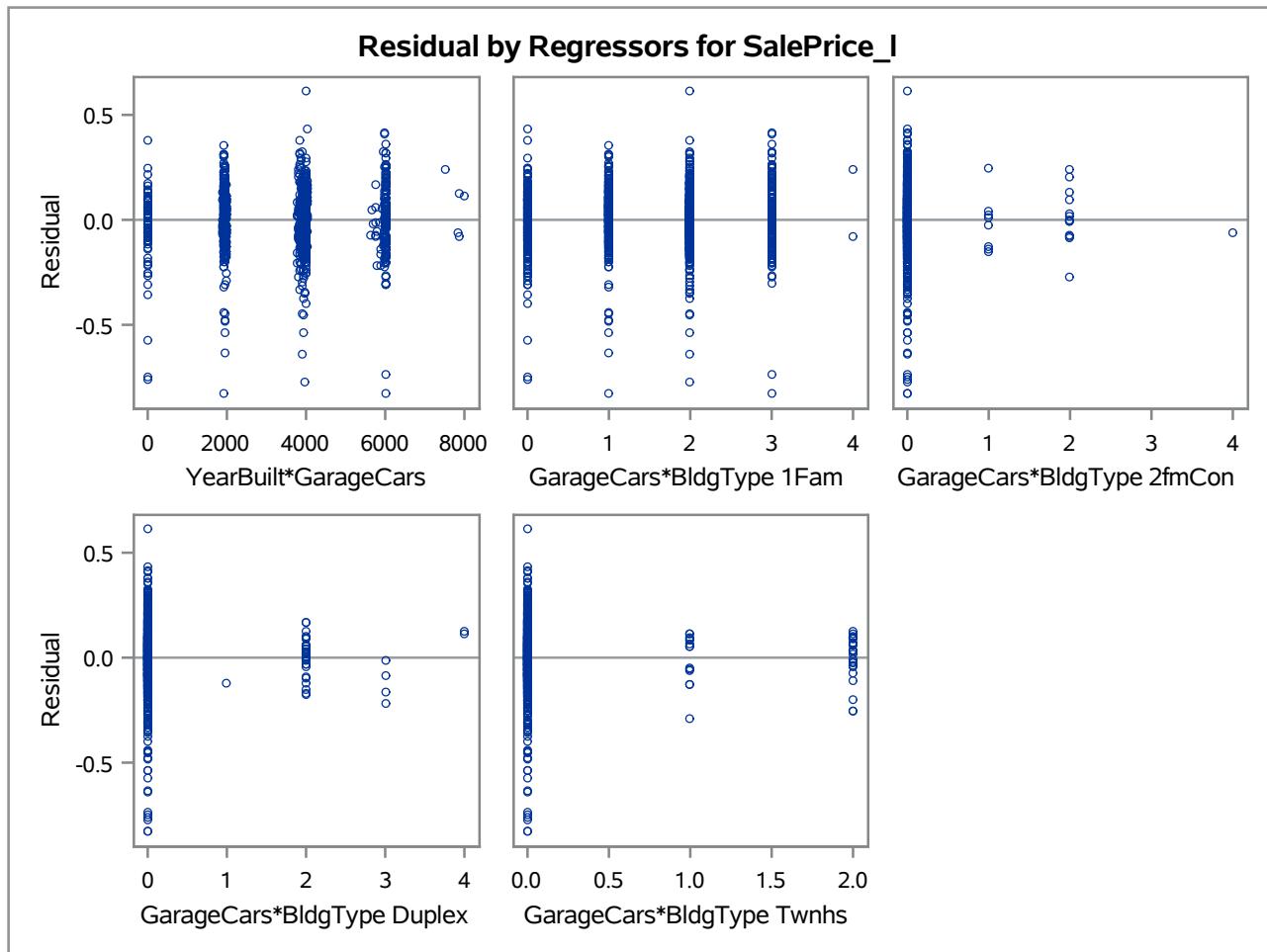


Forward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I



Backward Selection Multiple Linear Regression

The GLMSELECT Procedure

Data Set	WORK.TRAIN_6
Dependent Variable	SalePrice_I
Selection Method	Backward
Select Criterion	Significance Level
Stop Criterion	Significance Level
Choose Criterion	Cross Validation
Stay Significance Level (SLS)	0.1
Cross Validation Method	Split
Cross Validation Fold	5
Effect Hierarchy Enforced	Single

Number of Observations Read	2919
Number of Observations Used	1452

Class Level Information		
Class	Levels	Values
LotConfig	5	Corner CulDSac FR2 FR3 Inside
BldgType	5	1Fam 2fmCon Duplex Twnhs TwnhsE
HouseStyle	8	1.5Fin 1.5Unf 1Story 2.5Fin 2.5Unf 2Story SFoyer SLvl

Dimensions	
Number of Effects	79
Number of Parameters	268

Backward Selection Multiple Linear Regression

The GLMSELECT Procedure

Backward Selection Summary								
Step	Effect Removed	Number Effects In	NumberParms In	Model R-Square	PRESS	CV PRESS	F Value	Pr > F
0		79	221	0.9011	41.2719	57.3730		
1	GrLlvArea_*YearBuilt	78	220	0.9011	41.0872	57.4077	0.00	0.9857
2	GrLlvArea_!*FullBath	77	219	0.9011	40.9051	57.2367	0.00	0.9865
3	LotArea*LotConfig	76	216	0.9011	39.6817	68.4142	0.05	0.9833
4	OverallCond*BldgType	75	212	0.9010	39.1678	67.5088	0.12	0.9738
5	FullBath*Fireplaces	74	211	0.9010	39.0155	67.4571	0.00	0.9585
6	TotalBsmtS*LotConfig	73	208	0.9010	38.3485	65.9014	0.11	0.9563
7	LotConfig*HouseStyle	72	195	0.9004	37.2566	65.4030	0.60	0.8575
8	GrLlvArea_*LotConfig	71	192	0.9003	37.0472	62.2164	0.13	0.9406
9	TotalBsmt*HouseStyle	70	186	0.9001	35.3000	73.8645	0.46	0.8401
10	TotalBsmt*GarageCars	69	185	0.9001	35.0548	75.0939	0.11	0.7379
11	FullBath*LotConfig	68	182	0.9000	34.8561	70.4012	0.45	0.7203
12	OverallCo*TotalBsmtS	67	181	0.9000	34.7787	67.8926	0.19	0.6640
13	MasVnrArea*FullBath	66	180	0.9000	34.6832	69.0602	0.20	0.6542
14	GrLlvArea*MasVnrArea	65	179	0.9000	34.4953	69.6850	0.13	0.7189
15	Fireplaces*BldgType	64	175	0.8998	34.2765	68.1428	0.64	0.6334
16	GrLlvArea*TotalBsmtS	63	174	0.8998	34.0434	68.0903	0.19	0.6627
17	LotConfig*BldgType	62	166	0.8993	33.6236	68.6438	0.73	0.6626
18	OverallCo*HouseStyle	61	160	0.8989	33.5457	72.9292	0.86	0.5275
19	LotArea*YearBuilt	60	159	0.8988	33.0189	71.3666	0.58	0.4478
20	FullBath*GarageCars	59	158	0.8988	32.9694	70.6185	0.59	0.4409
21	LotArea*Fireplaces	58	157	0.8987	32.7290	70.1491	0.72	0.3959
22	GarageCars*LotConfig	57	154	0.8985	32.7757	70.1188	0.97	0.4055
23	Fireplaces*LotConfig	56	151	0.8983	32.5110	70.1198	0.79	0.4981
24	Fireplace*HouseStyle	55	144	0.8977	46.1281	61.9136	1.11	0.3541
25	LotArea*BldgType	54	140	0.8974	45.5977	60.6882	1.10	0.3559
26	OverallCond*FullBath	53	139	0.8973	43.4234	61.3787	0.94	0.3317
27	GrLlvArea*GarageCars	52	138	0.8972	42.2625	56.0028	1.00	0.3165
28	GarageCar*HouseStyle	51	131	0.8967	33.9466	53.2150	1.05	0.3943
29	Fireplace*GarageCars	50	130	0.8966	33.7942	53.8933	0.83	0.3630
30	OverallCon*LotConfig	49	126	0.8962	49.6725	54.5313	1.30	0.2688
31	YearBuilt*LotConfig	48	122	0.8959	33.3072	37.8825	0.99	0.4101
32	LotArea*OverallCond	47	121	0.8958	33.2764	37.5622	0.73	0.3937

* Optimal Value of Criterion

Backward Selection Multiple Linear Regression

The GLMSELECT Procedure

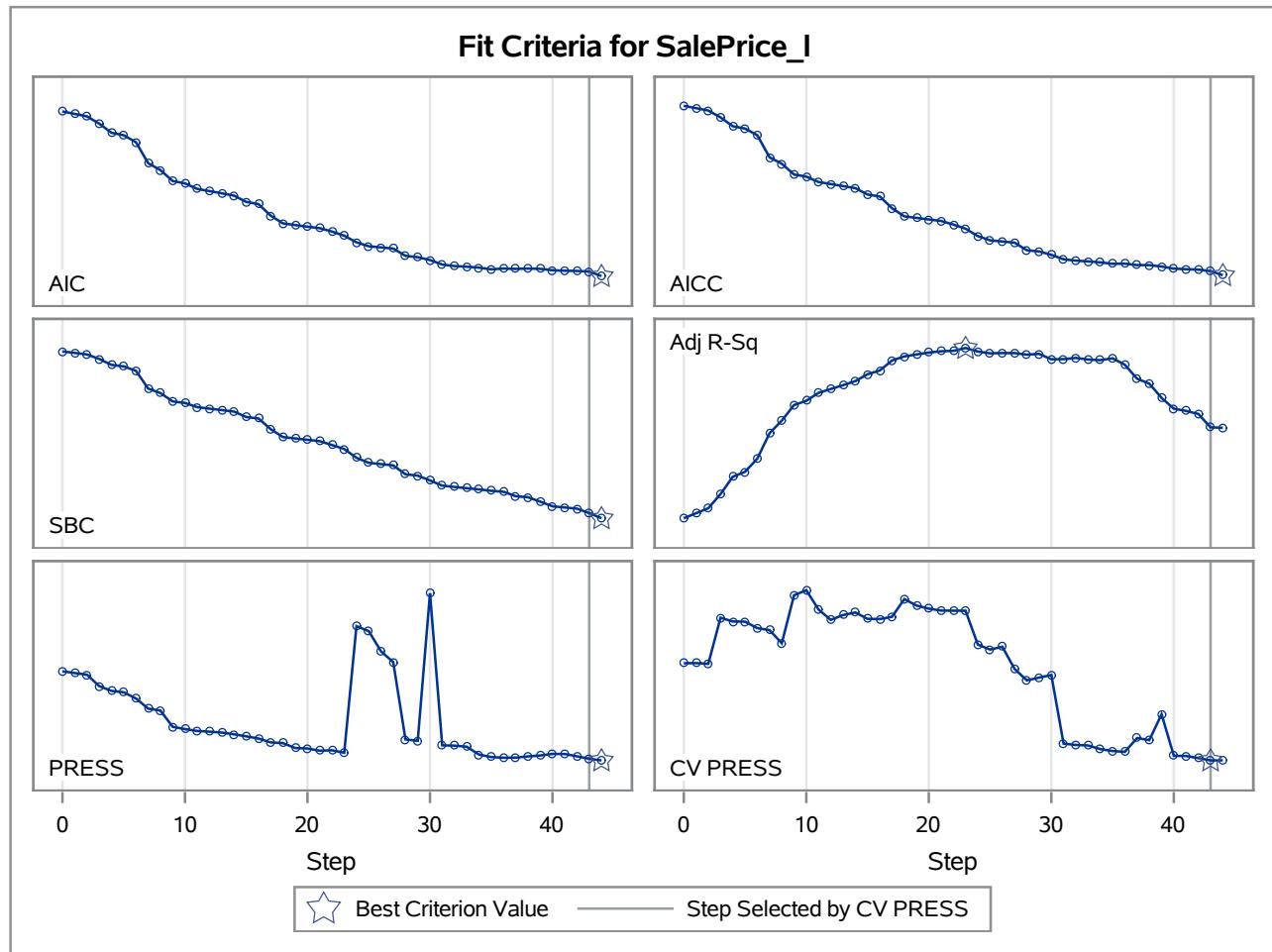
Backward Selection Summary									
Step	Effect Removed	Number Effects In	NumberParms In	Model R-Square	PRESS	CV PRESS	F Value	Pr > F	
33	GrLlvArea*Fireplaces	46	120	0.8957	33.1586	37.4320	1.35	0.2449	
34	GrLlvArea_I*LotArea	45	119	0.8956	32.3119	36.5395	1.14	0.2850	
35	LotArea*FullBath	44	118	0.8956	32.0480	36.0833	0.58	0.4452	
36	OverallCo*MasVnrArea	43	117	0.8954	31.9735	35.8819	2.43	0.1190	
37	MasVnrArea*BldgType	42	113	0.8948	31.9853	39.2341	1.78	0.1309	
38	OverallCo*GarageCars	41	112	0.8947	32.1152	38.7287	2.10	0.1474	
39	FullBath*BldgType	40	108	0.8941	32.2151	44.9981	1.79	0.1281	
40	YearBuilt*BldgType	39	104	0.8936	32.3852	34.9297	1.60	0.1718	
41	LotArea*MasVnrArea	38	103	0.8935	32.3756	34.8695	1.50	0.2205	
42	LotArea*GarageCars	37	102	0.8933	32.1240	34.3657	1.67	0.1965	
43	MasVnrArea*LotConfig	36	98	0.8928	31.8633	33.7996*	1.75	0.1365	
44	LotConfig	35	94	0.8925	31.6838*	33.8271	1.02	0.3950	
* Optimal Value of Criterion									

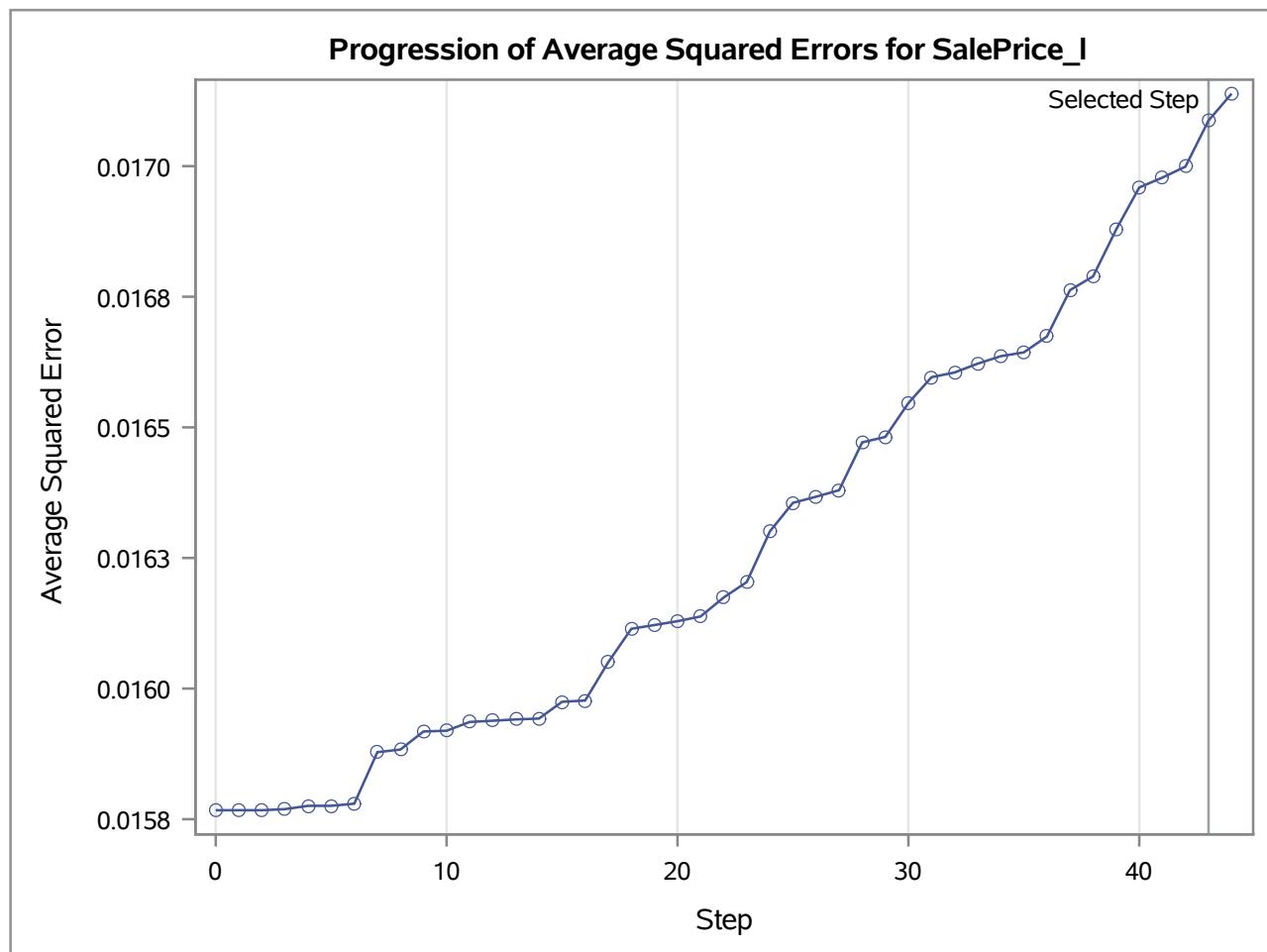
Selection stopped because the next candidate for removal has SLS < 0.1.

Stop Details					
Candidate For	Effect	Candidate Significance		Compare Significance	
Removal	MasVnrAre*Fireplaces	0.0998	<	0.1000	(SLS)

Backward Selection Multiple Linear Regression

The GLMSELECT Procedure



Backward Selection Multiple Linear Regression**The GLMSELECT Procedure**

Backward Selection Multiple Linear Regression

The GLMSELECT Procedure Selected Model

The selected model, based on Cross Validation, is the model at Step 43.

Effects:	Intercept GrLlvArea_I LotArea OverallCond GrLlvArea*OverallCon YearBuilt OverallCon*YearBuilt MasVnrArea YearBuilt*MasVnrArea TotalBsmtSF LotArea*TotalBsmtSF YearBuilt*TotalBsmtS MasVnrAre*TotalBsmtS FullBath YearBuilt*FullBath TotalBsmtSF*FullBath Fireplaces OverallCo*Fireplaces YearBuilt*Fireplaces MasVnrAre*Fireplaces TotalBsmt*Fireplaces LotConfig BldgType GrLlvArea_I*BldgType TotalBsmtSF*BldgType HouseStyle GrLlvArea*HouseStyle LotArea*HouseStyle YearBuilt*HouseStyle MasVnrAre*HouseStyle FullBath*HouseStyle BldgType*HouseStyle GarageCars YearBuilt*GarageCars MasVnrAre*GarageCars GarageCars*BldgType
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Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Value
Model	97	206.61164	2.13002	116.24
Error	1354	24.81057	0.01832	
Corrected Total	1451	231.42221		

Root MSE	0.13537
Dependent Mean	12.02239
R-Square	0.8928
Adj R-Sq	0.8851
AIC	-4258.80878
AICC	-4244.16381
PRESS	31.86333
SBC	-5195.30046
CV PRESS	33.79961

Cross Validation Details			
Index	Observations		CV PRESS
	Fitted	Left Out	
1	1161	291	8.1053
2	1161	291	6.5819
3	1162	290	6.2140
4	1162	290	5.9008
5	1162	290	6.9976
Total			33.7996

Backward Selection Multiple Linear Regression

The GLMSELECT Procedure Selected Model

Parameter Estimates									
Parameter	DF	Estimate	Standard Error	t Value	Cross Validation Estimates				
					1	2	3	4	5
Intercept	1	-2.984879	4.285222	-0.70	-2.83E+00	-1.58E+00	-2.88E+00	-3.44E+00	-1.94E+00
GrLlvArea_I	1	0.260225	0.193213	1.35	3.92E-01	2.20E-01	2.64E-01	2.08E-01	-2.60E-02
LotArea	1	0.000022503	0.000006246	3.60	1.01E-05	2.30E-05	2.80E-05	2.73E-05	2.23E-05
OverallCond	1	1.657791	0.297744	5.57	1.83E+00	1.58E+00	1.45E+00	1.67E+00	1.73E+00
GrLlvArea*OverallCon	1	-0.034408	0.011766	-2.92	-4.09E-02	-3.51E-02	-2.84E-02	-3.02E-02	-3.58E-02
YearBuilt	1	0.006106	0.001950	3.13	5.59E-03	5.52E-03	6.04E-03	6.50E-03	6.54E-03
OverallCon*YearBuilt	1	-0.000688	0.000143	-4.81	-7.57E-04	-6.45E-04	-6.02E-04	-7.06E-04	-7.23E-04
MasVnrArea	1	-0.013385	0.003067	-4.36	-1.45E-02	-1.40E-02	-1.14E-02	-1.42E-02	-1.29E-02
YearBuilt*MasVnrArea	1	0.000006774	0.000001577	4.30	7.34E-06	7.04E-06	5.73E-06	7.31E-06	6.50E-06
TotalBsmtSF	1	-0.002186	0.001213	-1.80	-2.32E-03	-1.76E-03	-1.38E-03	-3.47E-03	-2.31E-03
LotArea*TotalBsmtSF	1	-7.944363E-9	8.870314E-10	-8.96	-6.65E-09	-7.64E-09	-8.88E-09	-8.74E-09	-7.14E-09
YearBuilt*TotalBsmtS	1	0.000001455	0.000000613	2.37	1.52E-06	1.29E-06	9.94E-07	2.10E-06	1.65E-06
MasVnrAre*TotalBsmtS	1	-0.000000285	6.0450845E-8	-4.72	-2.05E-07	-2.93E-07	-1.23E-07	-3.90E-07	-3.15E-07
FullBath	1	-1.771438	0.764655	-2.32	-1.81E+00	-2.29E+00	-2.00E+00	-2.18E+00	-9.24E-01
YearBuilt*FullBath	1	0.000924	0.000391	2.37	9.58E-04	1.20E-03	1.02E-03	1.13E-03	4.93E-04
TotalBsmtSF*FullBath	1	-0.000047523	0.000022595	-2.10	-1.10E-04	-7.11E-05	7.48E-06	-4.48E-05	-5.31E-05
Fireplaces	1	2.103083	0.566151	3.71	2.21E+00	1.85E+00	1.92E+00	2.66E+00	1.75E+00
OverallCo*Fireplaces	1	0.012358	0.006455	1.91	1.78E-02	1.58E-02	7.60E-03	4.59E-03	1.73E-02
YearBuilt*Fireplaces	1	-0.001113	0.000284	-3.92	-1.20E-03	-9.92E-04	-9.89E-04	-1.38E-03	-9.46E-04
MasVnrAre*Fireplaces	1	0.000071770	0.000043676	1.64	8.24E-05	5.24E-05	4.72E-05	8.72E-05	8.33E-05
TotalBsmt*Fireplaces	1	0.000055355	0.000016919	3.27	8.95E-05	5.89E-05	2.36E-05	7.93E-05	5.14E-05
LotConfig	Corner	1	0.009003	0.009818	0.92	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LotConfig	CulDSac	1	0.021005	0.015791	1.33	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LotConfig	FR2	1	-0.023822	0.020814	-1.14	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LotConfig	FR3	1	0.012537	0.068784	0.18	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BldgType	1Fam	1	-2.130838	1.040649	-2.05	-1.86E+00	-2.20E+00	-2.05E+00	-2.25E+00
BldgType	2fmCon	1	-3.098019	1.401079	-2.21	-3.56E+00	-3.86E+00	-1.88E+00	-3.43E+00
BldgType	Duplex	1	0.186624	1.348024	0.14	9.90E-01	3.14E-01	1.22E+00	-4.69E-01
BldgType	Twnhs	1	-1.700194	2.253695	-0.75	4.28E-01	-1.83E+00	-4.47E+00	-1.50E+00
GrLlvArea_I*BldgType 1Fam		1	0.313048	0.160866	1.95	2.84E-01	3.18E-01	2.97E-01	3.26E-01
GrLlvArea_I*BldgType 2fmCon		1	0.494130	0.212487	2.33	4.97E-01	6.02E-01	3.25E-01	5.38E-01
GrLlvArea_I*BldgType Duplex		1	-0.005693	0.202941	-0.03	-8.70E-02	-2.83E-02	-1.49E-01	8.50E-02
GrLlvArea_I*BldgType Twnhs		1	0.273887	0.350222	0.78	-4.77E-02	2.91E-01	7.16E-01	2.38E-01

Backward Selection Multiple Linear Regression

The GLMSELECT Procedure Selected Model

Parameter Estimates									
Parameter	DF	Estimate	Standard Error	t Value	Cross Validation Estimates				
					1	2	3	4	5
TotalBsmtSF*BldgType 1Fam	1	-0.000340	0.000143	-2.37	-2.81E-04	-3.86E-04	-3.21E-04	-3.40E-04	-6.11E-04
TotalBsmtSF*BldgType 2fmCon	1	-0.000263	0.000186	-1.41	-1.65E-04	-3.36E-04	-3.60E-04	-2.61E-04	-3.90E-04
TotalBsmtSF*BldgType Duplex	1	-0.000346	0.000148	-2.34	-2.19E-04	-3.84E-04	-3.50E-04	-3.49E-04	-5.98E-04
TotalBsmtSF*BldgType Twnhs	1	-0.000953	0.000381	-2.50	-4.57E-04	-9.84E-04	-1.42E-03	-9.79E-04	-1.36E-03
HouseStyle 1.5Fin	1	1.861824	3.650504	0.51	-1.08E+00	2.20E+00	2.16E+00	2.41E+00	2.67E+00
HouseStyle 1.5Unf	1	5.782962	7.938453	0.73	3.63E+00	5.94E+00	9.90E+00	5.34E+00	6.16E+00
HouseStyle 1Story	1	-0.218664	3.612767	-0.06	-2.24E+00	-1.77E+00	-1.38E-01	2.34E+00	3.40E-01
HouseStyle 2.5Fin	1	7.000127	24.150334	0.29	2.30E+00	-9.54E-01	9.34E+00	6.09E+00	3.25E+00
HouseStyle 2.5Unf	1	-7.651068	10.026715	-0.76	-9.20E+00	9.46E+00	-4.62E+00	-5.51E+00	-3.11E+01
HouseStyle 2Story	1	1.464063	3.551814	0.41	-3.44E-01	-2.71E-01	2.26E+00	3.35E+00	2.02E+00
HouseStyle S Foyer	1	-1.022831	6.069505	-0.17	-3.91E+00	-3.92E+00	3.27E-01	8.42E-02	6.89E-01
GrLlvArea*HouseStyle 1.5Fin	1	0.268046	0.113478	2.36	2.25E-01	2.40E-01	3.69E-01	2.72E-01	2.34E-01
GrLlvArea*HouseStyle 1.5Unf	1	0.096478	0.378304	0.26	6.40E-02	-1.26E-01	-7.95E-02	4.80E-01	5.69E-02
GrLlvArea*HouseStyle 1Story	1	0.054159	0.098857	0.55	-2.23E-02	8.66E-02	8.62E-02	5.18E-02	9.92E-02
GrLlvArea*HouseStyle 2.5Fin	1	-0.524007	1.778963	-0.29	-2.33E-01	8.54E-02	-6.93E-01	-6.82E-01	-2.28E-01
GrLlvArea*HouseStyle 2.5Unf	1	-0.314131	0.344259	-0.91	-3.65E-01	-1.92E+00	-2.63E-01	-2.07E-01	6.08E-02
GrLlvArea*HouseStyle 2Story	1	0.219238	0.103976	2.11	1.70E-01	2.16E-01	2.28E-01	2.69E-01	2.43E-01
GrLlvArea*HouseStyle S Foyer	1	-0.058463	0.198296	-0.29	-3.36E-01	1.40E-01	1.12E-01	-7.46E-02	-1.43E-01
LotArea*HouseStyle 1.5Fin	1	-0.000010346	0.000006239	-1.66	-2.84E-07	-1.14E-05	-1.39E-05	-1.38E-05	-1.13E-05
LotArea*HouseStyle 1.5Unf	1	0.000019287	0.000021830	0.88	3.41E-05	1.97E-05	3.42E-06	2.05E-05	1.49E-05
LotArea*HouseStyle 1Story	1	-0.000004568	0.000006257	-0.73	5.61E-06	-5.61E-06	-1.01E-05	-7.24E-06	-6.03E-06
LotArea*HouseStyle 2.5Fin	1	0.000040206	0.000048967	0.82	2.92E-05	2.22E-05	4.37E-05	4.68E-05	3.53E-05
LotArea*HouseStyle 2.5Unf	1	0.000068668	0.000028902	2.38	7.92E-05	1.63E-04	5.62E-05	4.88E-05	4.10E-05
LotArea*HouseStyle 2Story	1	-0.000009933	0.000006327	-1.57	2.79E-06	-1.20E-05	-1.29E-05	-1.37E-05	-1.16E-05
LotArea*HouseStyle S Foyer	1	-0.000021062	0.000015417	-1.37	2.91E-06	-3.78E-05	-2.60E-05	-2.60E-05	-1.47E-05
YearBuilt*HouseStyle 1.5Fin	1	-0.001893	0.001727	-1.10	-4.02E-04	-1.93E-03	-2.38E-03	-2.25E-03	-2.17E-03
YearBuilt*HouseStyle 1.5Unf	1	-0.003600	0.003578	-1.01	-2.20E-03	-2.88E-03	-4.98E-03	-4.74E-03	-3.42E-03
YearBuilt*HouseStyle 1Story	1	-0.000169	0.001674	-0.10	1.09E-03	4.69E-04	-2.68E-04	-1.42E-03	-6.91E-04
YearBuilt*HouseStyle 2.5Fin	1	-0.001915	0.006256	-0.31	-5.86E-04	-2.68E-04	-2.29E-03	-4.66E-04	-1.24E-03
YearBuilt*HouseStyle 2.5Unf	1	0.004563	0.004733	0.96	5.71E-03	1.19E-03	2.95E-03	3.16E-03	1.53E-02
YearBuilt*HouseStyle 2Story	1	-0.001592	0.001634	-0.97	-5.16E-04	-6.95E-04	-2.01E-03	-2.70E-03	-1.98E-03
YearBuilt*HouseStyle S Foyer	1	0.000629	0.003014	0.21	2.96E-03	1.37E-03	-5.41E-04	1.36E-04	-7.40E-05
MasVnrAre*HouseStyle 1.5Fin	1	0.000298	0.000155	1.93	2.58E-04	4.20E-04	2.40E-04	2.29E-04	3.21E-04

Backward Selection Multiple Linear Regression

The GLMSELECT Procedure Selected Model

Parameter Estimates									
Parameter	DF	Estimate	Standard Error	t Value	Cross Validation Estimates				
					1	2	3	4	5
MasVnrAre*HouseStyle 1.5Unf	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MasVnrAre*HouseStyle 1Story	1	0.000118	0.000112	1.05	-2.45E-05	1.10E-04	6.37E-05	2.00E-04	1.07E-04
MasVnrAre*HouseStyle 2.5Fin	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MasVnrAre*HouseStyle 2.5Unf	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MasVnrAre*HouseStyle 2Story	1	-0.000041799	0.000109	-0.38	-1.43E-04	-9.15E-06	-6.99E-06	-9.79E-05	-2.11E-05
MasVnrAre*HouseStyle SFoyer	1	0.000122	0.000311	0.39	9.45E-05	2.83E-04	2.60E-05	1.30E-04	2.82E-04
FullBath*HouseStyle 1.5Fin	1	-0.011203	0.052087	-0.22	7.97E-03	-2.36E-04	-3.03E-02	7.95E-03	-1.47E-03
FullBath*HouseStyle 1.5Unf	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FullBath*HouseStyle 1Story	1	-0.026978	0.045926	-0.59	2.22E-02	-2.35E-02	-6.32E-02	-4.40E-02	-1.12E-02
FullBath*HouseStyle 2.5Fin	1	0.036743	0.134027	0.27	1.83E-01	2.98E-02	1.89E-02	-1.28E-01	2.37E-02
FullBath*HouseStyle 2.5Unf	1	0.265618	0.101000	2.63	3.05E-01	7.37E-01	2.24E-01	2.85E-01	3.37E-01
FullBath*HouseStyle 2Story	1	0.043424	0.047320	0.92	3.93E-02	2.75E-02	4.31E-02	4.02E-02	7.77E-02
FullBath*HouseStyle SFoyer	1	-0.011798	0.068823	-0.17	3.25E-02	2.43E-02	-2.90E-02	-1.55E-02	-3.18E-02
BldgType*HouseStyle 1Fam 1.5Fin	1	-0.054274	0.178965	-0.30	1.52E-01	-9.94E-02	-7.92E-02	1.02E-01	-6.91E-02
BldgType*HouseStyle 1Fam 1.5Unf	1	0.417710	0.220012	1.90	-8.24E-02	3.52E-01	3.47E-01	4.61E-01	0.00E+00
BldgType*HouseStyle 1Fam 1Story	1	0.195763	0.145945	1.34	1.25E-01	2.72E-01	2.05E-01	1.64E-01	3.42E-01
BldgType*HouseStyle 1Fam 2.5Fin	1	0.371113	0.562915	0.66	0.00E+00	6.10E-01	9.65E-02	0.00E+00	6.18E-01
BldgType*HouseStyle 1Fam 2.5Unf	1	0.329042	0.202543	1.62	-1.72E-01	0.00E+00	2.23E-01	2.73E-01	6.52E-01
BldgType*HouseStyle 1Fam 2Story	1	0.082777	0.125404	0.66	2.45E-02	1.48E-01	7.42E-02	5.62E-02	5.80E-02
BldgType*HouseStyle 1Fam SFoyer	1	0.378674	0.173342	2.18	3.13E-01	5.69E-01	2.61E-01	3.92E-01	5.88E-01
BldgType*HouseStyle 2fmCon 1.5Fin	1	-0.299296	0.230936	-1.30	4.95E-01	-3.90E-01	-2.68E-01	-1.69E-01	-3.47E-01
BldgType*HouseStyle 2fmCon 1.5Unf	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BldgType*HouseStyle 2fmCon 1Story	1	0.017974	0.220712	0.08	4.61E-01	8.94E-02	8.04E-02	-5.29E-02	1.64E-01
BldgType*HouseStyle 2fmCon 2.5Fin	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BldgType*HouseStyle 2fmCon 2.5Unf	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BldgType*HouseStyle 2fmCon 2Story	1	-0.396124	0.204639	-1.94	0.00E+00	-3.13E-01	-2.87E-01	-4.63E-01	-5.00E-01
BldgType*HouseStyle 2fmCon SFoyer	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BldgType*HouseStyle Duplex 1.5Fin	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BldgType*HouseStyle Duplex 1.5Unf	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BldgType*HouseStyle Duplex 1Story	1	0.200528	0.203222	0.99	-1.62E-01	2.87E-01	2.38E-01	1.45E-01	3.40E-01
BldgType*HouseStyle Duplex 2.5Fin	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BldgType*HouseStyle Duplex 2.5Unf	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BldgType*HouseStyle Duplex 2Story	1	0.158780	0.204767	0.78	-1.29E-01	2.29E-01	1.88E-01	7.65E-02	1.55E-01

Backward Selection Multiple Linear Regression

The GLMSELECT Procedure Selected Model

Parameter	DF	Estimate	Standard Error	t Value	Parameter Estimates					Cross Validation Estimates				
					1	2	3	4	5					
BldgType*HouseStyle Duplex SFoyer	1	0.345292	0.224704	1.54	0.00E+00	4.85E-01	2.05E-01	3.60E-01	5.13E-01					
BldgType*HouseStyle Twnhs 1.5Fin	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
BldgType*HouseStyle Twnhs 1.5Unf	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
BldgType*HouseStyle Twnhs 1Story	1	0.783897	0.306467	2.56	4.37E-01	7.71E-01	1.11E+00	7.10E-01	1.03E+00					
BldgType*HouseStyle Twnhs 2.5Fin	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
BldgType*HouseStyle Twnhs 2.5Unf	0	0	.	.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
BldgType*HouseStyle Twnhs 2Story	1	0.197326	0.185571	1.06	1.13E-01	2.00E-01	1.89E-01	1.43E-01	1.98E-01					
BldgType*HouseStyle Twnhs SFoyer	1	0.313493	0.289548	1.08	0.00E+00	3.93E-01	4.36E-01	4.33E-01	5.89E-01					
GarageCars	1	-1.014943	0.456158	-2.22	-7.27E-01	-4.64E-01	-1.36E+00	-8.54E-01	-1.54E+00					
YearBuilt*GarageCars	1	0.000529	0.000229	2.31	3.96E-04	2.42E-04	7.08E-04	4.40E-04	7.89E-04					
MasVnrAre*GarageCars	1	0.000120	0.000047401	2.53	9.45E-05	1.61E-04	6.12E-05	6.38E-05	1.37E-04					
GarageCars*BldgType 1Fam	1	0.041212	0.038478	1.07	1.13E-02	5.16E-02	4.14E-02	6.55E-02	4.88E-02					
GarageCars*BldgType 2fmCon	1	-0.079679	0.053885	-1.48	-1.41E-01	-6.30E-02	-6.71E-02	-6.90E-02	-5.85E-02					
GarageCars*BldgType Duplex	1	-0.023102	0.042318	-0.55	-2.52E-02	-1.68E-02	-2.67E-02	-1.92E-03	-2.42E-02					
GarageCars*BldgType Twnhs	1	0.098948	0.062370	1.59	3.18E-02	1.10E-01	5.90E-02	1.75E-01	1.04E-01					

Backward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

Number of Observations Read	2919
Number of Observations Used	1452
Number of Observations with Missing Values	1467

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	97	206.61164	2.13002	116.24	<.0001
Error	1354	24.81057	0.01832		
Corrected Total	1451	231.42221			

Root MSE	0.13537	R-Square	0.8928
Dependent Mean	12.02239	Adj R-Sq	0.8851
Coeff Var	1.12595		

Note: Model is not full rank. Least-squares solutions for the parameters are not unique. Some statistics will be misleading. A reported DF of 0 or B means that the estimate is biased.

Note: The following parameters have been set to 0, since the variables are a linear combination of other variables as shown.

MasVnrAre*HouseStyle 1.5Unf =	0
MasVnrAre*HouseStyle 2.5Fin =	0
MasVnrAre*HouseStyle 2.5Unf =	0
FullBath*HouseStyle 1.5Unf =	HouseStyle 1.5Unf
BldgType*HouseStyle 2fmCon 1.5Un =	474E-14 * HouseStyle 1.5Fin + HouseStyle 1.5Unf + 504E-14 * HouseStyle 1Story + 624E-14 * HouseStyle 2.5Fin + 524E-14 * HouseStyle 2.5Unf + 476E-14 * HouseStyle 2Story + 522E-14 * HouseStyle SFoyer - 706E-15 * GrLlvArea*HouseStyle 1.5Unf - 229E-17 * YearBuilt*HouseStyle 1.5Fin - 978E-17 * YearBuilt*HouseStyle 1.5Unf - 24E-16 * YearBuilt*HouseStyle 1Story - 271E-17 * YearBuilt*HouseStyle 2.5Fin - 251E-17 * YearBuilt*HouseStyle 2.5Unf - 224E-17 * YearBuilt*HouseStyle 2Story - 249E-17 * YearBuilt*HouseStyle SFoyer - BldgType*HouseStyle 1Fam 1.5Unf
BldgType*HouseStyle 2fmCon 2.5Fi =	146E-18 * OverallCOn*YearBuilt - 68E-17 * TotalBsmtSF + 352E-21 * YearBuilt*TotalBsmtS + 588E-14 * HouseStyle 1.5Fin + 586E-14 * HouseStyle 1.5Unf + 579E-14 * HouseStyle 1Story + 1 * HouseStyle 2.5Fin + 727E-14 * HouseStyle 2.5Unf + 602E-14 * HouseStyle 2Story + 56E-13 * HouseStyle SFoyer - 702E-14 * GrLlvArea*HouseStyle 2.5Fin - 275E-17 * YearBuilt*HouseStyle 1.5Fin - 267E-17 * YearBuilt*HouseStyle 1.5Unf - 263E-17 * YearBuilt*HouseStyle 1Story - 272E-16 * YearBuilt*HouseStyle 2.5Fin - 338E-17 * YearBuilt*HouseStyle 2.5Unf - 275E-17 * YearBuilt*HouseStyle 2Story - 257E-17 * YearBuilt*HouseStyle SFoyer - BldgType*HouseStyle 1Fam 2.5Fin
BldgType*HouseStyle 2fmCon 2.5Un =	525E-14 * HouseStyle 1.5Fin + 571E-14 * HouseStyle 1.5Unf + 52E-13 * HouseStyle 1Story + 677E-14 * HouseStyle 2.5Fin + HouseStyle 2.5Unf + 529E-14 * HouseStyle 2Story + 525E-14 * HouseStyle SFoyer - 246E-17 * YearBuilt*HouseStyle 1.5Fin - 257E-17 * YearBuilt*HouseStyle 1.5Unf - 237E-17 * YearBuilt*HouseStyle 1Story - 308E-17 * YearBuilt*HouseStyle 2.5Fin - 165E-16 * YearBuilt*HouseStyle 2.5Unf - 241E-17 * YearBuilt*HouseStyle 2Story - 241E-17 * YearBuilt*HouseStyle SFoyer - BldgType*HouseStyle 1Fam 2.5Unf
BldgType*HouseStyle 2fmCon SFoye =	0

Backward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

BldgType*HouseStyle Duplex 1.5Fi =	918E-15 * OverallCond - 537E-18 * OverallCon*YearBuilt - 344E-17 * MasVnrArea + 173E-20 * YearBuilt*MasVnrArea + 38E-16 * TotalBsmtSF - 168E-20 * YearBuilt*TotalBsmtS - 415E-14 * BldgType 1Fam - 519E-14 * BldgType 2fmCon - 42E-13 * BldgType Duplex - 388E-14 * BldgType Twnhs + 603E-15 * GrLlvArea_1*BldgType 1Fam + 737E-15 * GrLlvArea_1*BldgType 2fmCon + 603E-15 * GrLlvArea_1*BldgType Duplex + 548E-15 * GrLlvArea_1*BldgType Twnhs + HouseStyle 1.5Fin - 202E-13 * HouseStyle 1.5Unf - 265E-13 * HouseStyle 1Story - 138E-12 * HouseStyle 2.5Fin - 289E-13 * HouseStyle 2.5Unf - 262E-13 * HouseStyle 2Story - 286E-13 * HouseStyle SFoyer + 22E-14 * GrLlvArea*HouseStyle 1Story + 795E-14 * GrLlvArea*HouseStyle 2.5Fin + 222E-15 * GrLlvArea*HouseStyle 2Story + 139E-16 * YearBuilt*HouseStyle 1.5Fin + 991E-17 * YearBuilt*HouseStyle 1.5Unf + 124E-16 * YearBuilt*HouseStyle 1Story + 397E-16 * YearBuilt*HouseStyle 2.5Fin + 139E-16 * YearBuilt*HouseStyle 2.5Unf + 124E-16 * YearBuilt*HouseStyle 2Story + 133E-16 * YearBuilt*HouseStyle SFoyer - BldgType*HouseStyle 1Fam 1.5Fin - BldgType*HouseStyle 2fmCon 1.5Fi
BldgType*HouseStyle Duplex 1.5Un =	0
BldgType*HouseStyle Duplex 2.5Fi =	0
BldgType*HouseStyle Duplex 2.5Un =	0
BldgType*HouseStyle Twnhs 1.5Fin =	0
BldgType*HouseStyle Twnhs 1.5Unf =	0
BldgType*HouseStyle Twnhs 2.5Fin =	0
BldgType*HouseStyle Twnhs 2.5Unf =	0

Backward Selection Multiple Linear Regression

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	-2.98488	4.28522	-0.70	0.4862
GrLlvArea_I	GrLlvArea_I	1	0.26023	0.19321	1.35	0.1783
LotArea	LotArea	1	0.00002250	0.00000625	3.60	0.0003
OverallCond	OverallCond	B	1.65779	0.29774	5.57	<.0001
GrLlvArea*OverallCon	GrLlvArea*OverallCon	1	-0.03441	0.01177	-2.92	0.0035
YearBuilt	YearBuilt	1	0.00611	0.00195	3.13	0.0018
OverallCon*YearBuilt	OverallCon*YearBuilt	B	-0.00068847	0.00014327	-4.81	<.0001
MasVnrArea	MasVnrArea	B	-0.01339	0.00307	-4.36	<.0001
YearBuilt*MasVnrArea	YearBuilt*MasVnrArea	B	0.00000677	0.00000158	4.30	<.0001
TotalBsmtSF	TotalBsmtSF	B	-0.00219	0.00121	-1.80	0.0717
LotArea*TotalBsmtSF	LotArea*TotalBsmtSF	1	-7.94436E-9	8.87031E-10	-8.96	<.0001
YearBuilt*TotalBsmtS	YearBuilt*TotalBsmtS	B	0.00000146	6.127914E-7	2.37	0.0177
MasVnrAre*TotalBsmtS	MasVnrAre*TotalBsmtS	1	-2.85396E-7	6.045085E-8	-4.72	<.0001
FullBath	FullBath	1	-1.77144	0.76465	-2.32	0.0207
YearBuilt*FullBath	YearBuilt*FullBath	1	0.00092387	0.00039057	2.37	0.0181
TotalBsmtSF*FullBath	TotalBsmtSF*FullBath	1	-0.00004752	0.00002260	-2.10	0.0356
Fireplaces	Fireplaces	1	2.10308	0.56615	3.71	0.0002
OverallCo*Fireplaces	OverallCo*Fireplaces	1	0.01236	0.00646	1.91	0.0558
YearBuilt*Fireplaces	YearBuilt*Fireplaces	1	-0.00111	0.00028376	-3.92	<.0001
MasVnrAre*Fireplaces	MasVnrAre*Fireplaces	1	0.00007177	0.00004368	1.64	0.1006
TotalBsmt*Fireplaces	TotalBsmt*Fireplaces	1	0.00005536	0.00001692	3.27	0.0011
LotConfig Corner	LotConfig Corner	1	0.00900	0.00982	0.92	0.3593
LotConfig CulDSac	LotConfig CulDSac	1	0.02100	0.01579	1.33	0.1837
LotConfig FR2	LotConfig FR2	1	-0.02382	0.02081	-1.14	0.2526
LotConfig FR3	LotConfig FR3	1	0.01254	0.06878	0.18	0.8554
BldgType 1Fam	BldgType 1Fam	B	-2.13084	1.04065	-2.05	0.0408
BldgType 2fmCon	BldgType 2fmCon	B	-3.09802	1.40108	-2.21	0.0272
BldgType Duplex	BldgType Duplex	B	0.18662	1.34802	0.14	0.8899
BldgType Twnhs	BldgType Twnhs	B	-1.70019	2.25370	-0.75	0.4507
GrLlvArea_I*BldgType 1Fam	GrLlvArea_I*BldgType 1Fam	B	0.31305	0.16087	1.95	0.0519
GrLlvArea_I*BldgType 2fmCon	GrLlvArea_I*BldgType 2fmCon	B	0.49413	0.21249	2.33	0.0202
GrLlvArea_I*BldgType Duplex	GrLlvArea_I*BldgType Duplex	B	-0.00569	0.20294	-0.03	0.9776
GrLlvArea_I*BldgType Twnhs	GrLlvArea_I*BldgType Twnhs	B	0.27389	0.35022	0.78	0.4343

Backward Selection Multiple Linear Regression

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
TotalBsmtSF*BldgType 1Fam	TotalBsmtSF*BldgType 1Fam	1	-0.00033999	0.00014335	-2.37	0.0178
TotalBsmtSF*BldgType 2fmCon	TotalBsmtSF*BldgType 2fmCon	1	-0.00026326	0.00018632	-1.41	0.1579
TotalBsmtSF*BldgType Duplex	TotalBsmtSF*BldgType Duplex	1	-0.00034640	0.00014821	-2.34	0.0196
TotalBsmtSF*BldgType Twnhs	TotalBsmtSF*BldgType Twnhs	1	-0.00095306	0.00038062	-2.50	0.0124
HouseStyle 1.5Fin	HouseStyle 1.5Fin	B	1.86182	3.65050	0.51	0.6101
HouseStyle 1.5Unf	HouseStyle 1.5Unf	B	5.78296	7.93845	0.73	0.4664
HouseStyle 1Story	HouseStyle 1Story	B	-0.21866	3.61277	-0.06	0.9517
HouseStyle 2.5Fin	HouseStyle 2.5Fin	B	7.00013	24.15033	0.29	0.7720
HouseStyle 2.5Unf	HouseStyle 2.5Unf	B	-7.65107	10.02672	-0.76	0.4456
HouseStyle 2Story	HouseStyle 2Story	B	1.46406	3.55181	0.41	0.6803
HouseStyle SFoyer	HouseStyle SFoyer	B	-1.02283	6.06951	-0.17	0.8662
GrLlvArea*HouseStyle 1.5Fin	GrLlvArea*HouseStyle 1.5Fin	1	0.26805	0.11348	2.36	0.0183
GrLlvArea*HouseStyle 1.5Unf	GrLlvArea*HouseStyle 1.5Unf	B	0.09648	0.37830	0.26	0.7987
GrLlvArea*HouseStyle 1Story	GrLlvArea*HouseStyle 1Story	B	0.05416	0.09886	0.55	0.5839
GrLlvArea*HouseStyle 2.5Fin	GrLlvArea*HouseStyle 2.5Fin	B	-0.52401	1.77896	-0.29	0.7684
GrLlvArea*HouseStyle 2.5Unf	GrLlvArea*HouseStyle 2.5Unf	1	-0.31413	0.34426	-0.91	0.3617
GrLlvArea*HouseStyle 2Story	GrLlvArea*HouseStyle 2Story	B	0.21924	0.10398	2.11	0.0352
GrLlvArea*HouseStyle SFoyer	GrLlvArea*HouseStyle SFoyer	1	-0.05846	0.19830	-0.29	0.7682
LotArea*HouseStyle 1.5Fin	LotArea*HouseStyle 1.5Fin	1	-0.00001035	0.00000624	-1.66	0.0975
LotArea*HouseStyle 1.5Unf	LotArea*HouseStyle 1.5Unf	1	0.00001929	0.00002183	0.88	0.3771
LotArea*HouseStyle 1Story	LotArea*HouseStyle 1Story	1	-0.00000457	0.00000626	-0.73	0.4655
LotArea*HouseStyle 2.5Fin	LotArea*HouseStyle 2.5Fin	1	0.00004021	0.00004897	0.82	0.4117
LotArea*HouseStyle 2.5Unf	LotArea*HouseStyle 2.5Unf	1	0.00006867	0.00002890	2.38	0.0176
LotArea*HouseStyle 2Story	LotArea*HouseStyle 2Story	1	-0.00000993	0.00000633	-1.57	0.1167
LotArea*HouseStyle SFoyer	LotArea*HouseStyle SFoyer	1	-0.00002106	0.00001542	-1.37	0.1721
YearBuilt*HouseStyle 1.5Fin	YearBuilt*HouseStyle 1.5Fin	B	-0.00189	0.00173	-1.10	0.2732
YearBuilt*HouseStyle 1.5Unf	YearBuilt*HouseStyle 1.5Unf	B	-0.00360	0.00358	-1.01	0.3146
YearBuilt*HouseStyle 1Story	YearBuilt*HouseStyle 1Story	B	-0.00016877	0.00167	-0.10	0.9197
YearBuilt*HouseStyle 2.5Fin	YearBuilt*HouseStyle 2.5Fin	B	-0.00192	0.00626	-0.31	0.7596
YearBuilt*HouseStyle 2.5Unf	YearBuilt*HouseStyle 2.5Unf	B	0.00456	0.00473	0.96	0.3352
YearBuilt*HouseStyle 2Story	YearBuilt*HouseStyle 2Story	B	-0.00159	0.00163	-0.97	0.3301
YearBuilt*HouseStyle SFoyer	YearBuilt*HouseStyle SFoyer	B	0.00062903	0.00301	0.21	0.8347
MasVnrAre*HouseStyle 1.5Fin	MasVnrAre*HouseStyle 1.5Fin	1	0.00029808	0.00015474	1.93	0.0543

Backward Selection Multiple Linear Regression

The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
MasVnrAre*HouseStyle 1.5Unf	MasVnrAre*HouseStyle 1.5Unf	0	0	.	.	.
MasVnrAre*HouseStyle 1Story	MasVnrAre*HouseStyle 1Story	1	0.00011808	0.00011225	1.05	0.2930
MasVnrAre*HouseStyle 2.5Fin	MasVnrAre*HouseStyle 2.5Fin	0	0	.	.	.
MasVnrAre*HouseStyle 2.5Unf	MasVnrAre*HouseStyle 2.5Unf	0	0	.	.	.
MasVnrAre*HouseStyle 2Story	MasVnrAre*HouseStyle 2Story	1	-0.00004180	0.00010889	-0.38	0.7011
MasVnrAre*HouseStyle SFoyer	MasVnrAre*HouseStyle SFoyer	1	0.00012193	0.00031095	0.39	0.6950
FullBath*HouseStyle 1.5Fin	FullBath*HouseStyle 1.5Fin	1	-0.01120	0.05209	-0.22	0.8297
FullBath*HouseStyle 1.5Unf	FullBath*HouseStyle 1.5Unf	0	0	.	.	.
FullBath*HouseStyle 1Story	FullBath*HouseStyle 1Story	1	-0.02698	0.04593	-0.59	0.5570
FullBath*HouseStyle 2.5Fin	FullBath*HouseStyle 2.5Fin	1	0.03674	0.13403	0.27	0.7840
FullBath*HouseStyle 2.5Unf	FullBath*HouseStyle 2.5Unf	1	0.26562	0.10100	2.63	0.0086
FullBath*HouseStyle 2Story	FullBath*HouseStyle 2Story	1	0.04342	0.04732	0.92	0.3590
FullBath*HouseStyle SFoyer	FullBath*HouseStyle SFoyer	1	-0.01180	0.06882	-0.17	0.8639
BldgType*HouseStyle 1Fam 1.5Fin	BldgType*HouseStyle 1Fam 1.5Fin	B	-0.05427	0.17896	-0.30	0.7617
BldgType*HouseStyle 1Fam 1.5Unf	BldgType*HouseStyle 1Fam 1.5Unf	B	0.41771	0.22001	1.90	0.0578
BldgType*HouseStyle 1Fam 1Story	BldgType*HouseStyle 1Fam 1Story	1	0.19576	0.14594	1.34	0.1800
BldgType*HouseStyle 1Fam 2.5Fin	BldgType*HouseStyle 1Fam 2.5Fin	B	0.37111	0.56291	0.66	0.5098
BldgType*HouseStyle 1Fam 2.5Unf	BldgType*HouseStyle 1Fam 2.5Unf	B	0.32904	0.20254	1.62	0.1045
BldgType*HouseStyle 1Fam 2Story	BldgType*HouseStyle 1Fam 2Story	1	0.08278	0.12540	0.66	0.5093
BldgType*HouseStyle 1Fam SFoyer	BldgType*HouseStyle 1Fam SFoyer	1	0.37867	0.17334	2.18	0.0291
BldgType*HouseStyle 2fmCon 1.5Fi	BldgType*HouseStyle 2fmCon 1.5Fi	B	-0.29930	0.23094	-1.30	0.1952
BldgType*HouseStyle 2fmCon 1.5Unf	BldgType*HouseStyle 2fmCon 1.5Unf	0	0	.	.	.
BldgType*HouseStyle 2fmCon 1Stor	BldgType*HouseStyle 2fmCon 1Story	1	0.01797	0.22071	0.08	0.9351
BldgType*HouseStyle 2fmCon 2.5Fi	BldgType*HouseStyle 2fmCon 2.5Fi	0	0	.	.	.
BldgType*HouseStyle 2fmCon 2.5Unf	BldgType*HouseStyle 2fmCon 2.5Unf	0	0	.	.	.
BldgType*HouseStyle 2fmCon 2Story	BldgType*HouseStyle 2fmCon 2Story	1	-0.39612	0.20464	-1.94	0.0531
BldgType*HouseStyle 2fmCon SFoyer	BldgType*HouseStyle 2fmCon SFoyer	0	0	.	.	.
BldgType*HouseStyle Duplex 1.5Fi	BldgType*HouseStyle Duplex 1.5Fin	0	0	.	.	.
BldgType*HouseStyle Duplex 1.5Unf	BldgType*HouseStyle Duplex 1.5Unf	0	0	.	.	.
BldgType*HouseStyle Duplex 1Story	BldgType*HouseStyle Duplex 1Story	1	0.20053	0.20322	0.99	0.3239
BldgType*HouseStyle Duplex 2.5Fi	BldgType*HouseStyle Duplex 2.5Fin	0	0	.	.	.
BldgType*HouseStyle Duplex 2.5Unf	BldgType*HouseStyle Duplex 2.5Unf	0	0	.	.	.
BldgType*HouseStyle Duplex 2Story	BldgType*HouseStyle Duplex 2Story	1	0.15878	0.20477	0.78	0.4382

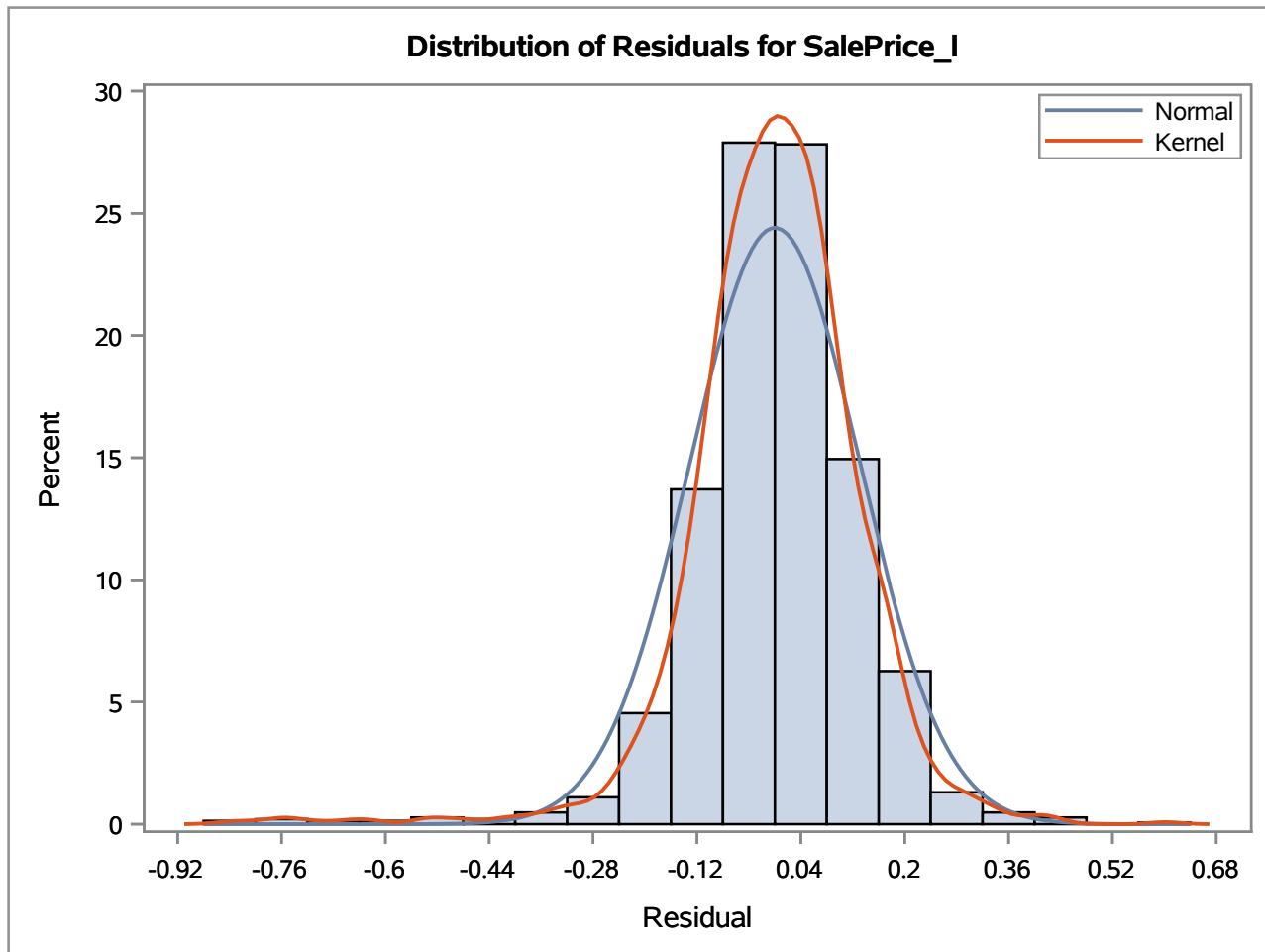
Backward Selection Multiple Linear Regression

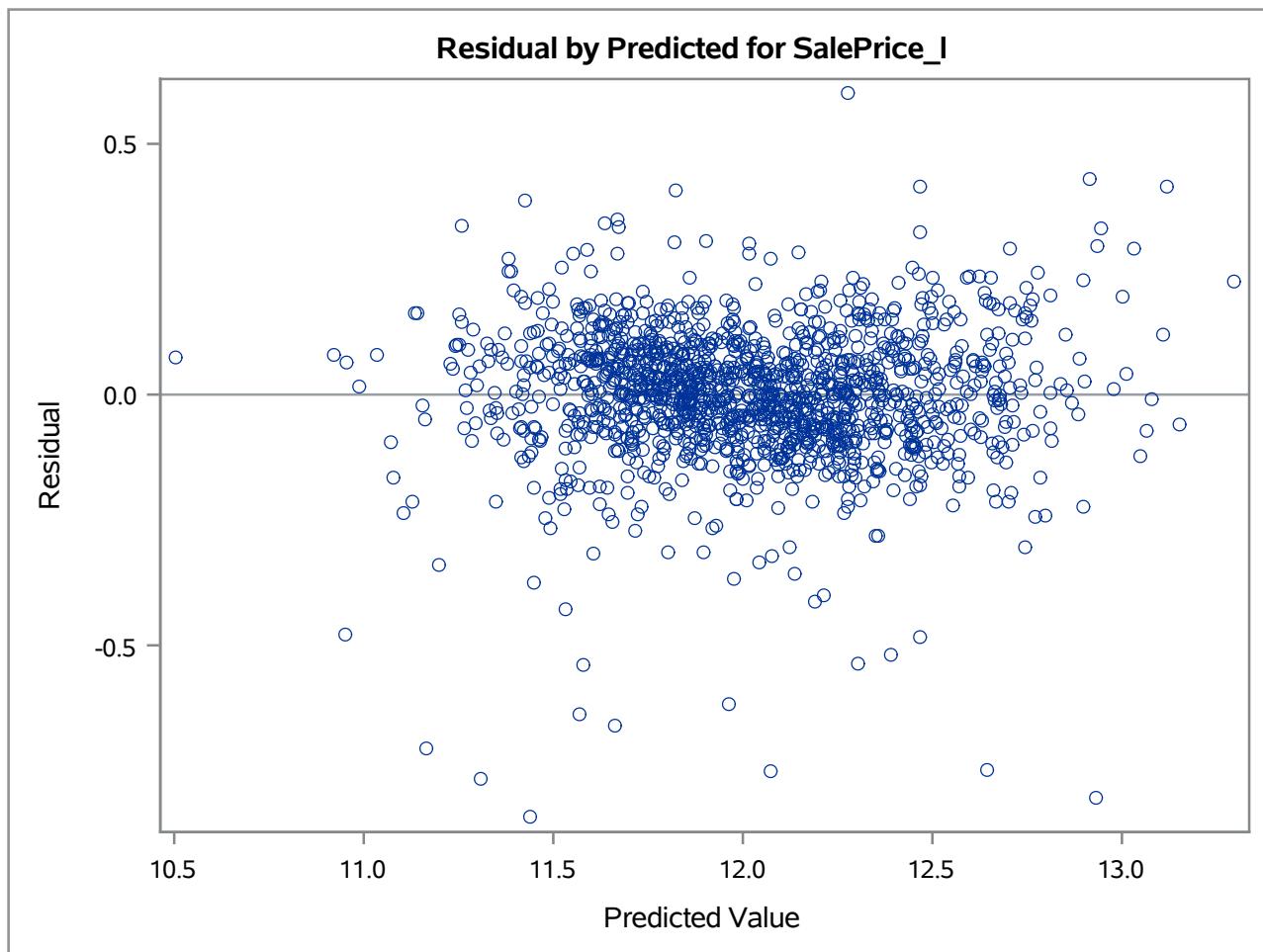
The REG Procedure

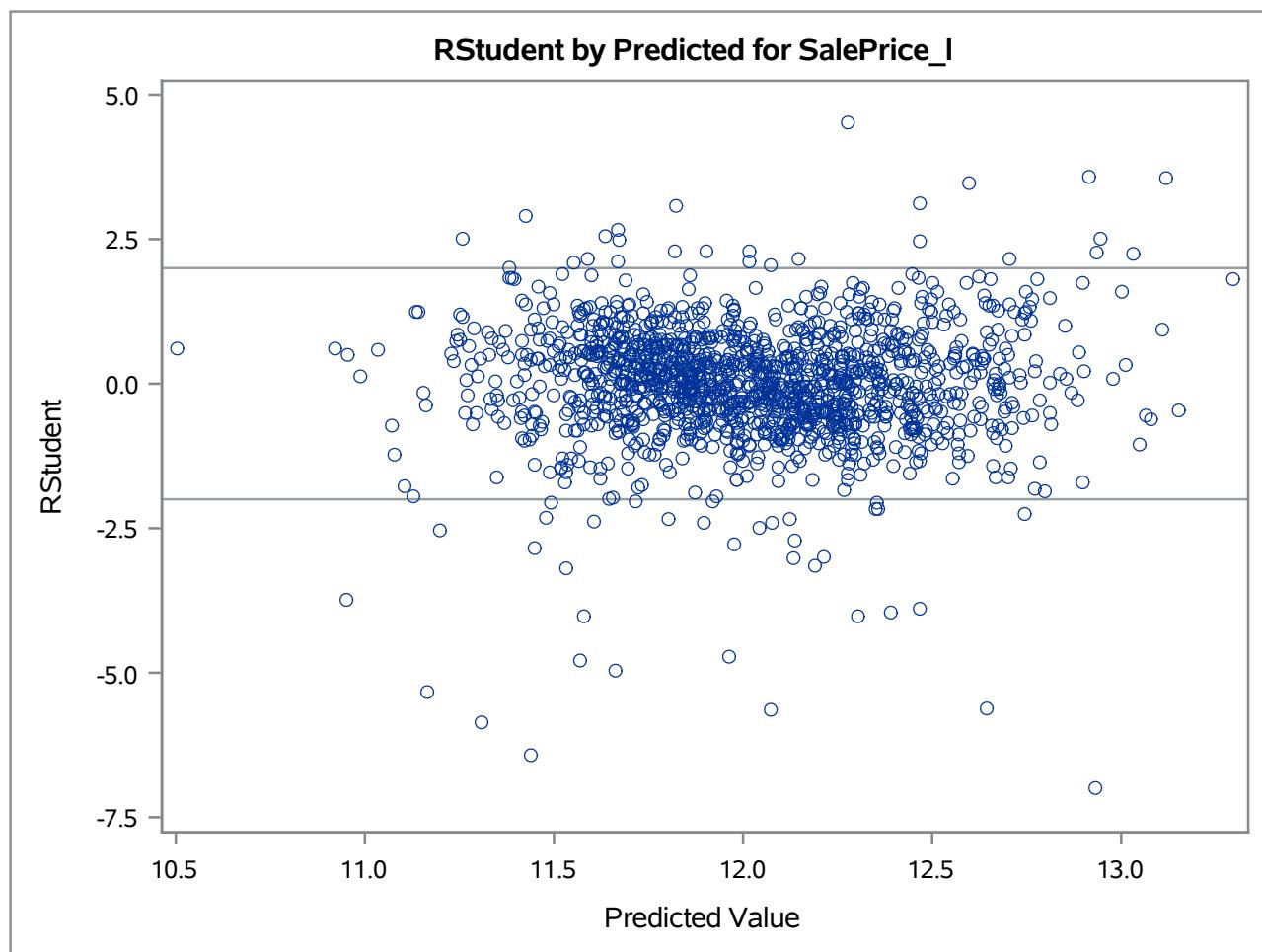
Model: MODEL1

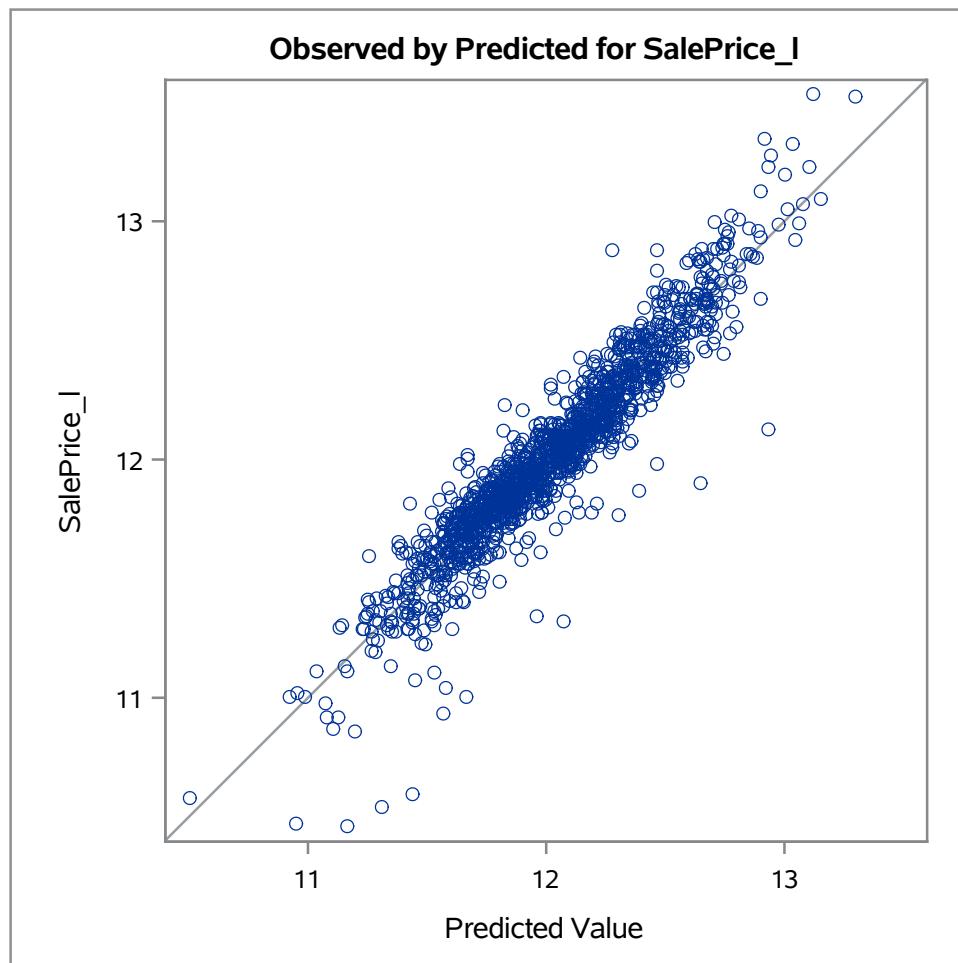
Dependent Variable: SalePrice_I

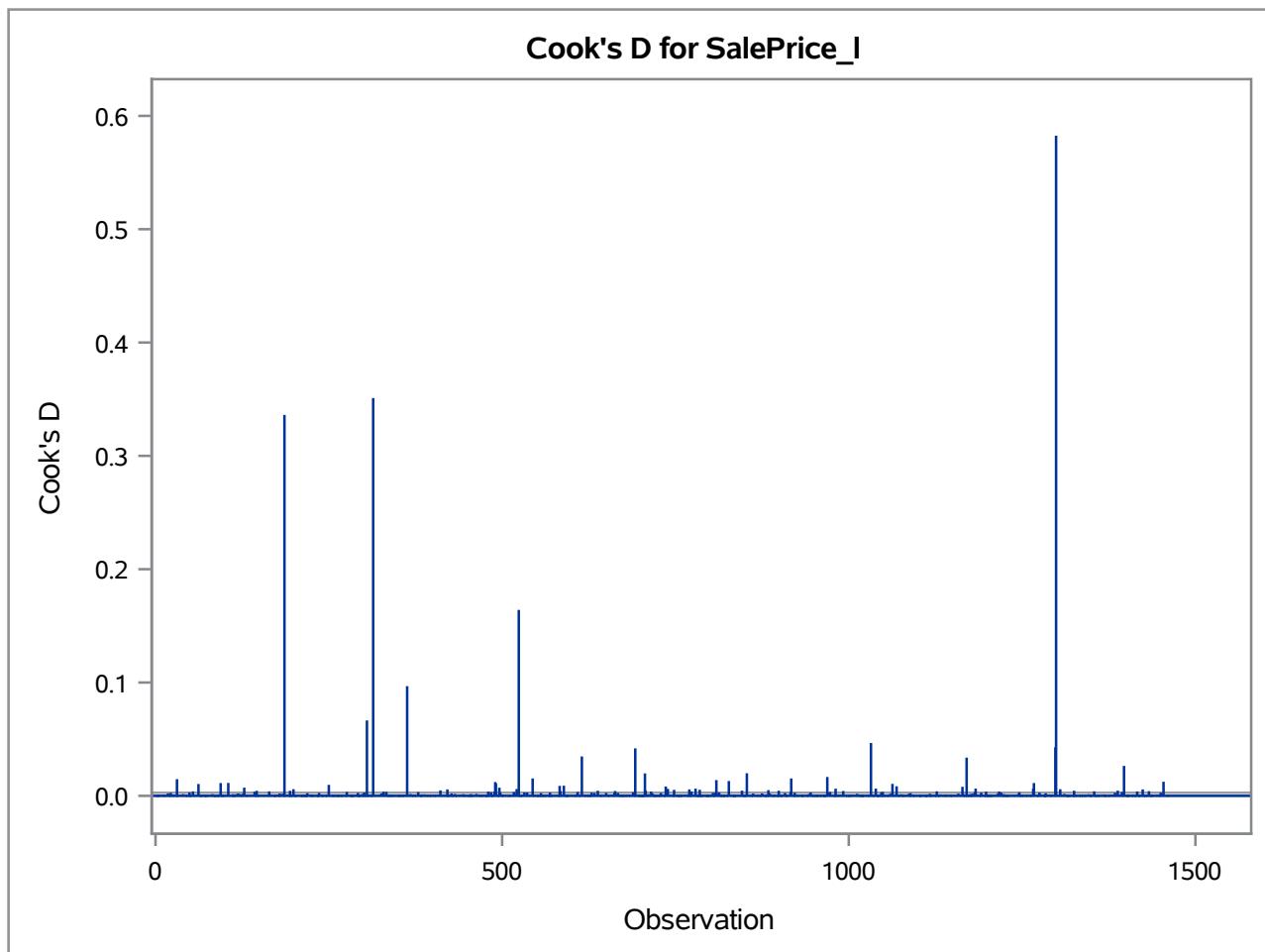
Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
BldgType*HouseStyle Duplex SFoye	BldgType*HouseStyle Duplex SFoyer	1	0.34529	0.22470	1.54	0.1246
BldgType*HouseStyle Twnhs 1.5Fin	BldgType*HouseStyle Twnhs 1.5Fin	0	0	.	.	.
BldgType*HouseStyle Twnhs 1.5Unf	BldgType*HouseStyle Twnhs 1.5Unf	0	0	.	.	.
BldgType*HouseStyle Twnhs 1Story	BldgType*HouseStyle Twnhs 1Story	1	0.78390	0.30647	2.56	0.0106
BldgType*HouseStyle Twnhs 2.5Fin	BldgType*HouseStyle Twnhs 2.5Fin	0	0	.	.	.
BldgType*HouseStyle Twnhs 2.5Unf	BldgType*HouseStyle Twnhs 2.5Unf	0	0	.	.	.
BldgType*HouseStyle Twnhs 2Story	BldgType*HouseStyle Twnhs 2Story	1	0.19733	0.18557	1.06	0.2878
BldgType*HouseStyle Twnhs SFoyer	BldgType*HouseStyle Twnhs SFoyer	1	0.31349	0.28955	1.08	0.2791
GarageCars	GarageCars	1	-1.01494	0.45616	-2.22	0.0262
YearBuilt*GarageCars	YearBuilt*GarageCars	1	0.00052888	0.00022864	2.31	0.0209
MasVnrAre*GarageCars	MasVnrAre*GarageCars	1	0.00011981	0.00004740	2.53	0.0116
GarageCars*BldgType 1Fam	GarageCars*BldgType 1Fam	1	0.04121	0.03848	1.07	0.2843
GarageCars*BldgType 2fmCon	GarageCars*BldgType 2fmCon	1	-0.07968	0.05389	-1.48	0.1395
GarageCars*BldgType Duplex	GarageCars*BldgType Duplex	1	-0.02310	0.04232	-0.55	0.5852
GarageCars*BldgType Twnhs	GarageCars*BldgType Twnhs	1	0.09895	0.06237	1.59	0.1129

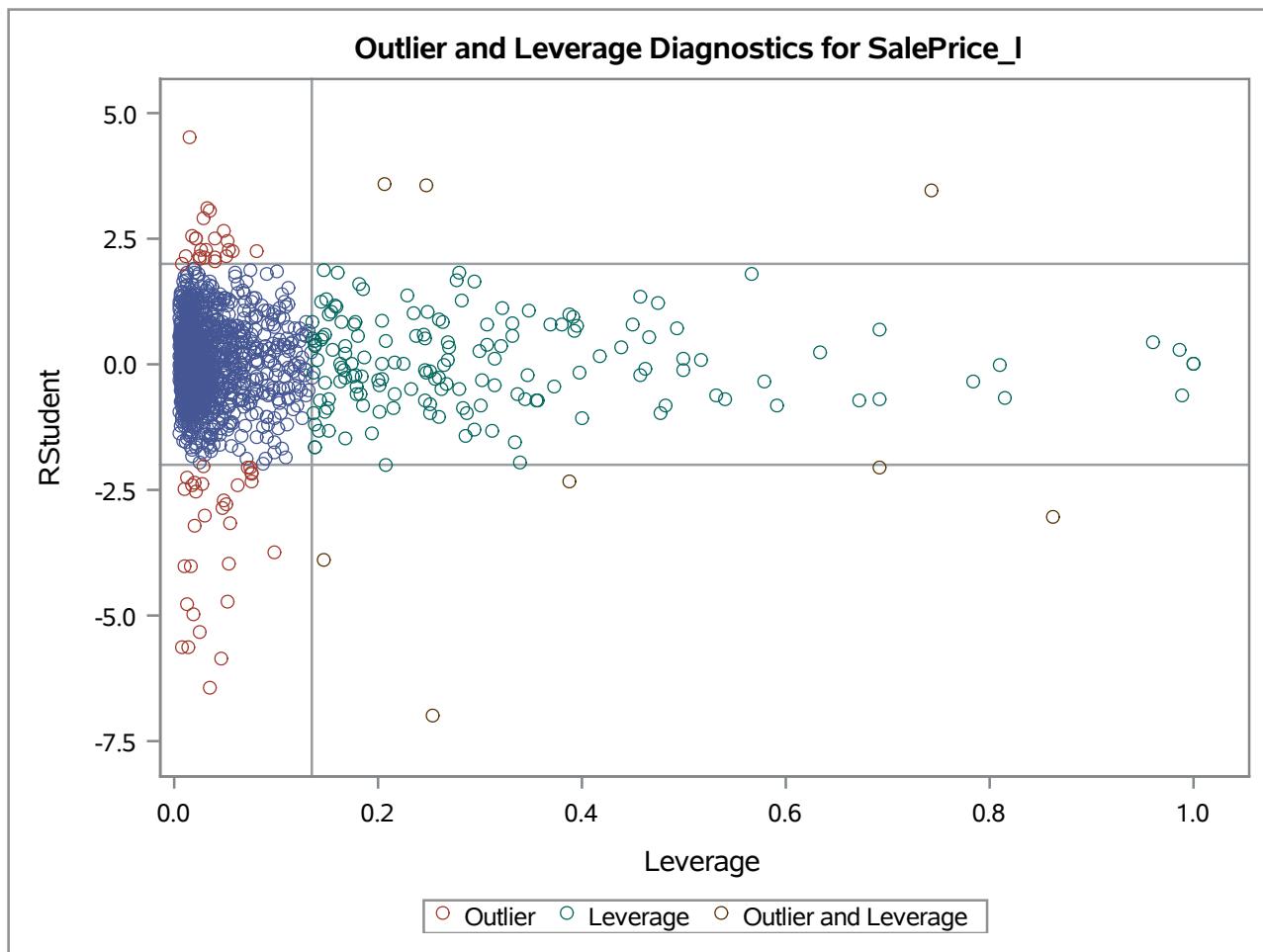
Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

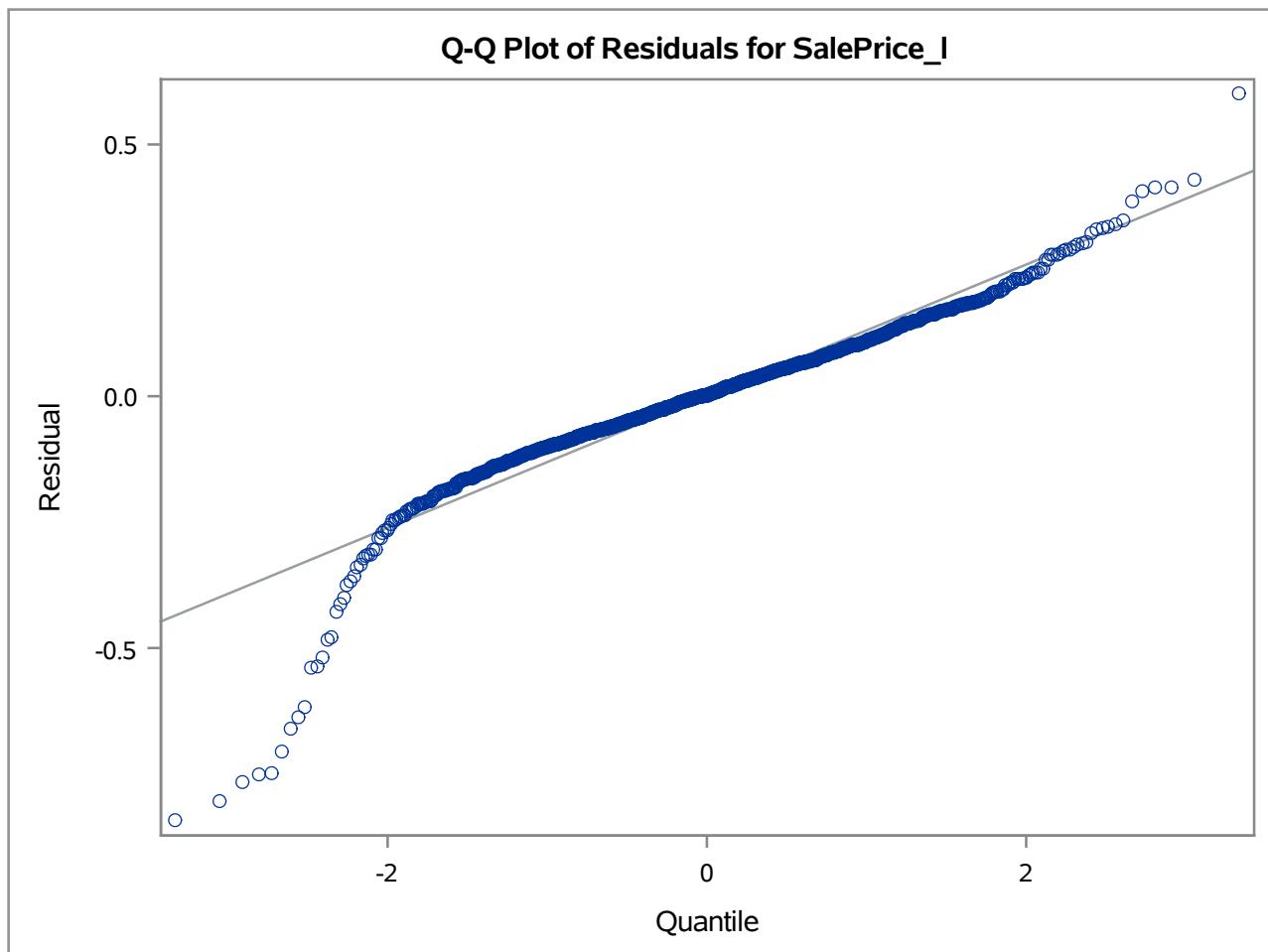
Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Backward Selection Multiple Linear Regression

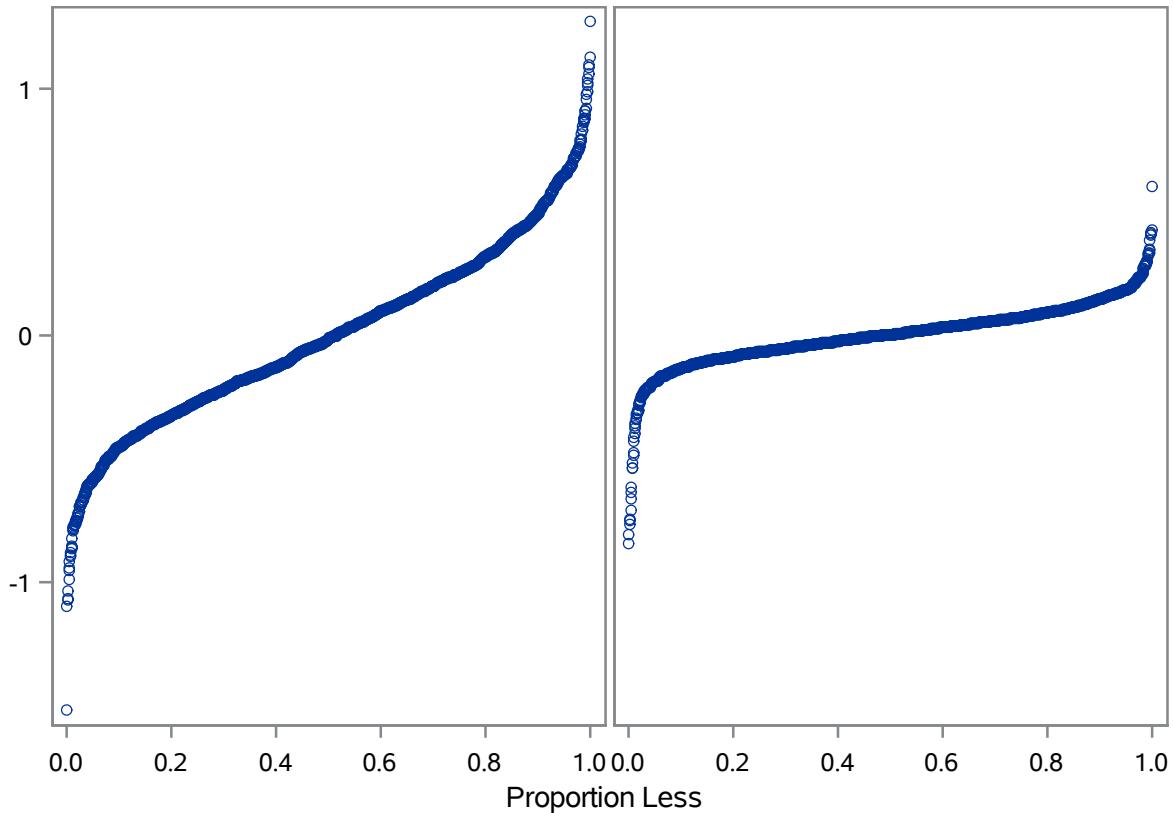
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

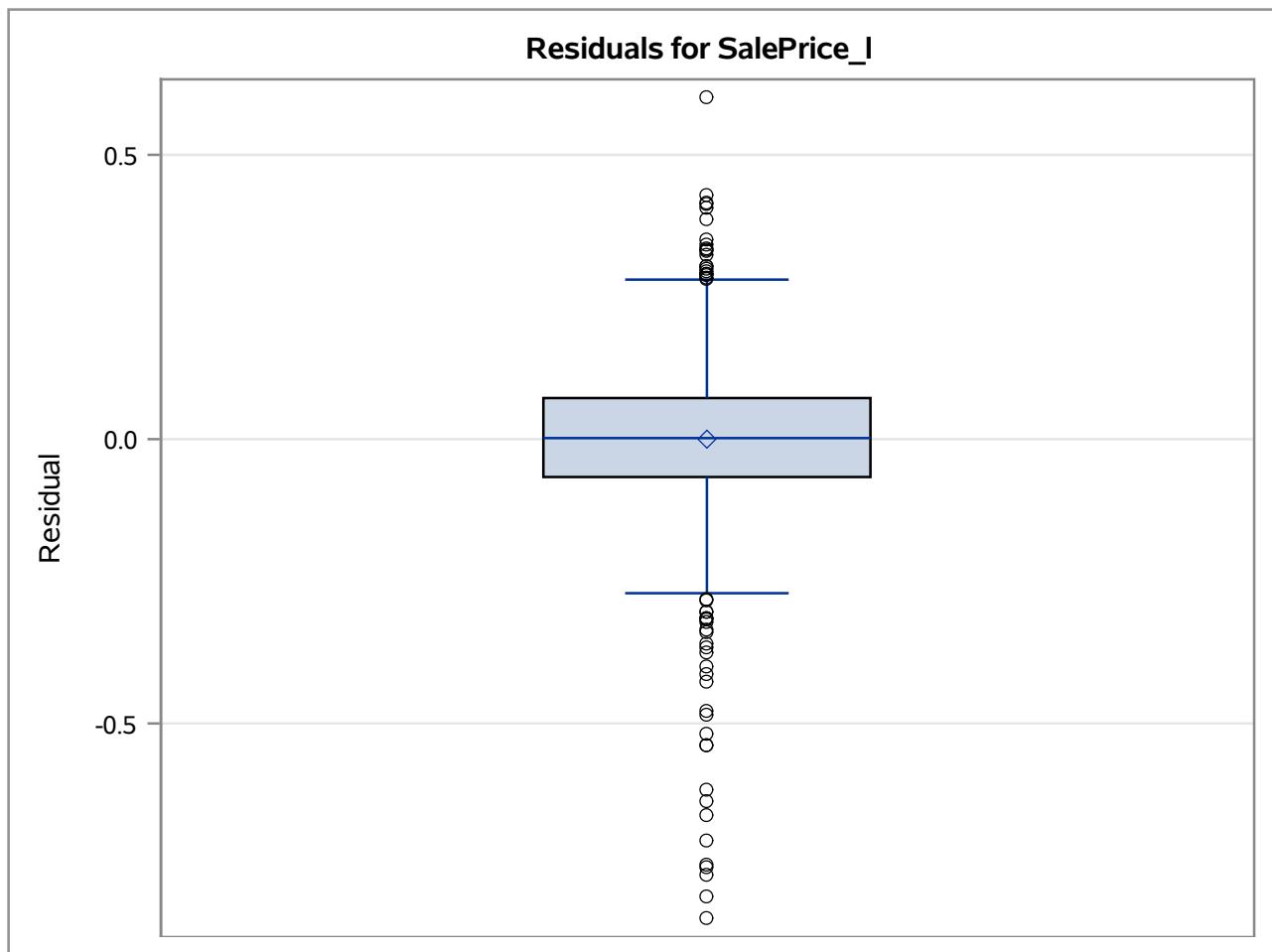


Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I****Residual-Fit Spread Plot for SalePrice_I**

Fit-Mean

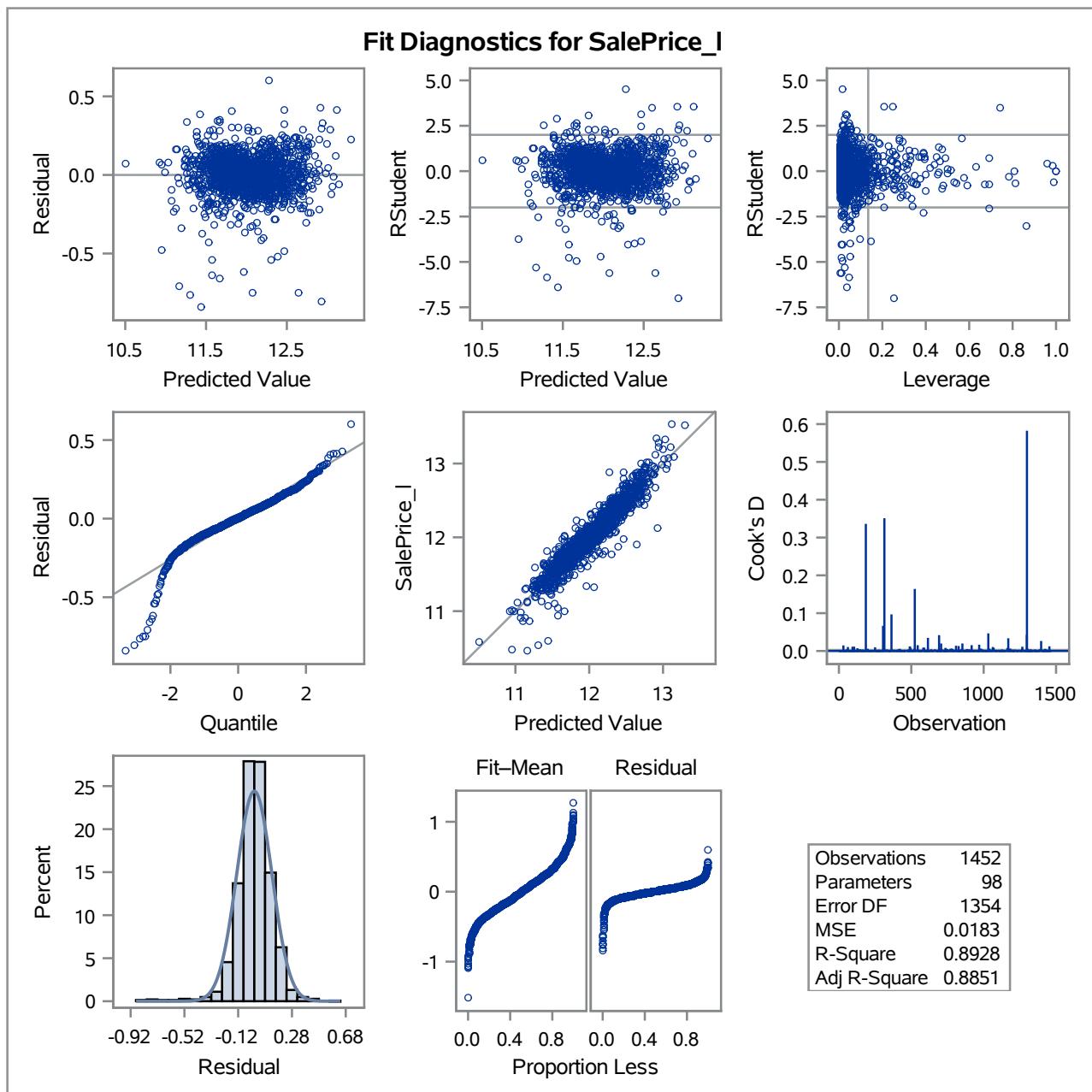
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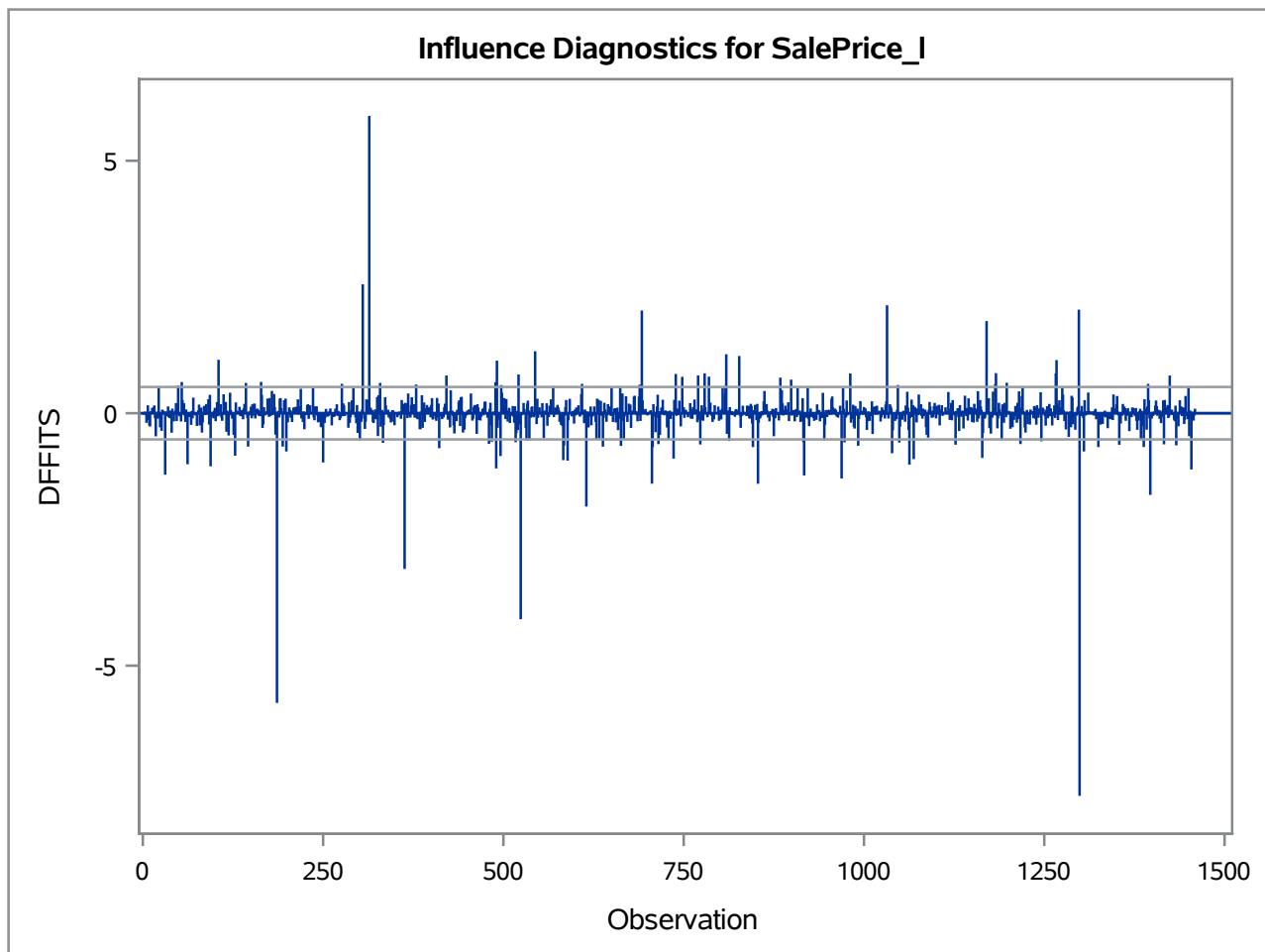


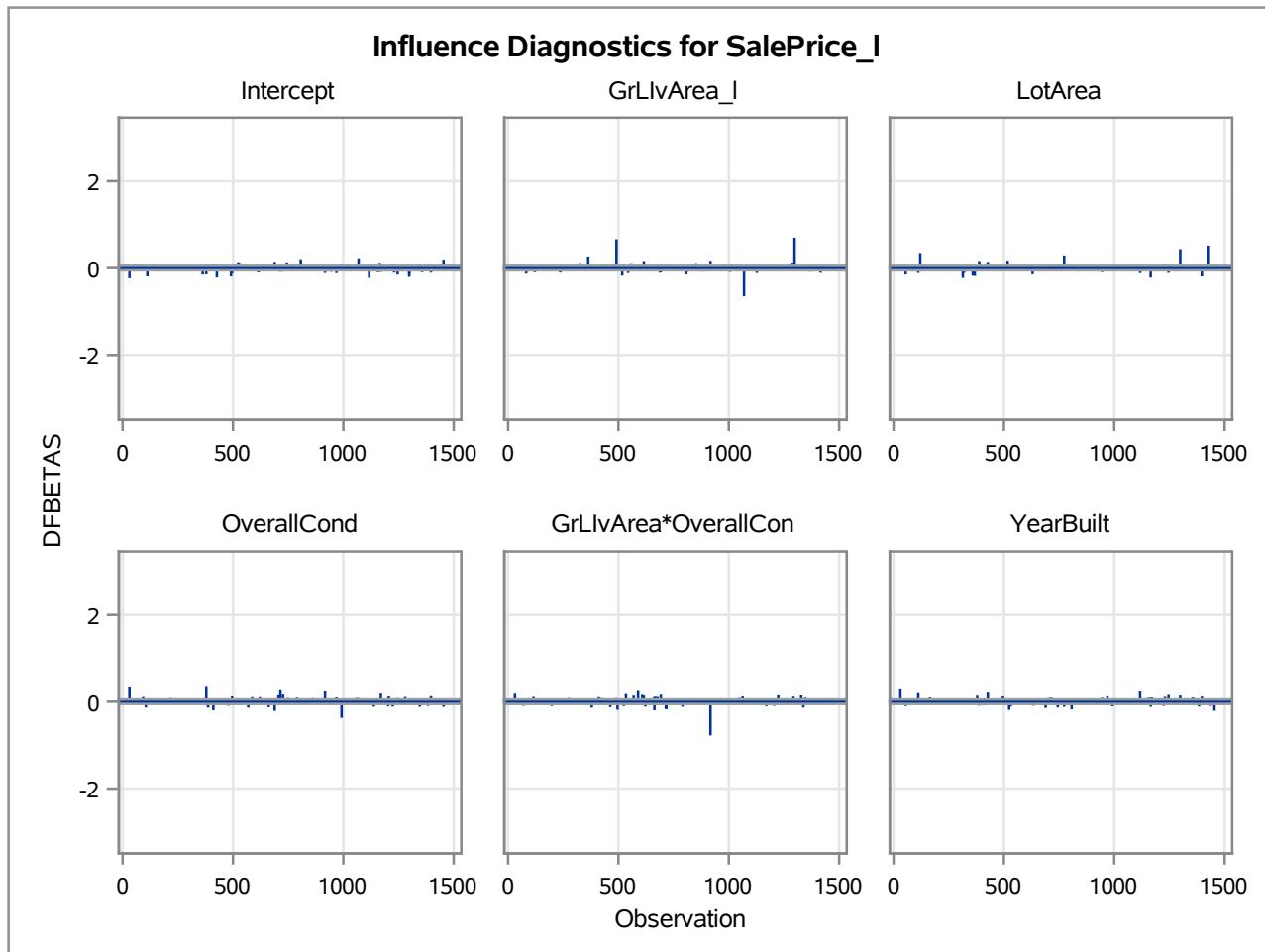
Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

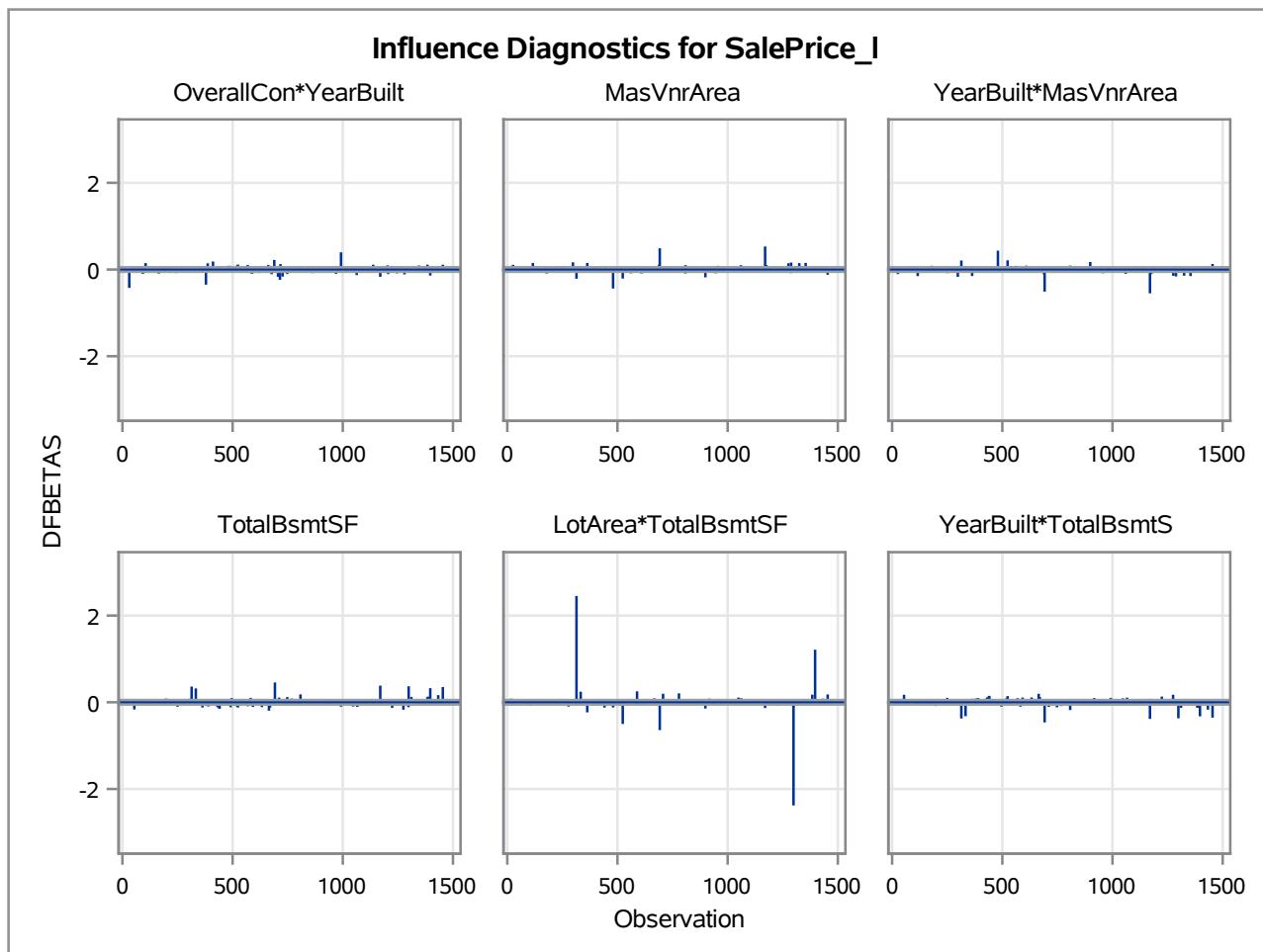
Backward Selection Multiple Linear Regression

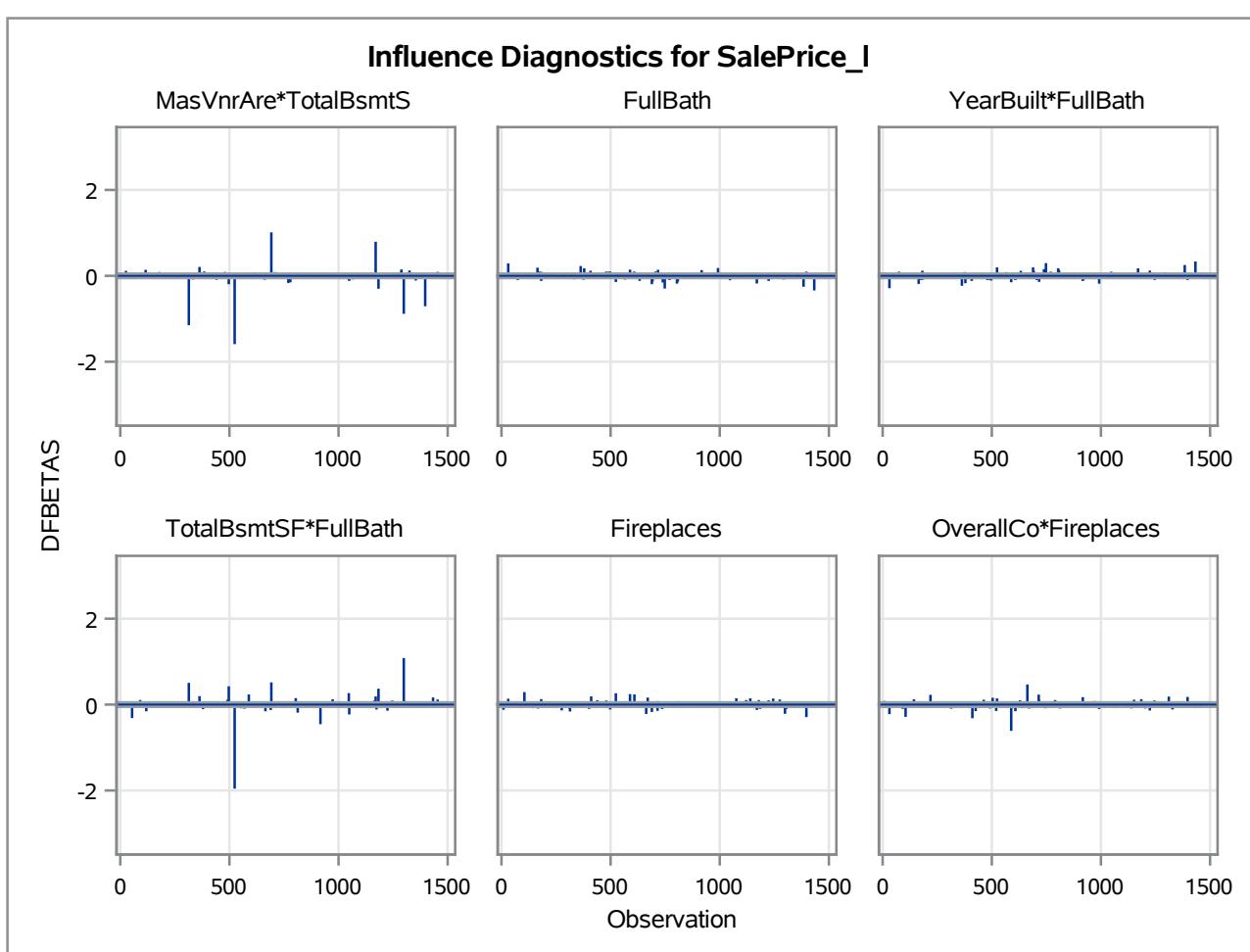
The REG Procedure
Model: MODEL1
Dependent Variable: SalePrice_I

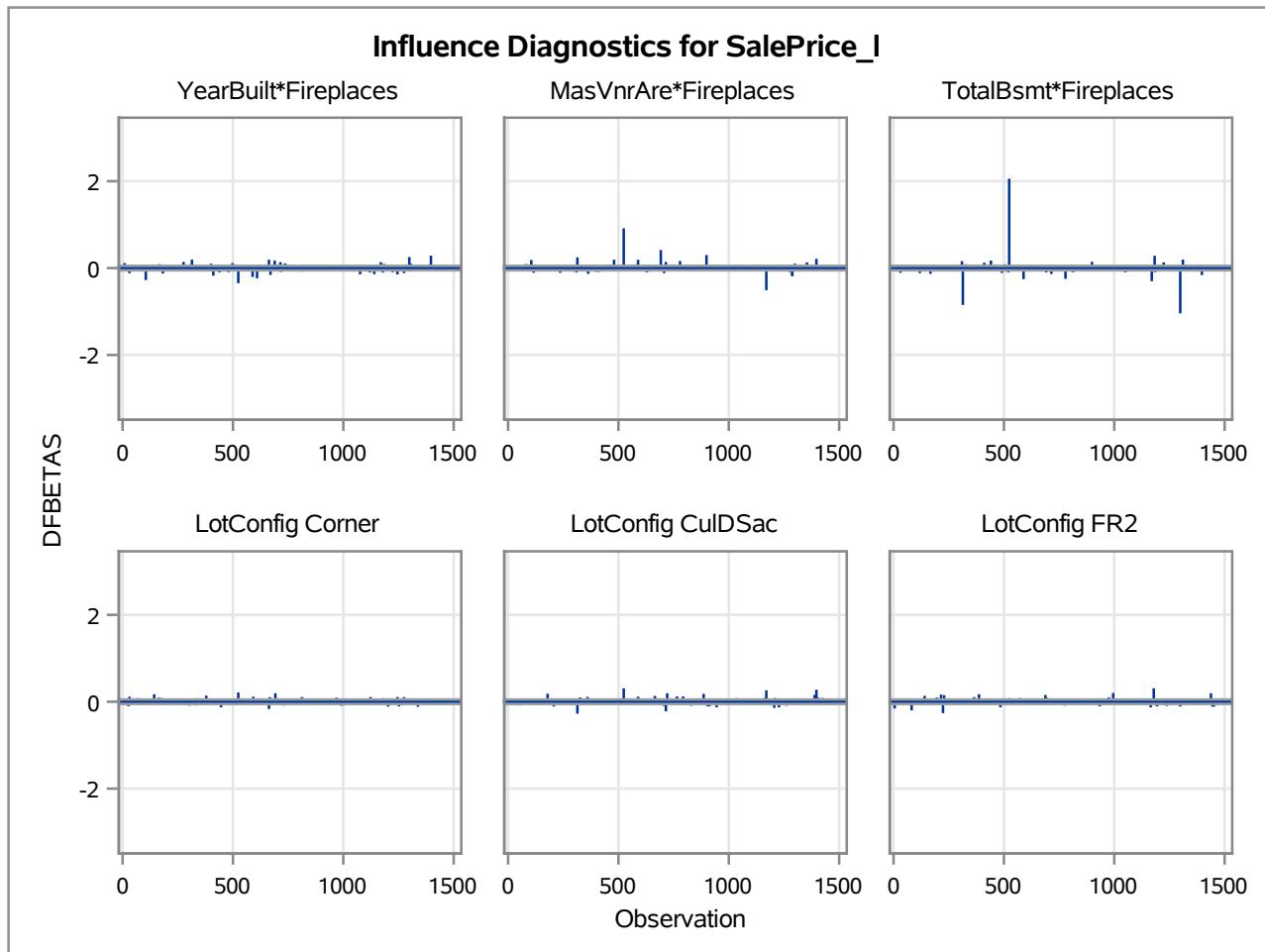


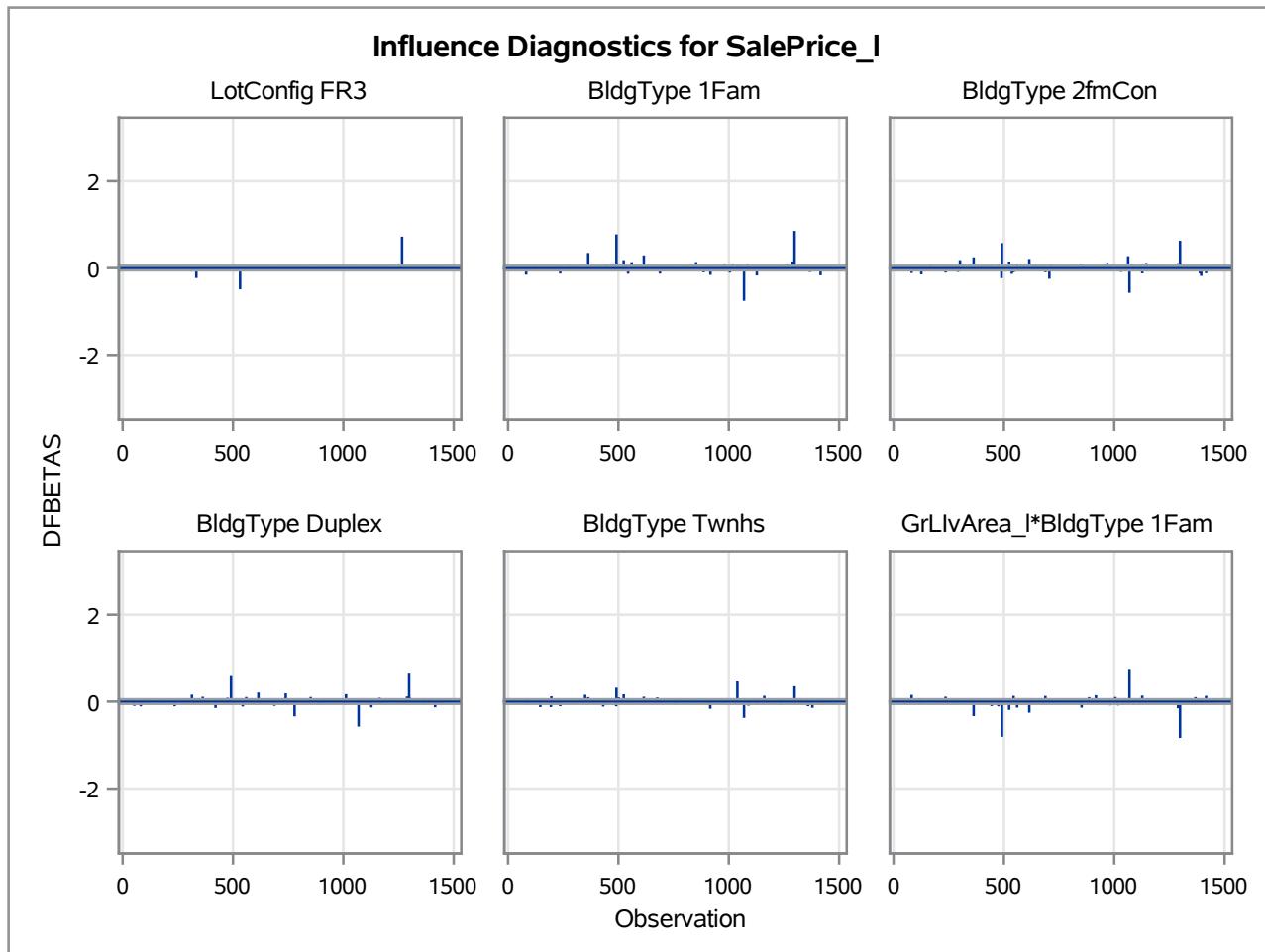
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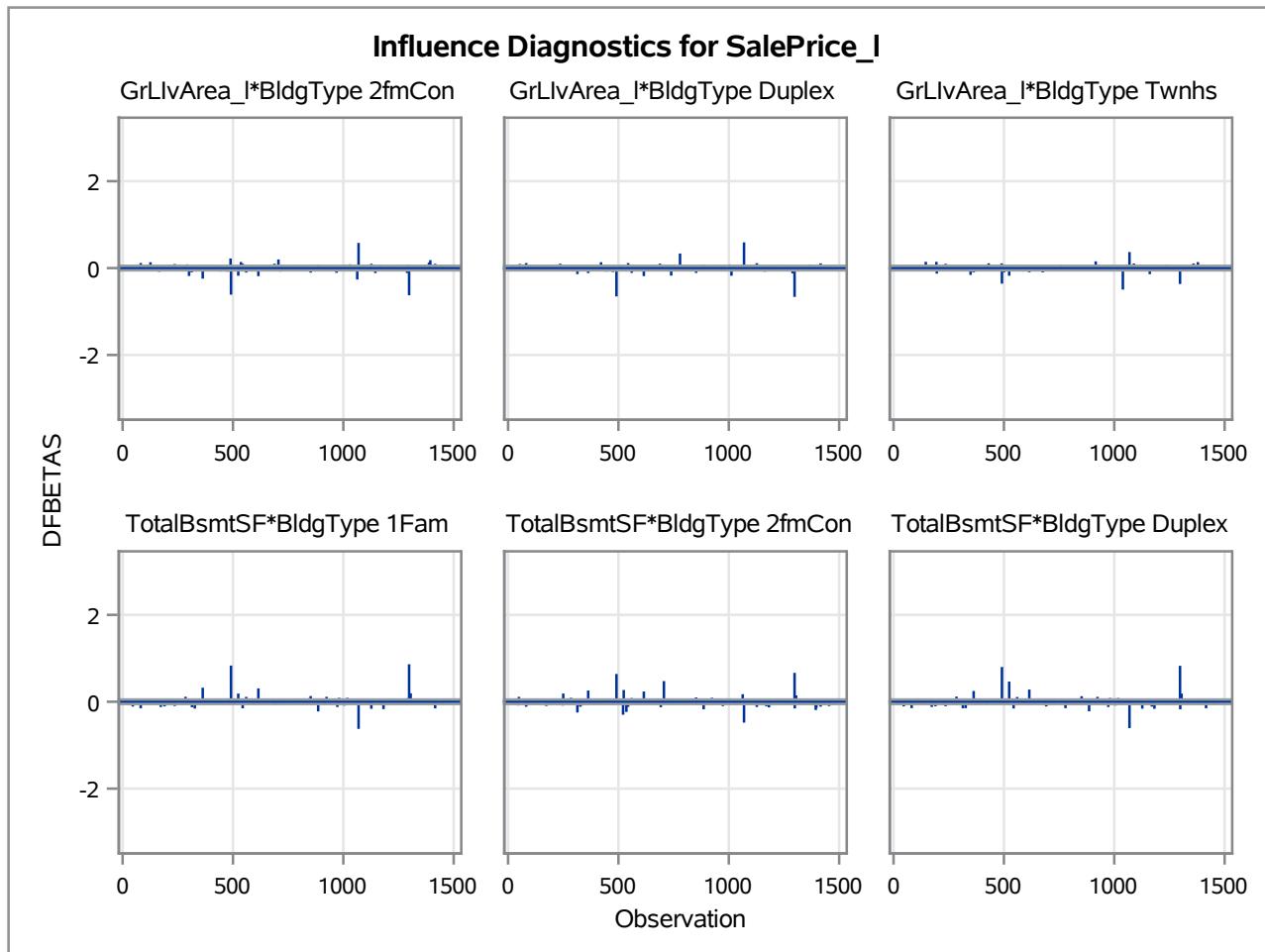
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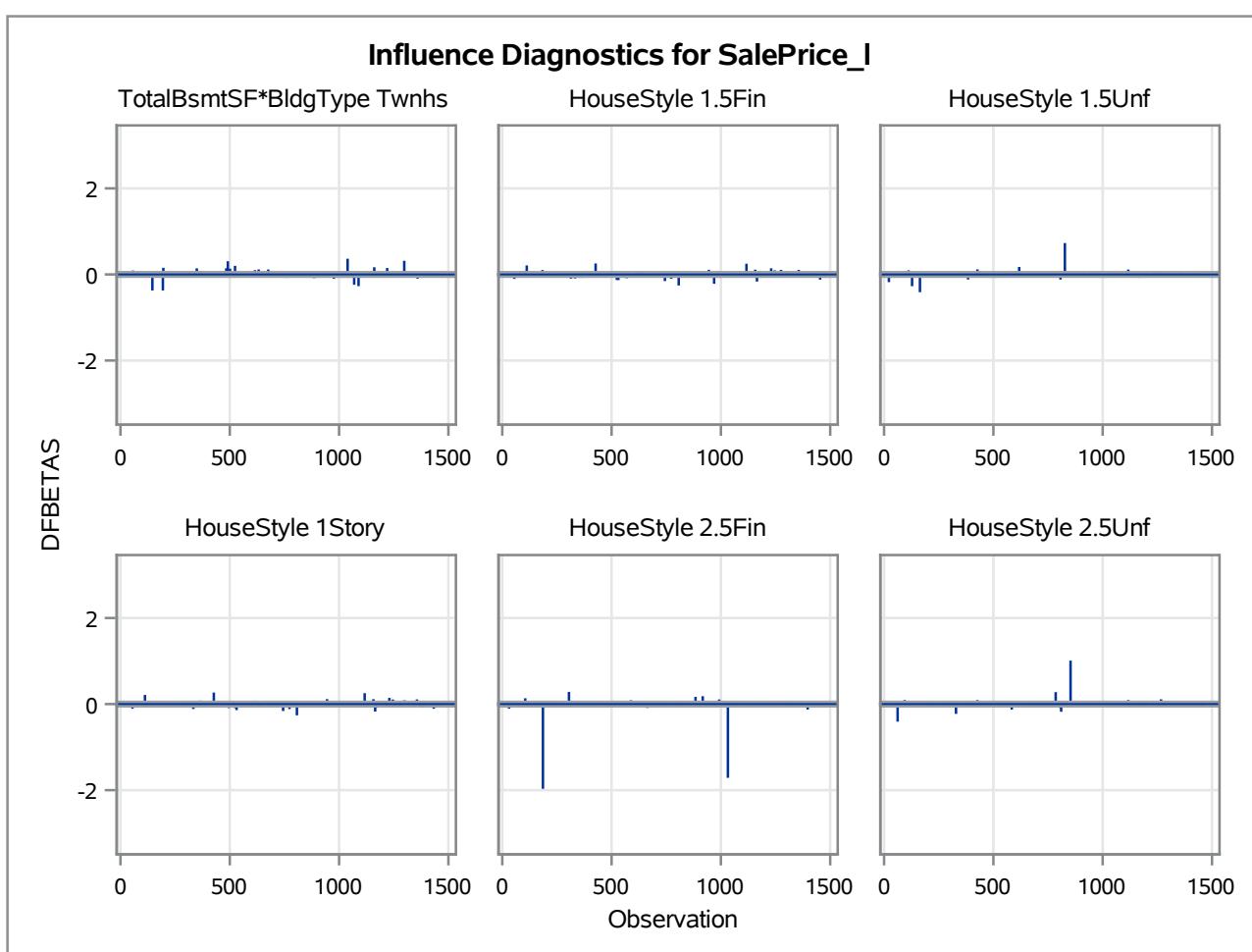
Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

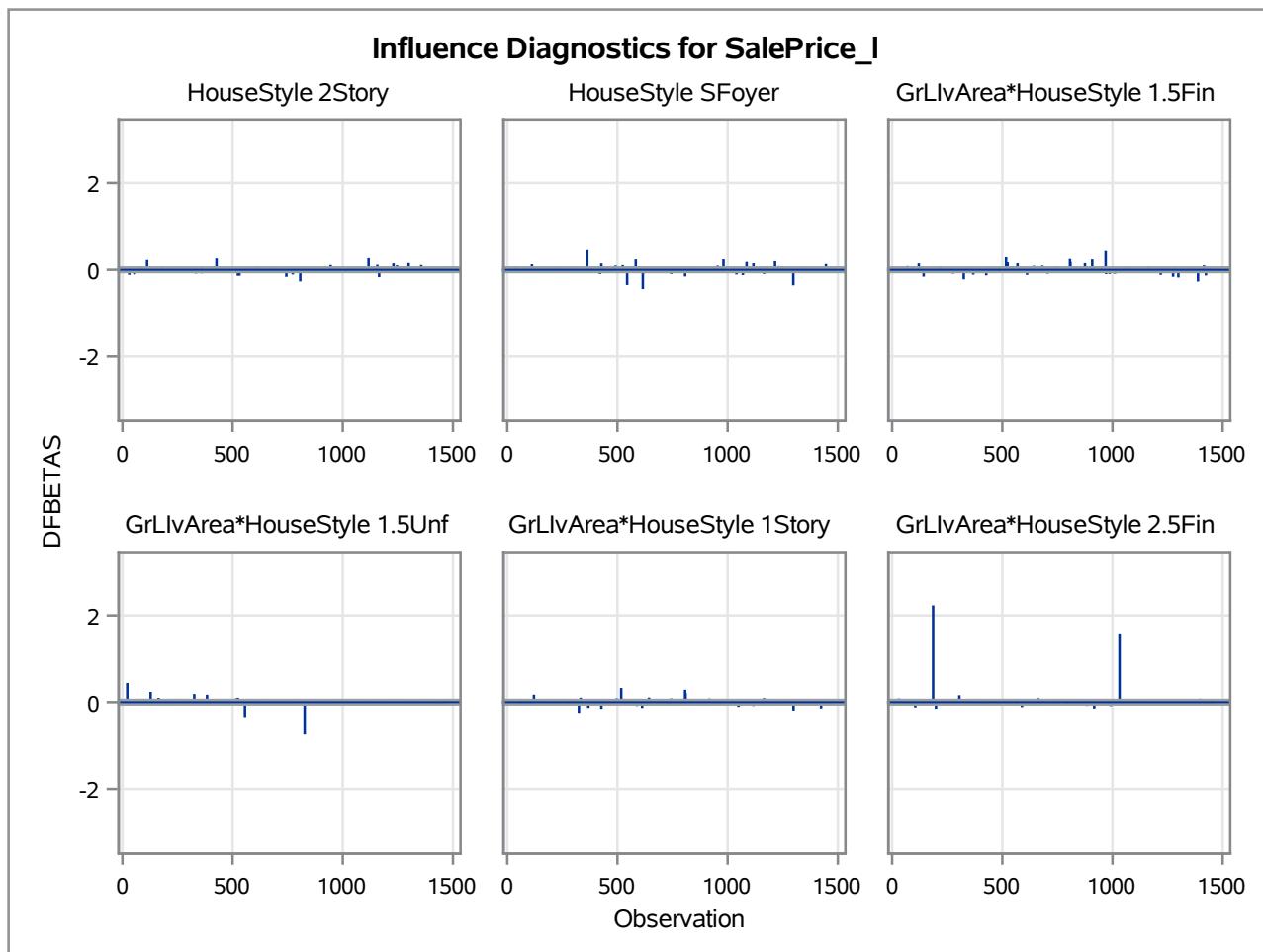
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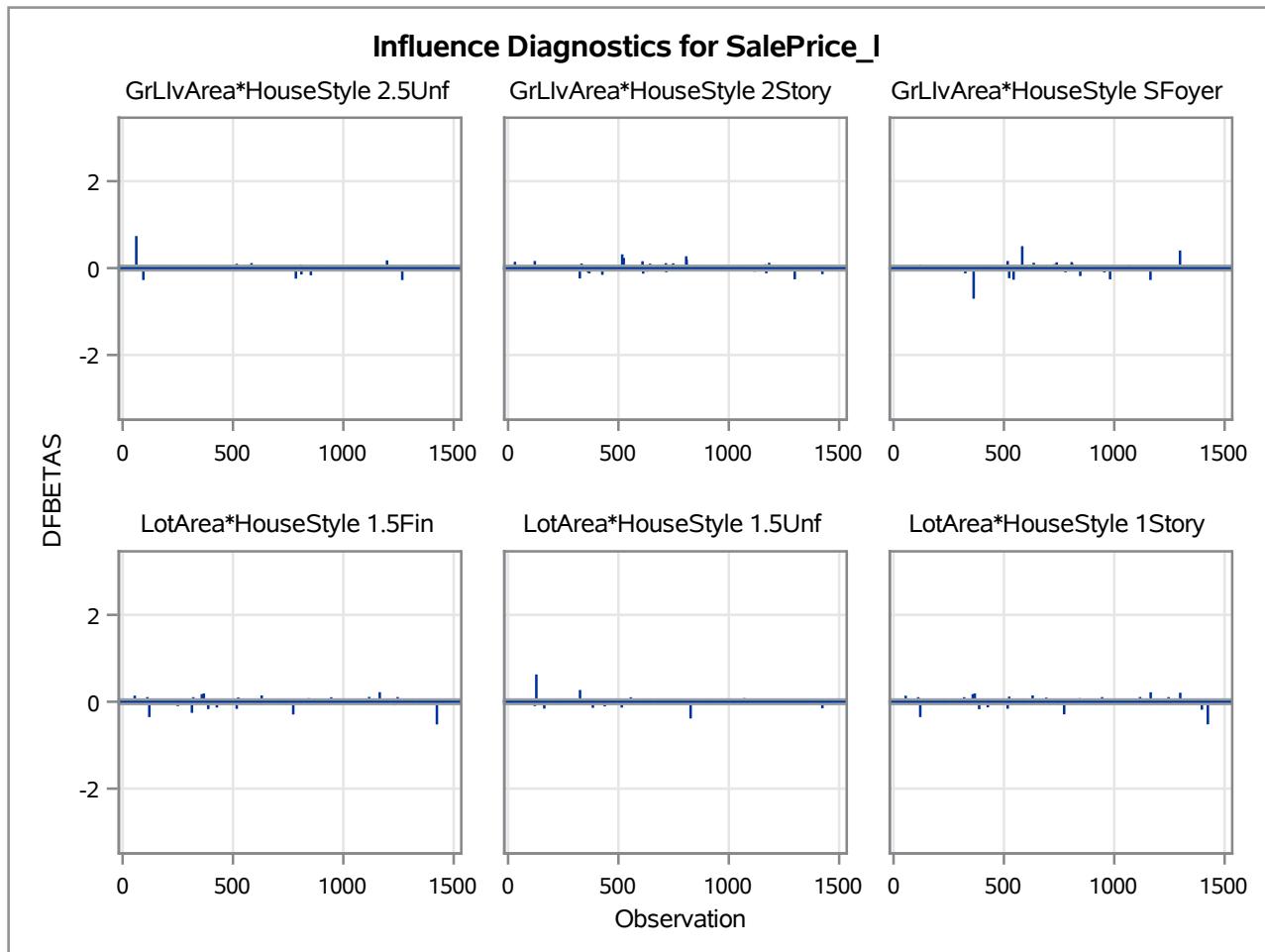
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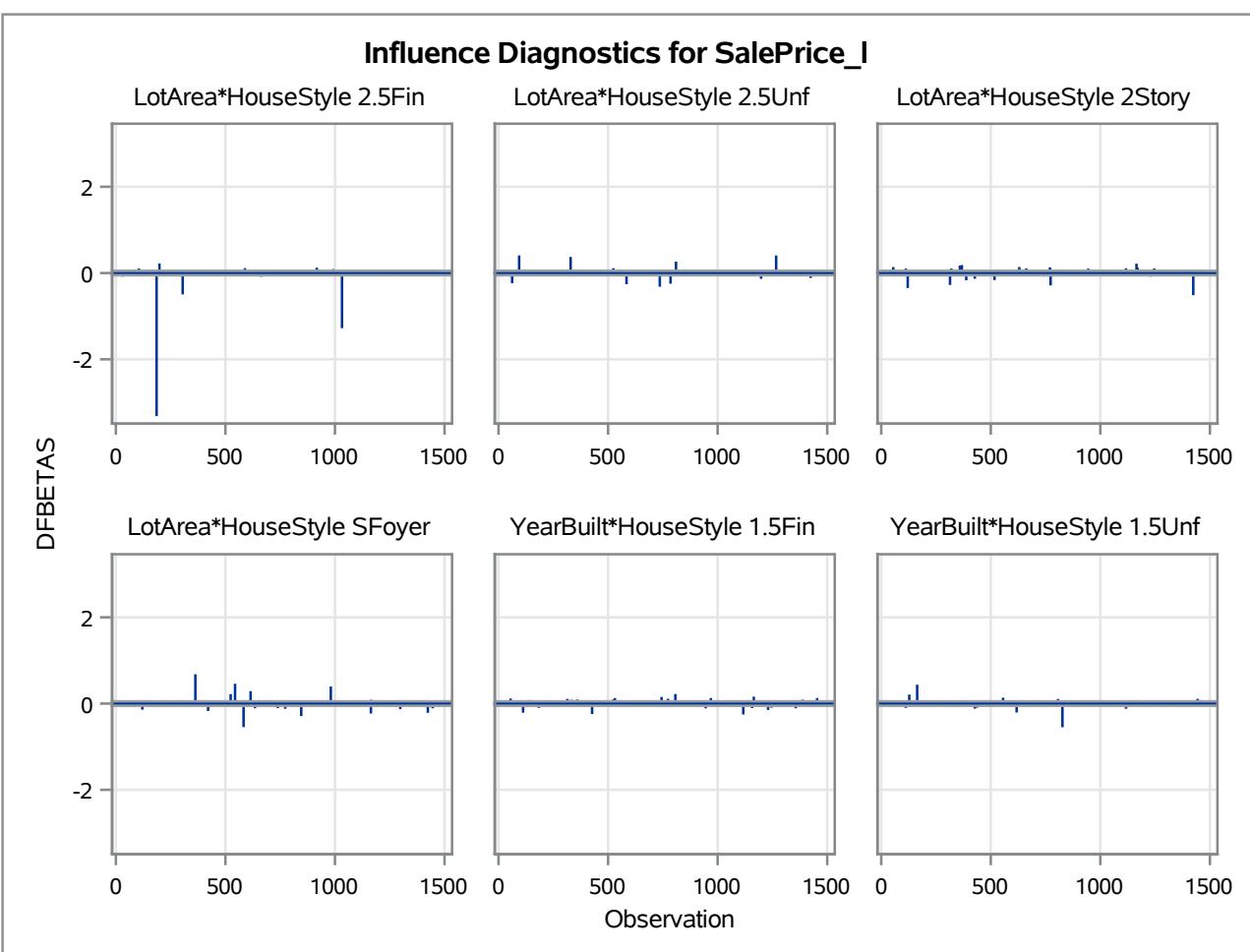
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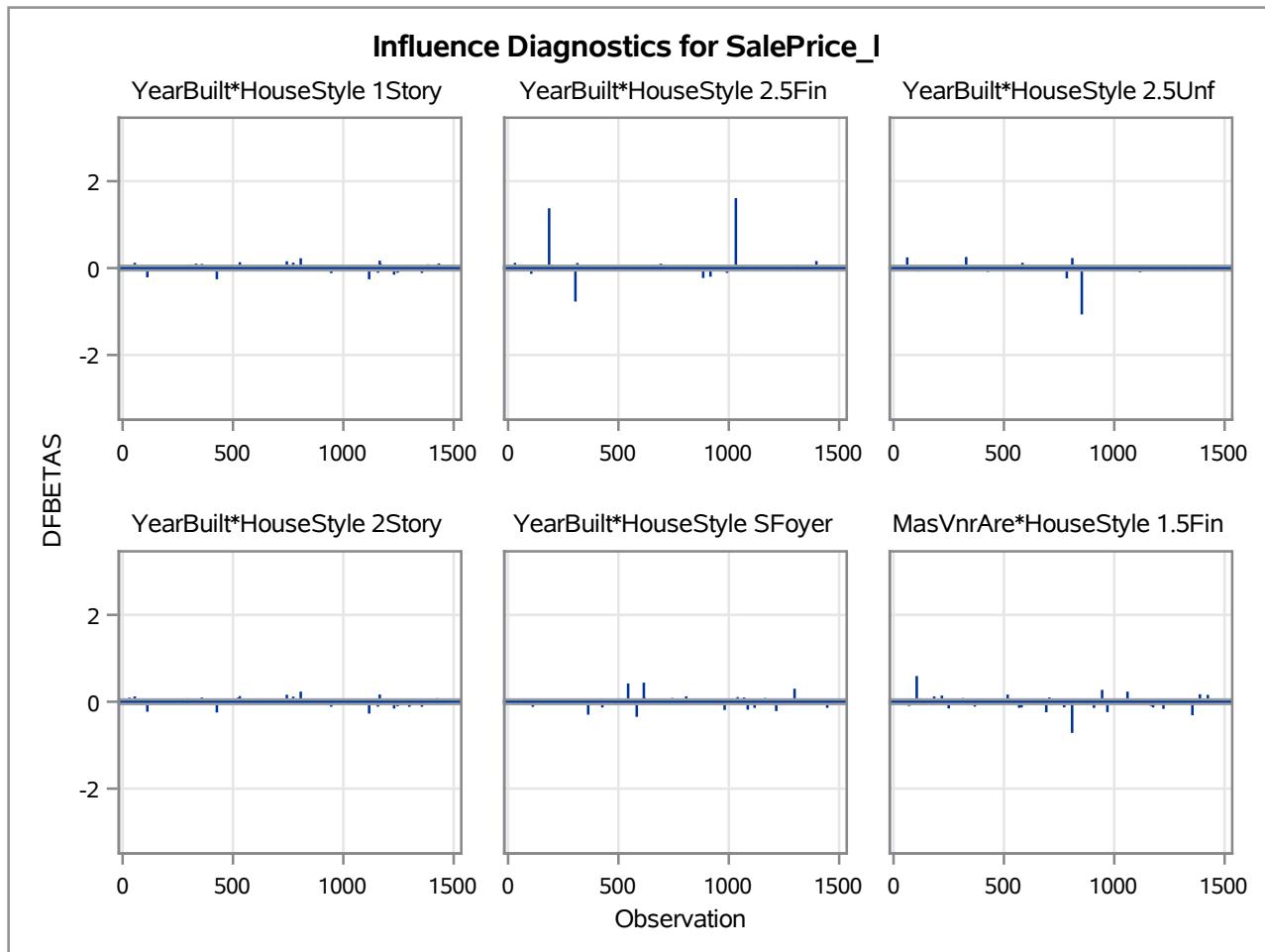
Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

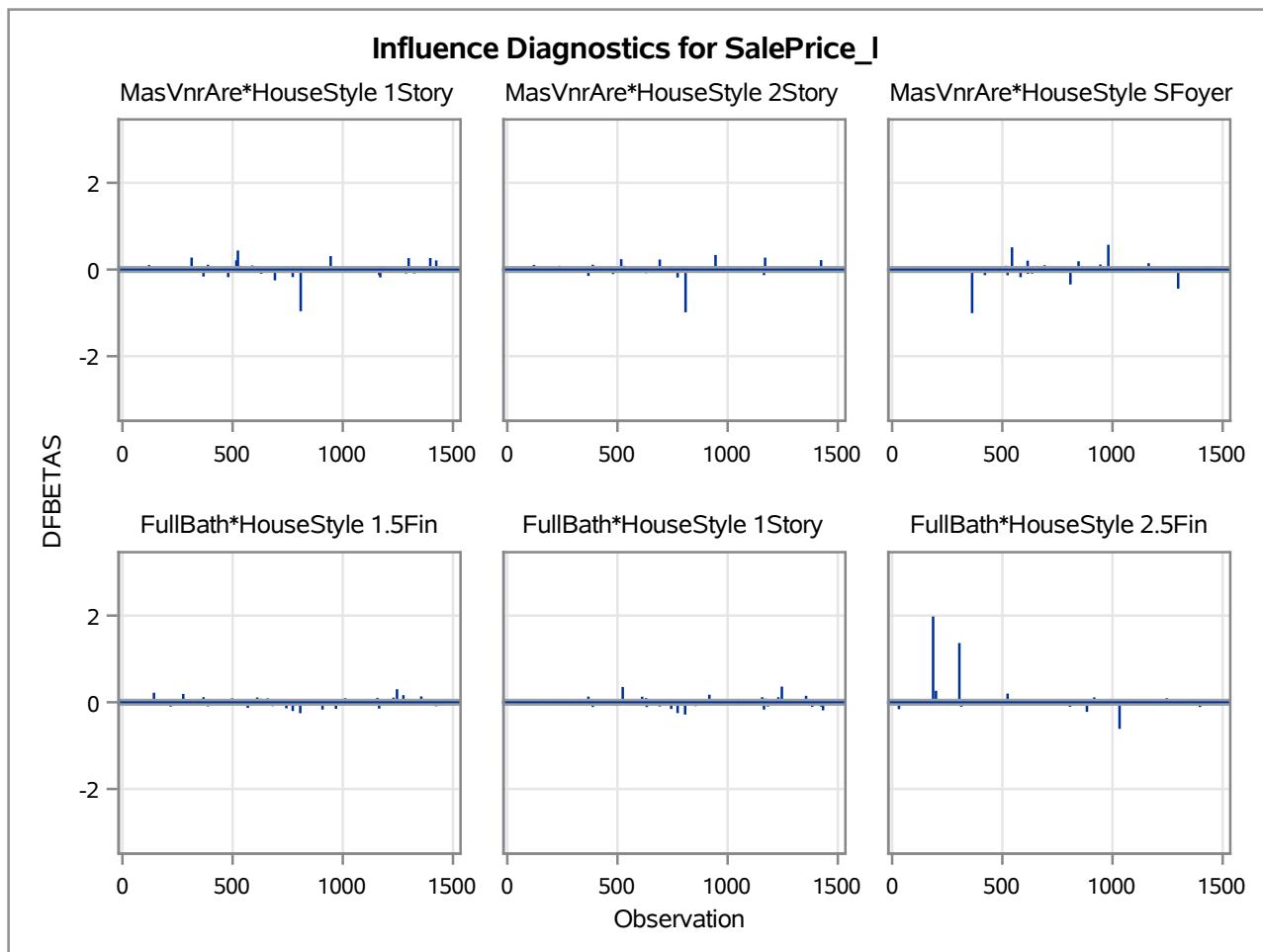
Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I****Influence Diagnostics for SalePrice_I**

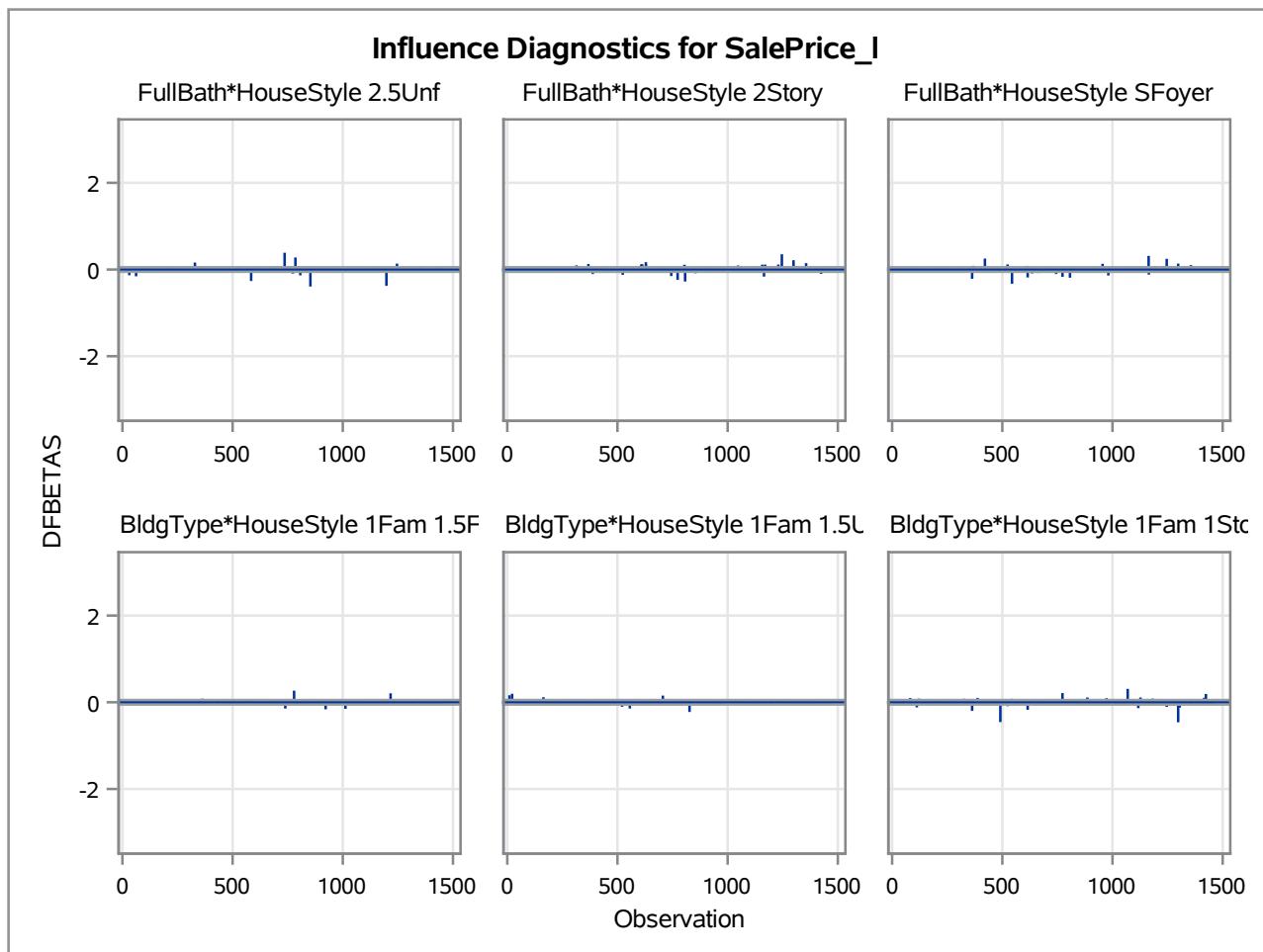
Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I****Influence Diagnostics for SalePrice_I**

Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

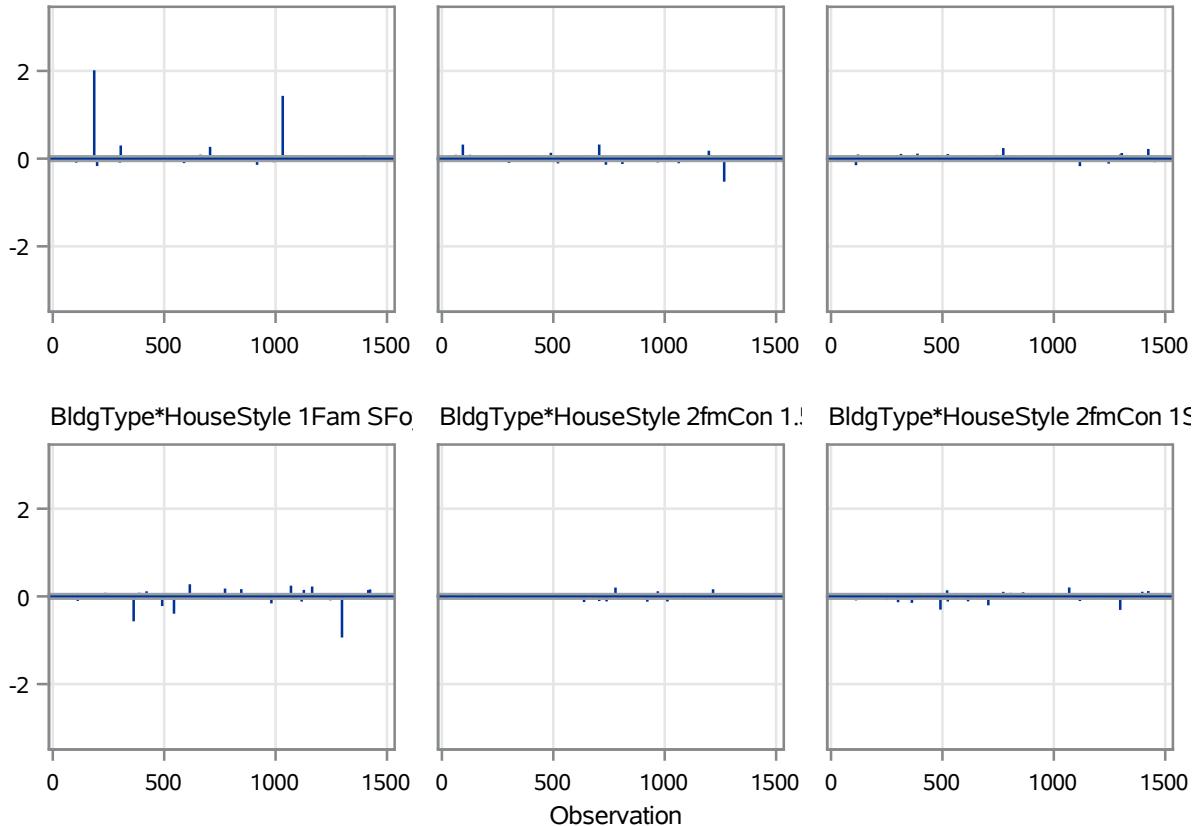
Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

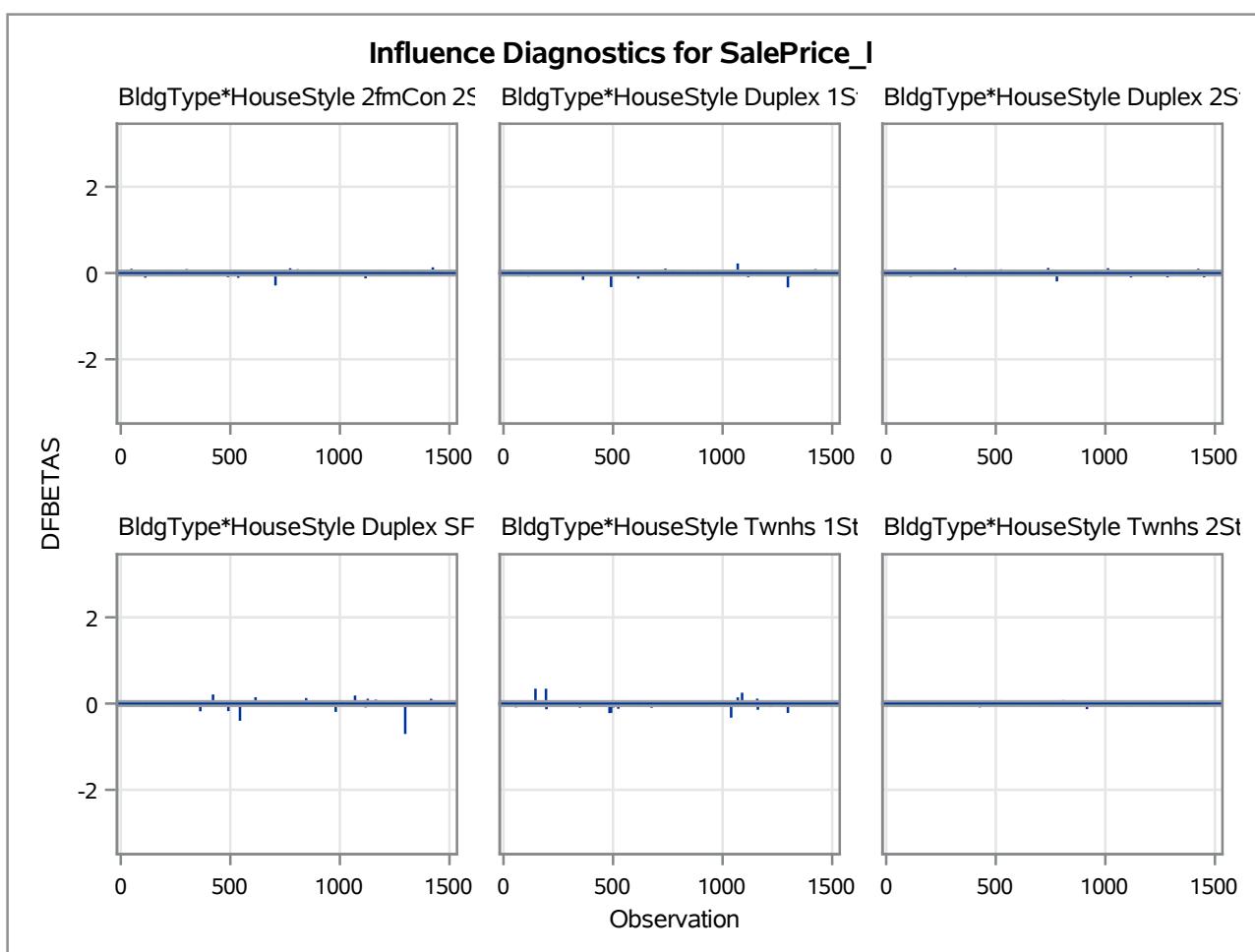
Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

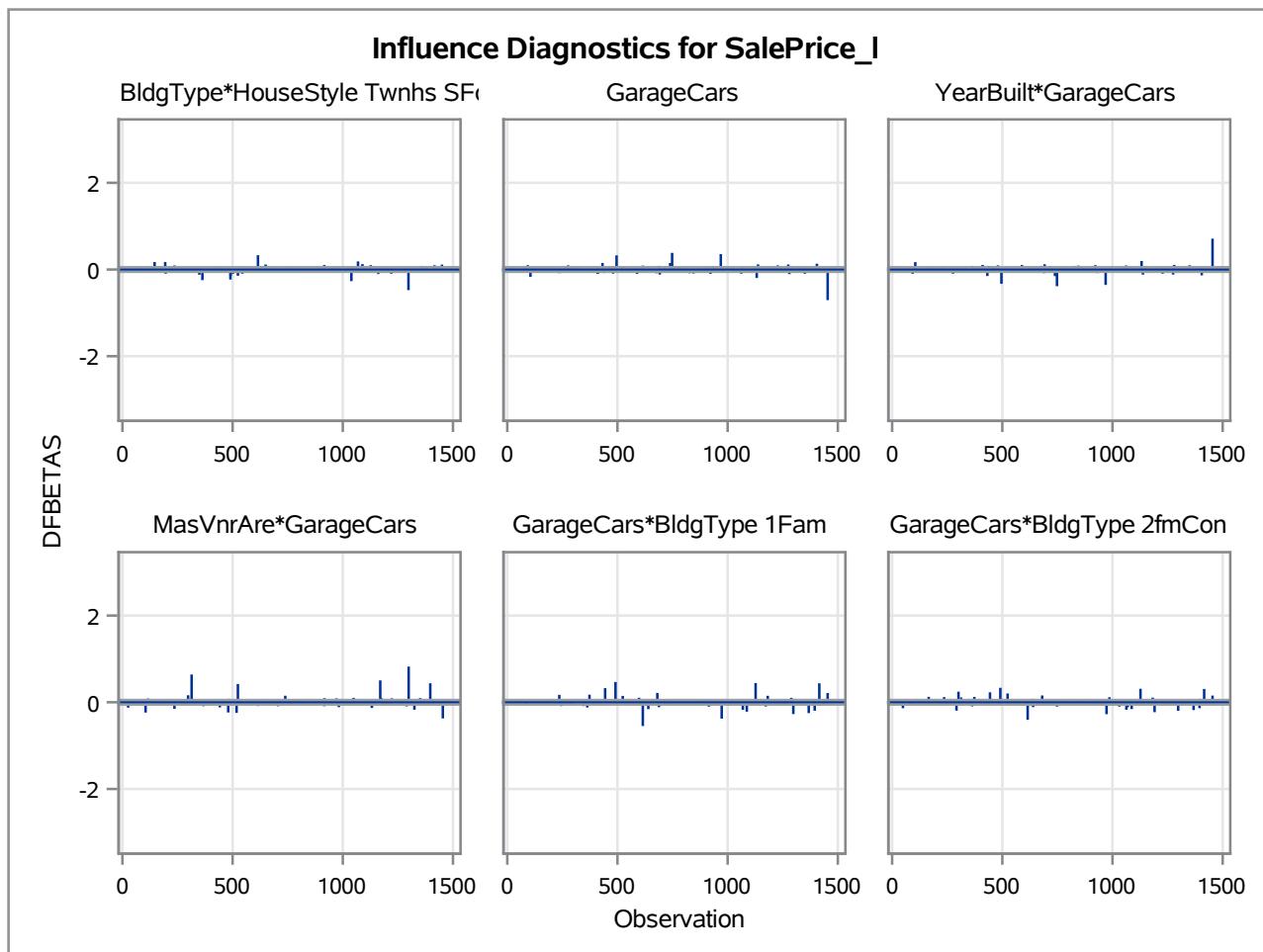
Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I****Influence Diagnostics for SalePrice_I**

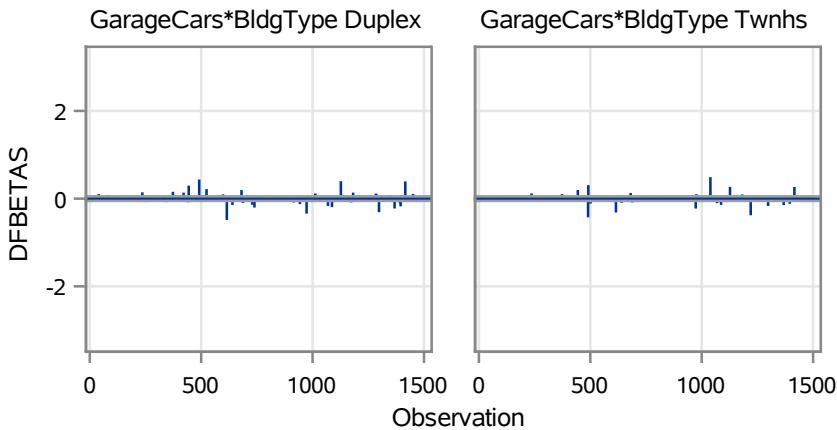
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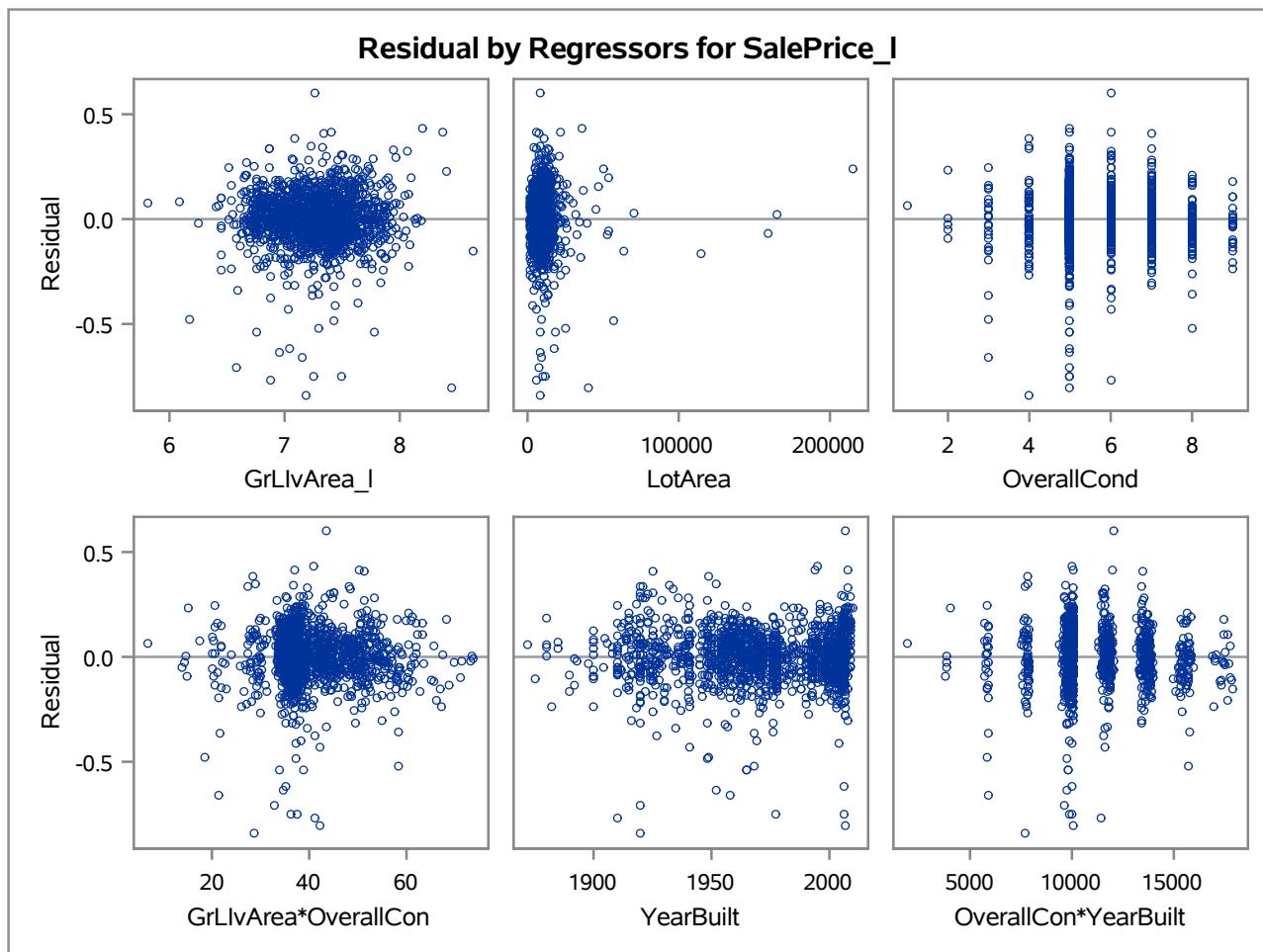
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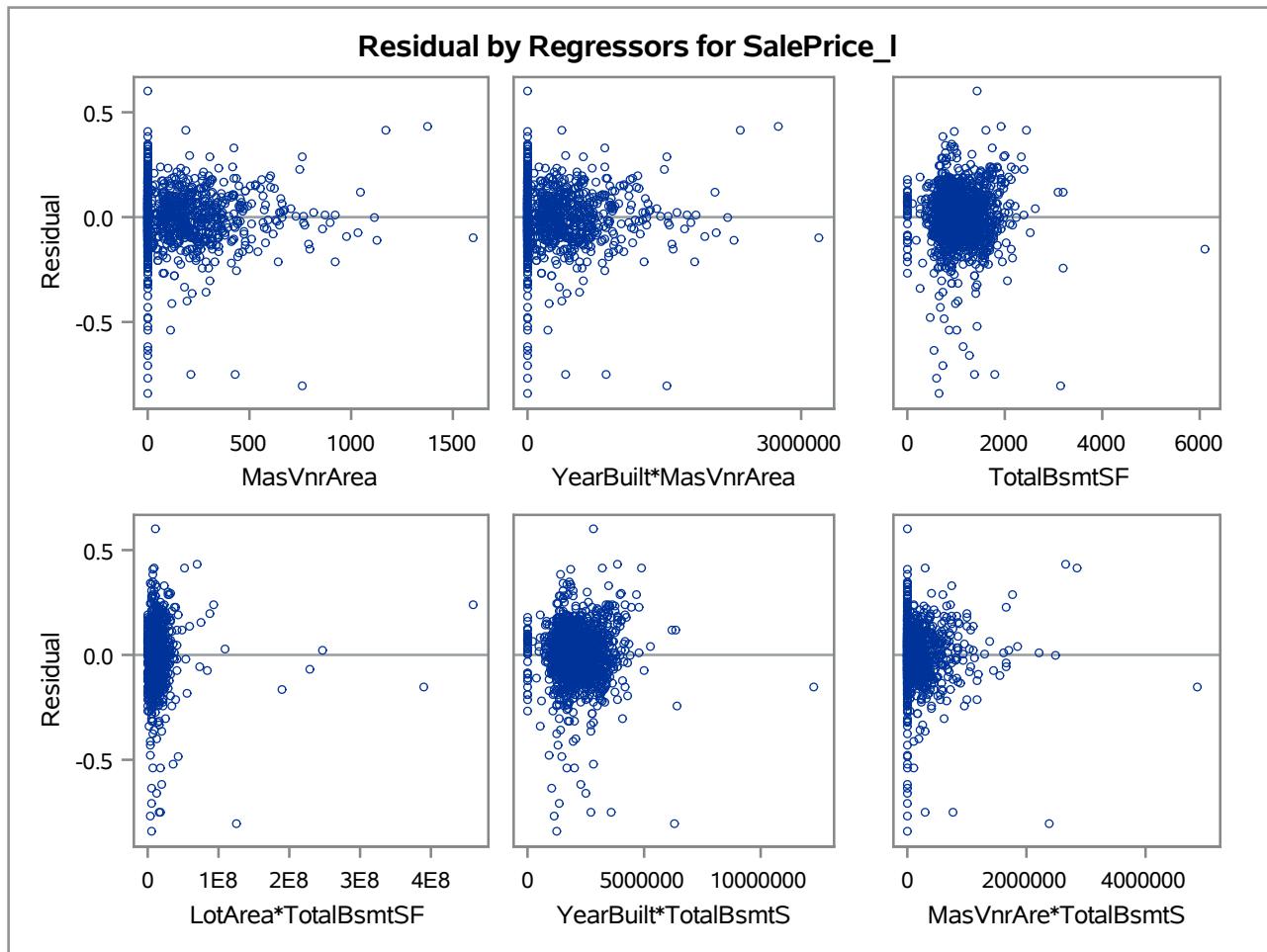


Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I****Influence Diagnostics for SalePrice_I**

Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I****Influence Diagnostics for SalePrice_I**

Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

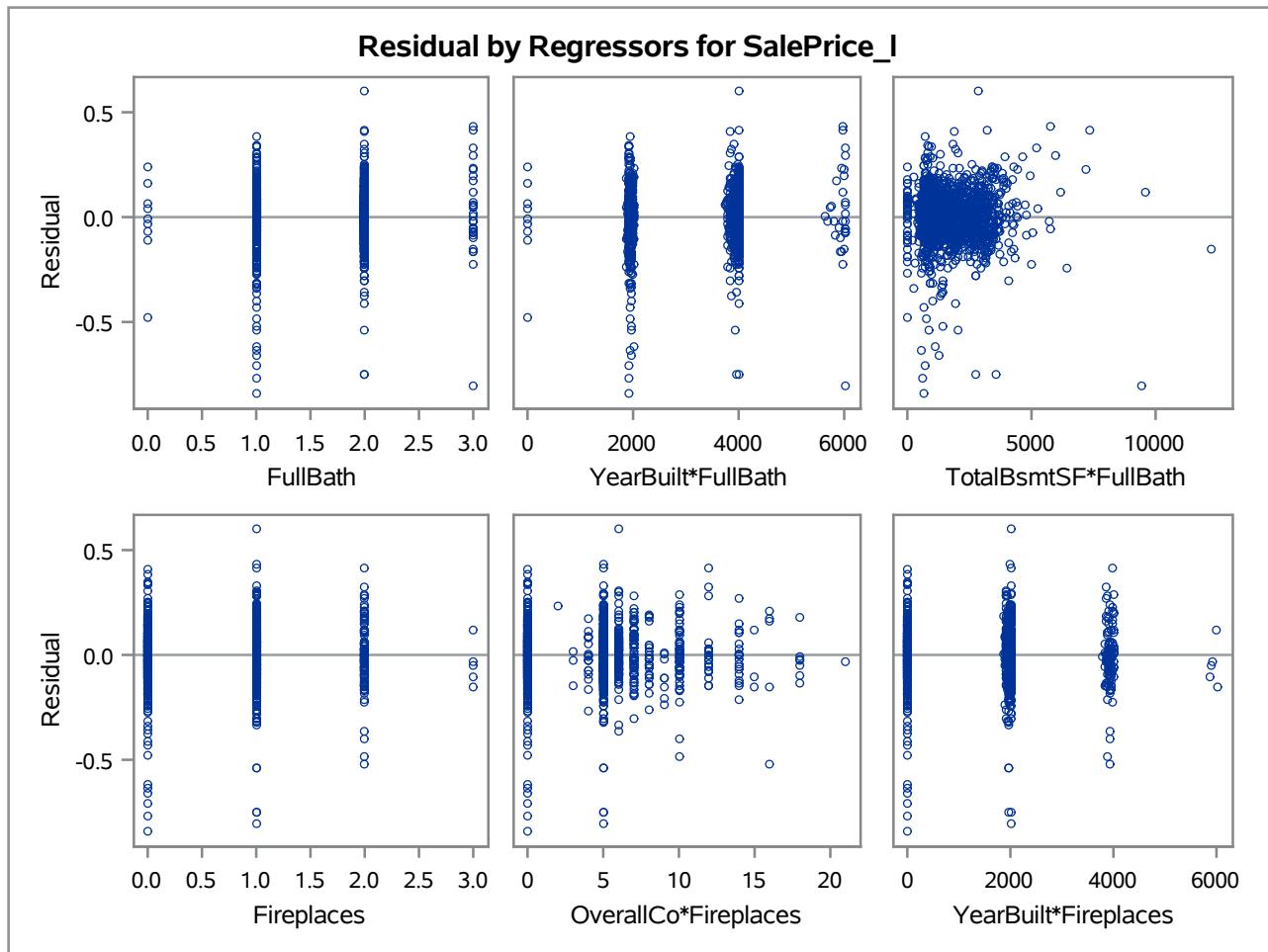
Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Backward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

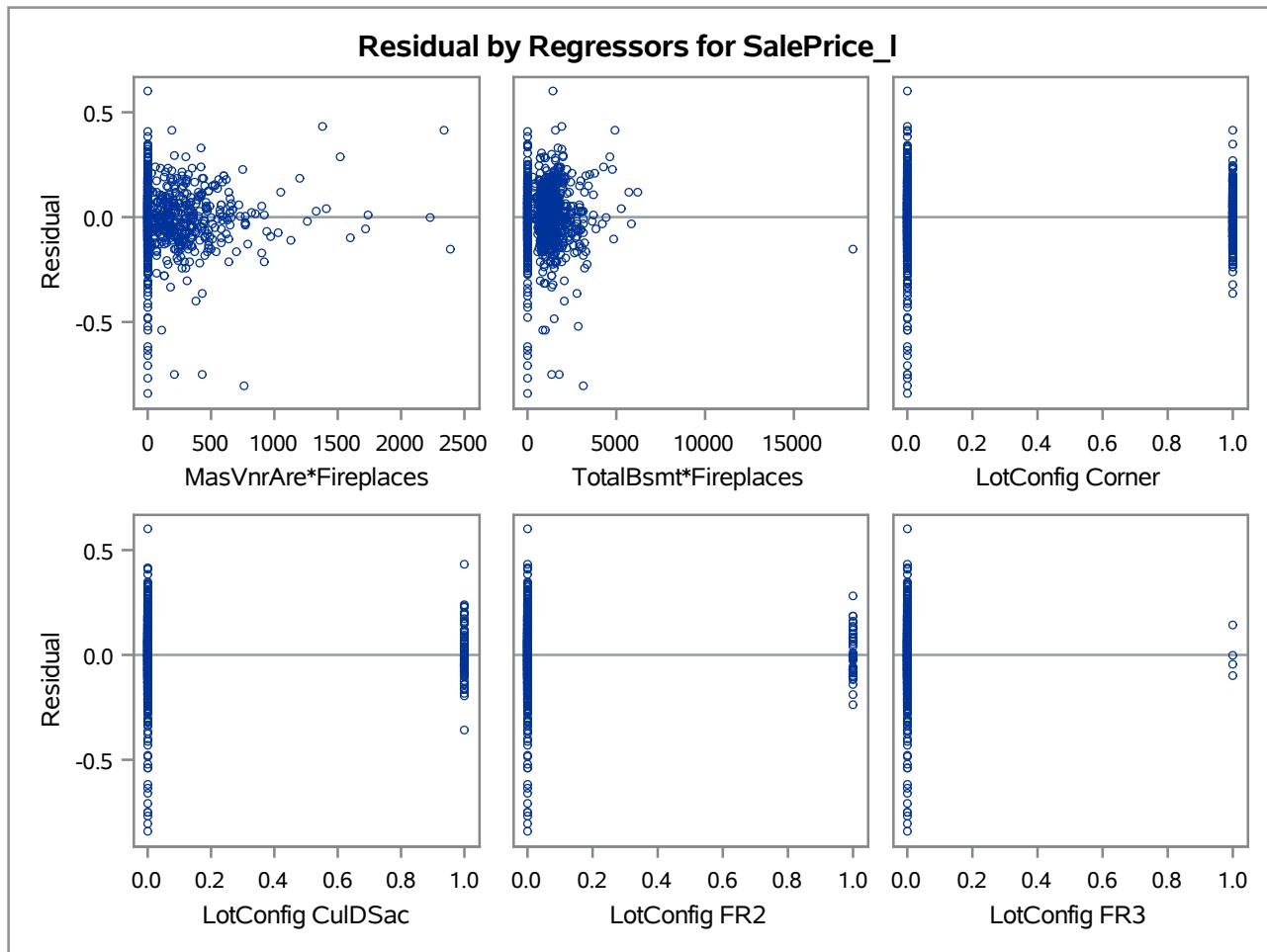


Backward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

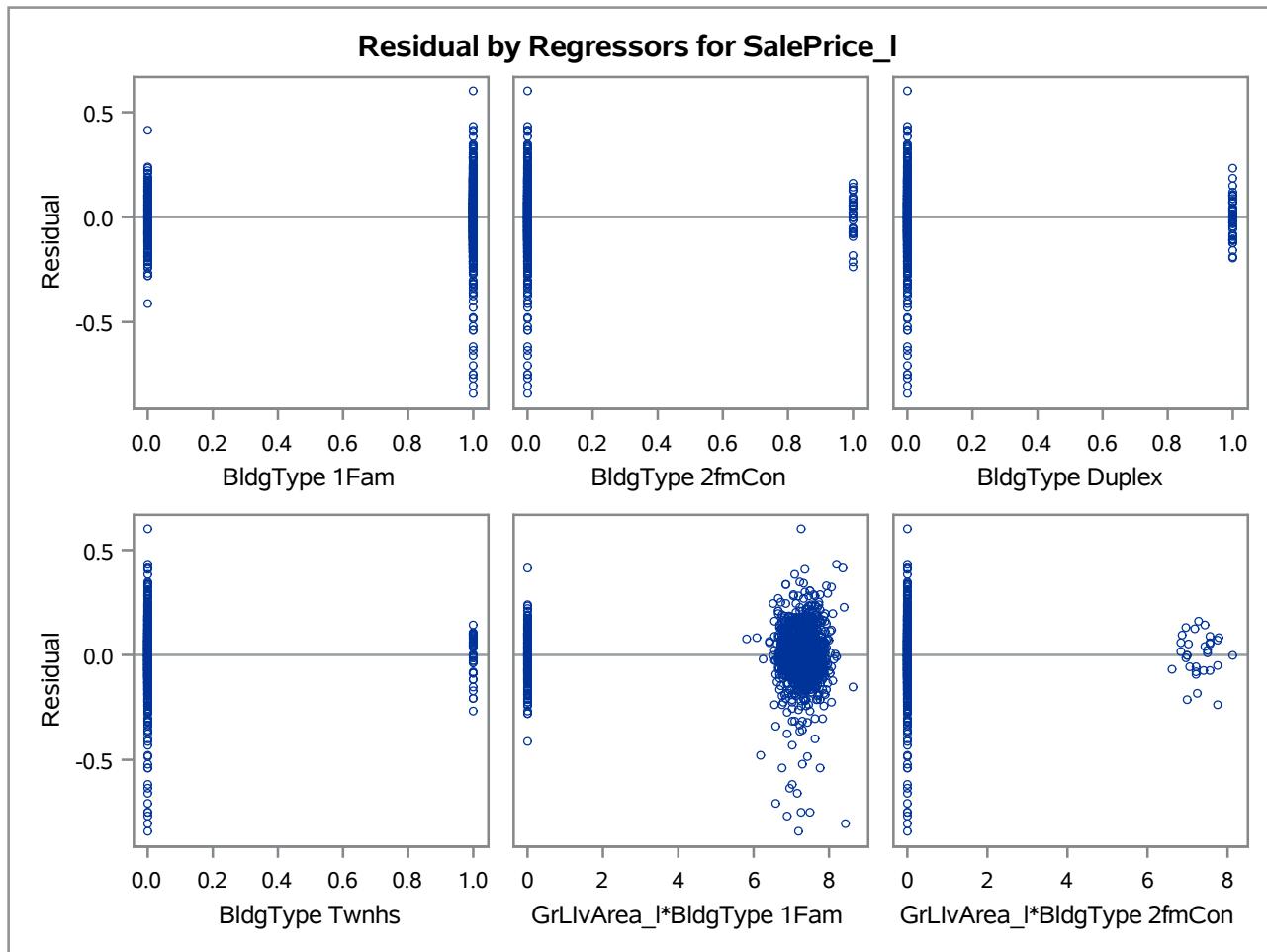


Backward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

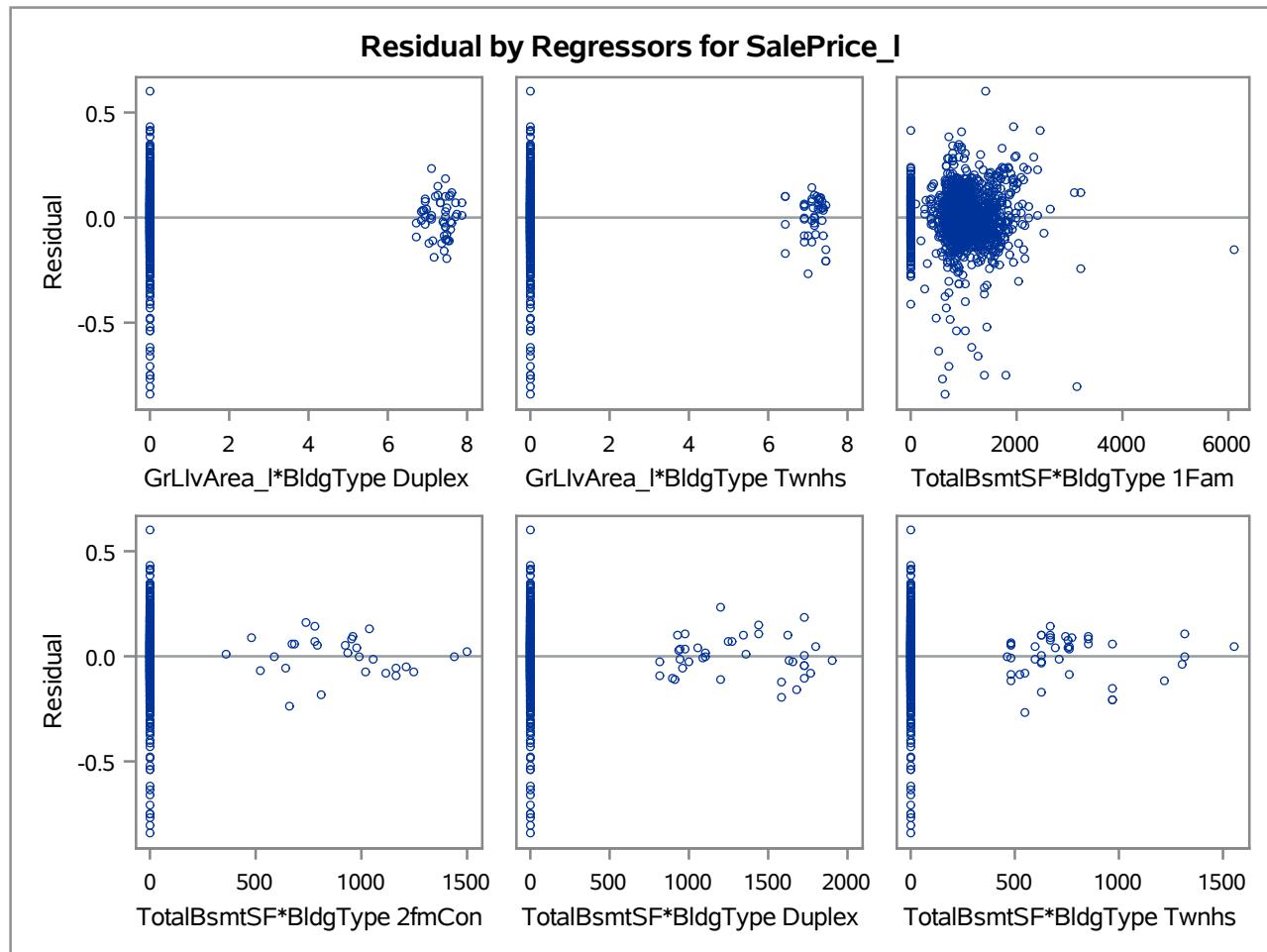


Backward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

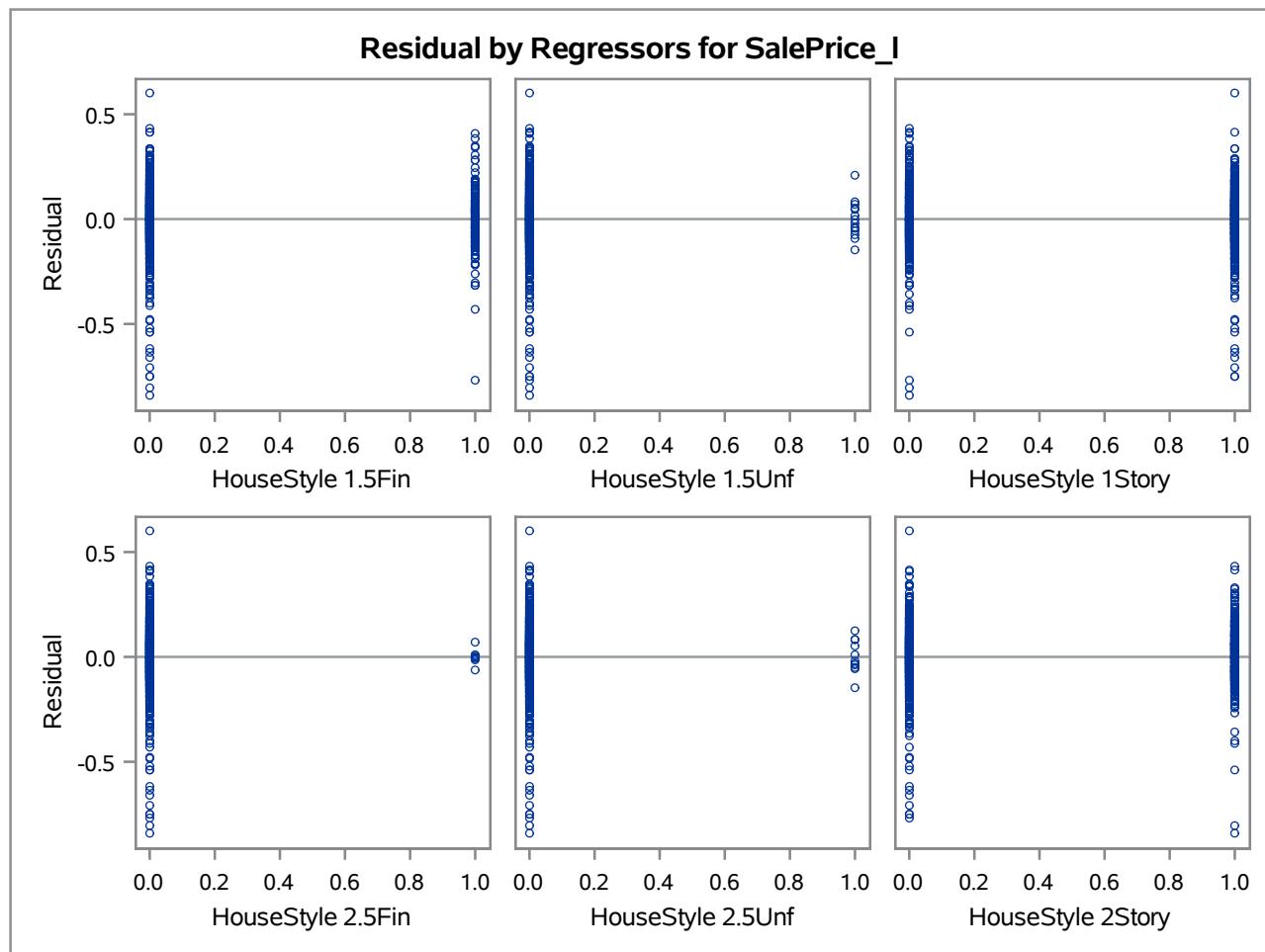


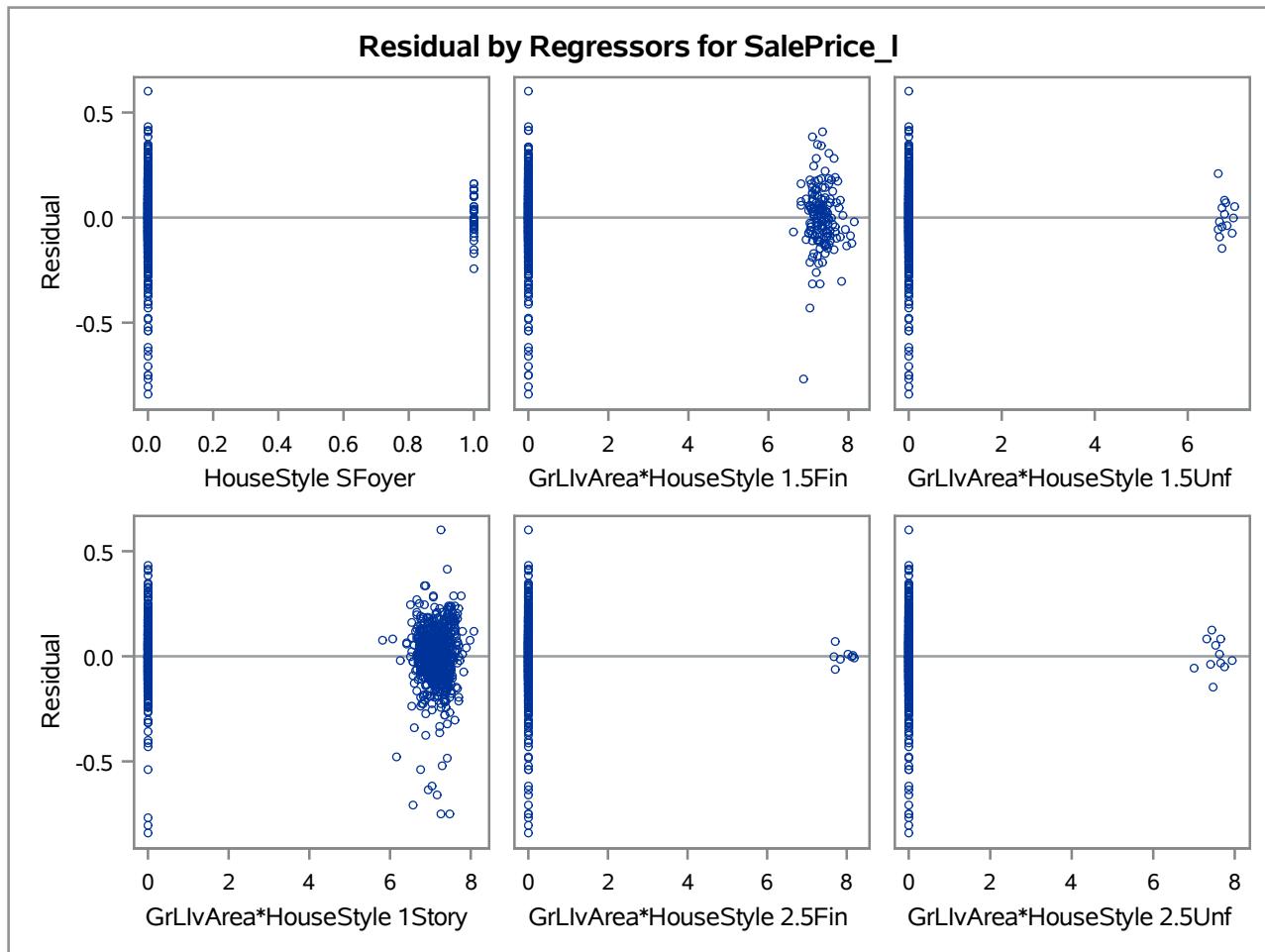
Backward Selection Multiple Linear Regression

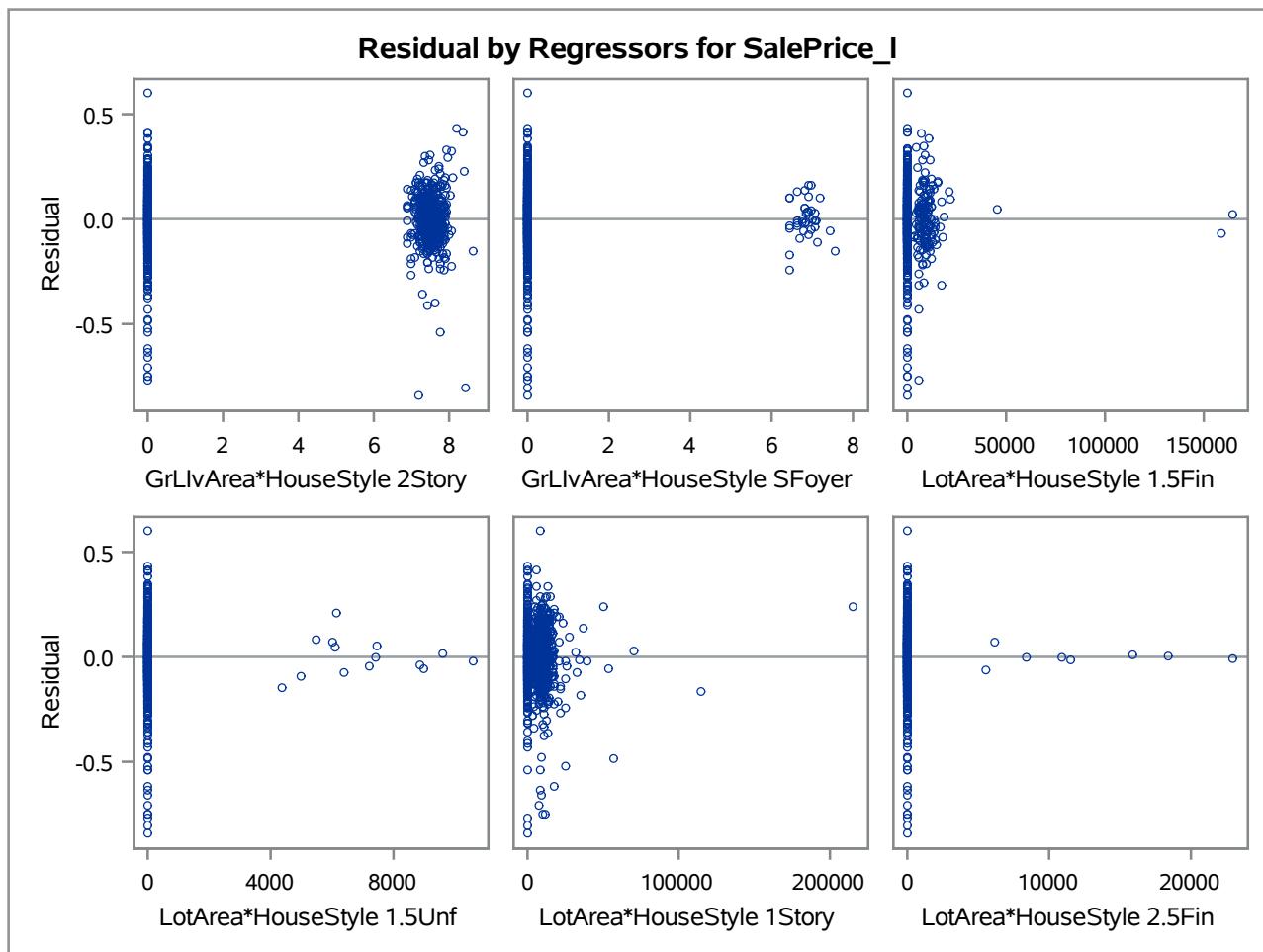
The REG Procedure

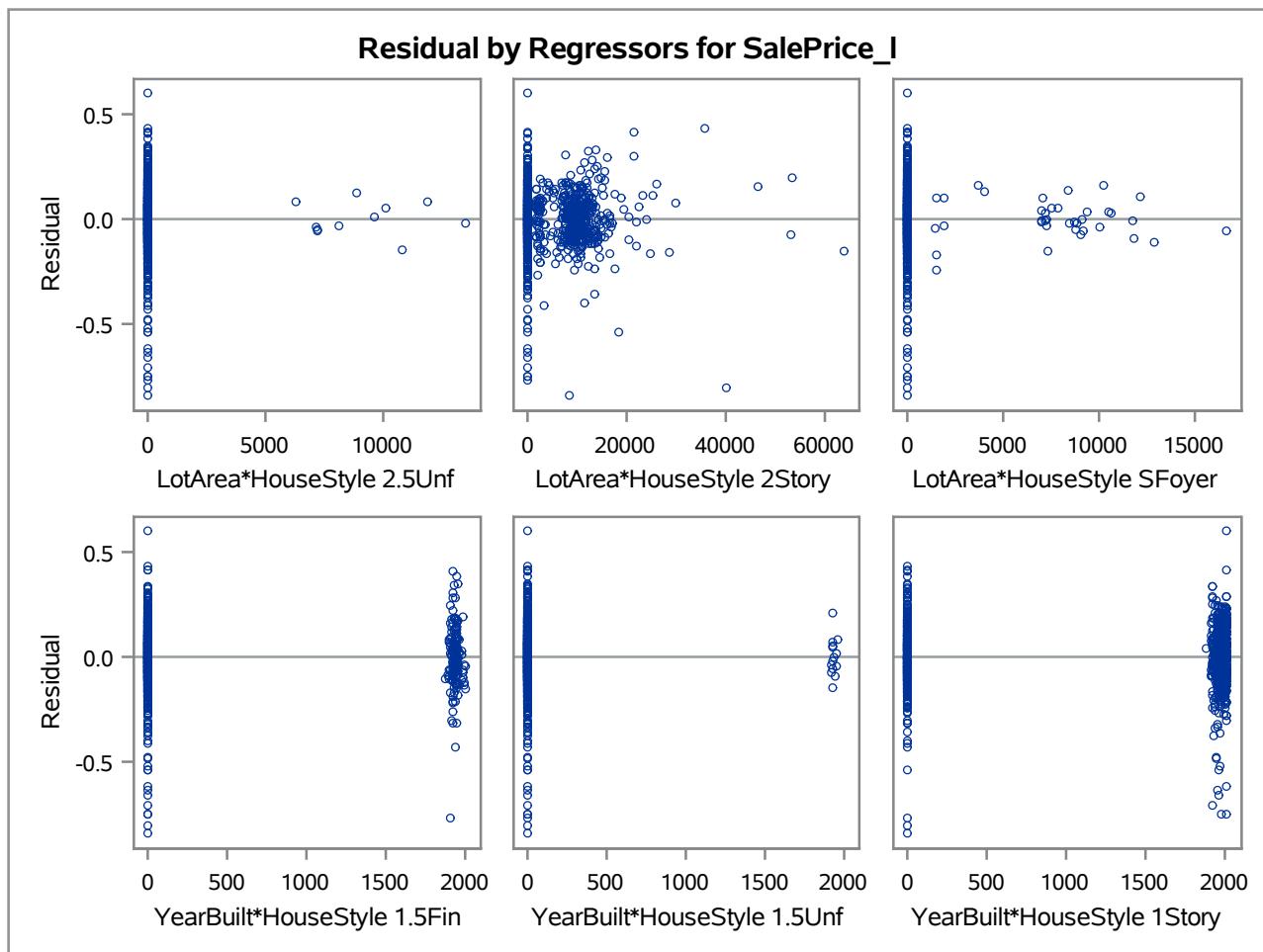
Model: MODEL1

Dependent Variable: SalePrice_I



Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

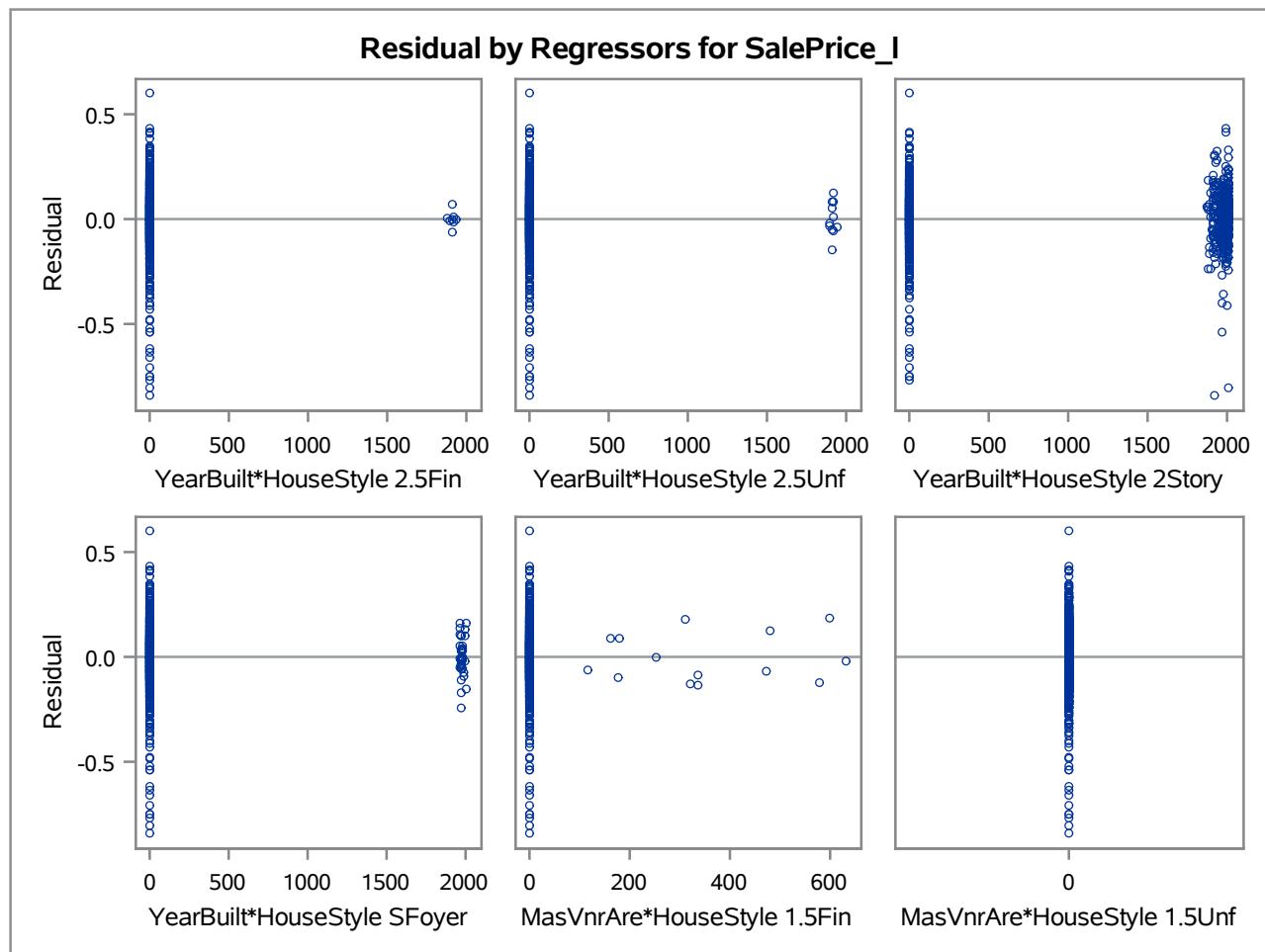
Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Backward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I

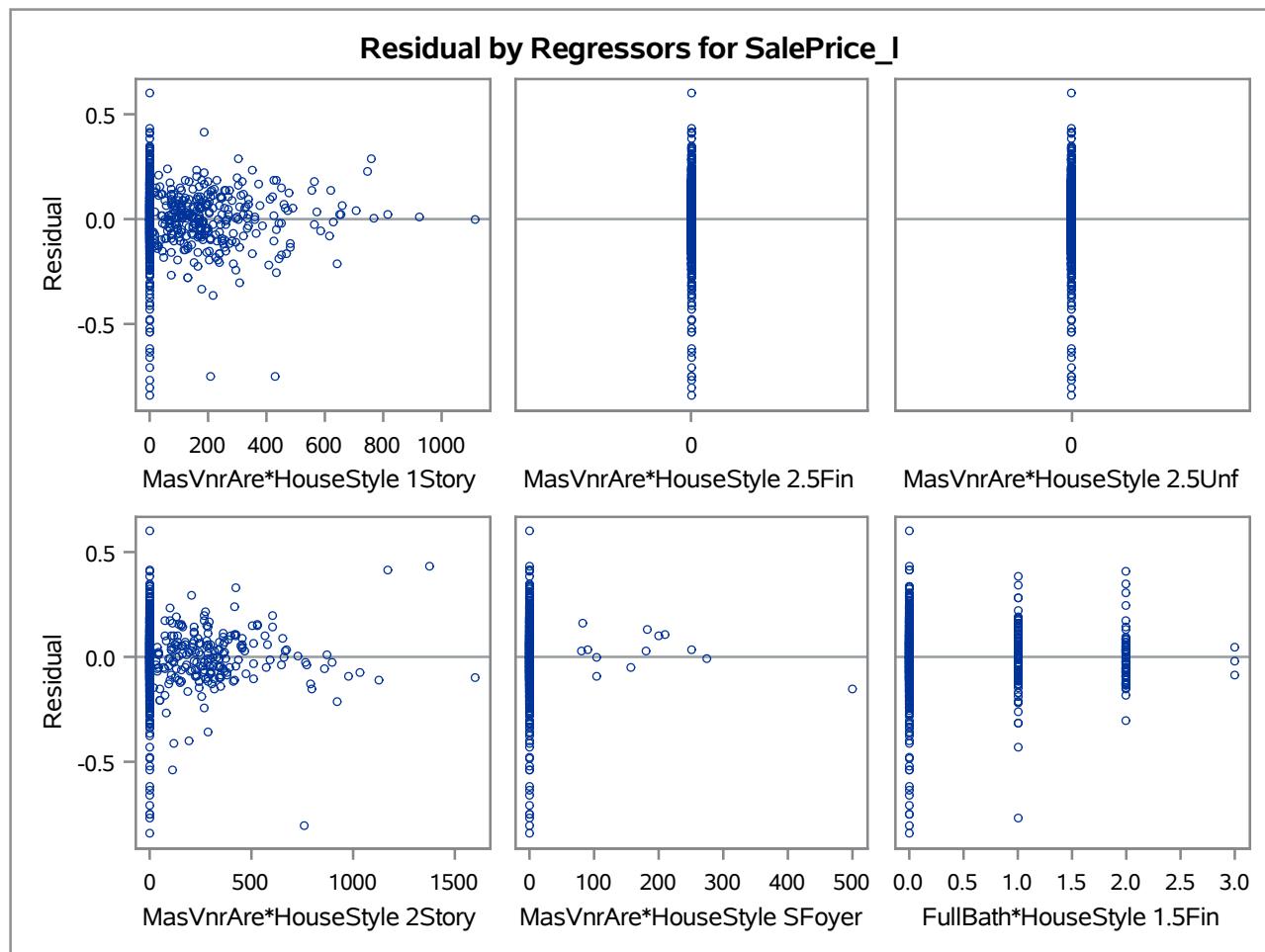


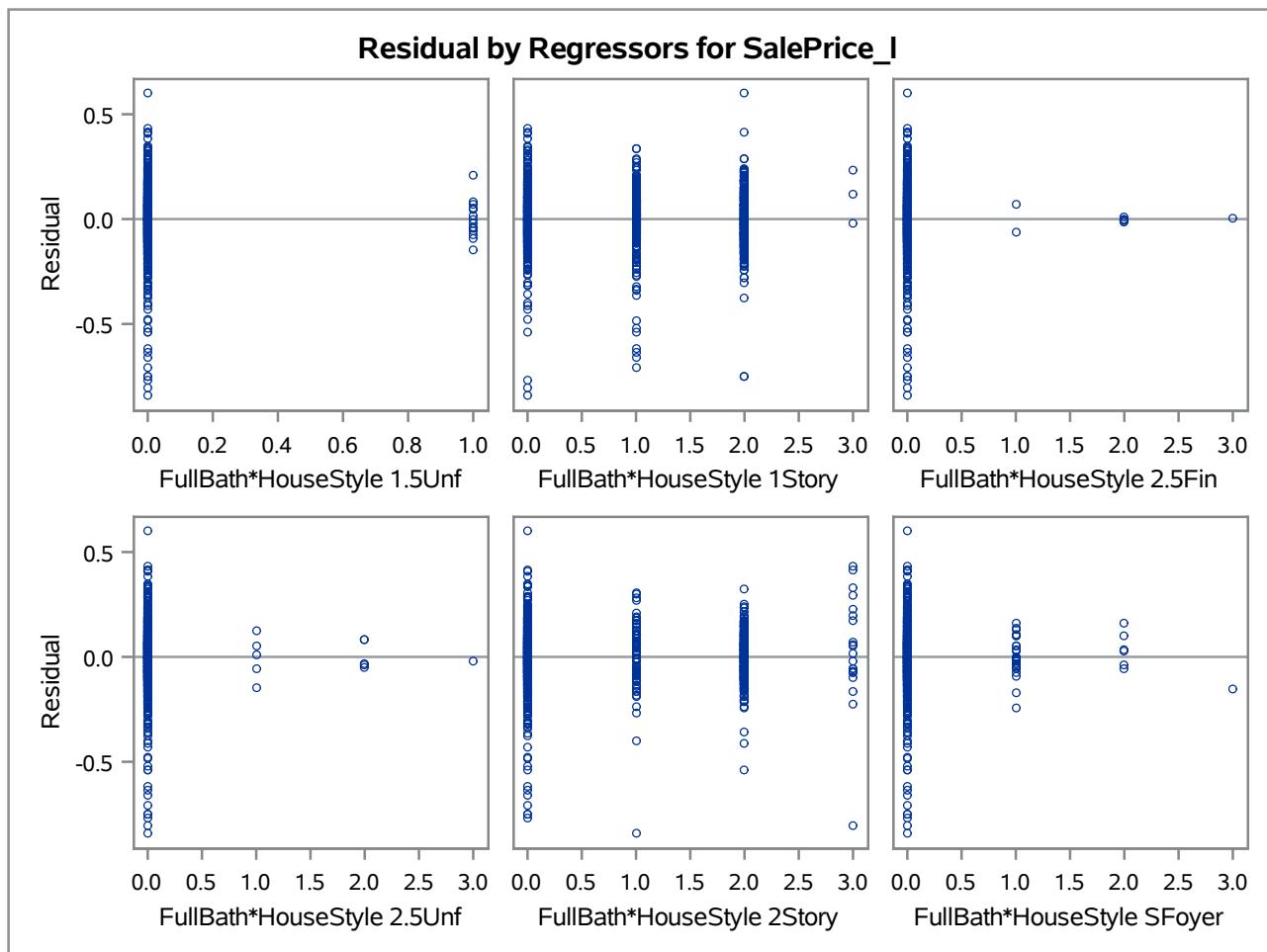
Backward Selection Multiple Linear Regression

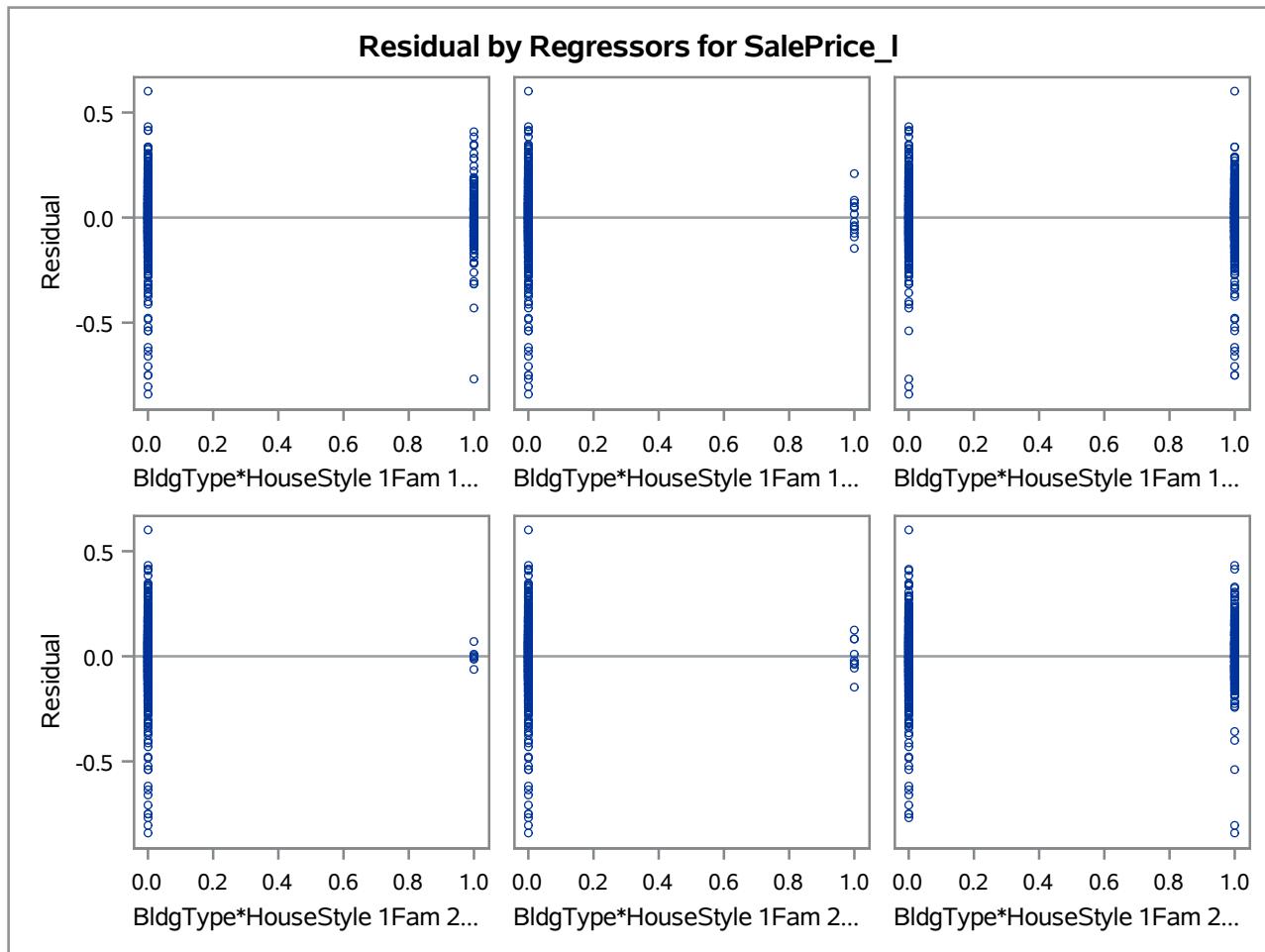
The REG Procedure

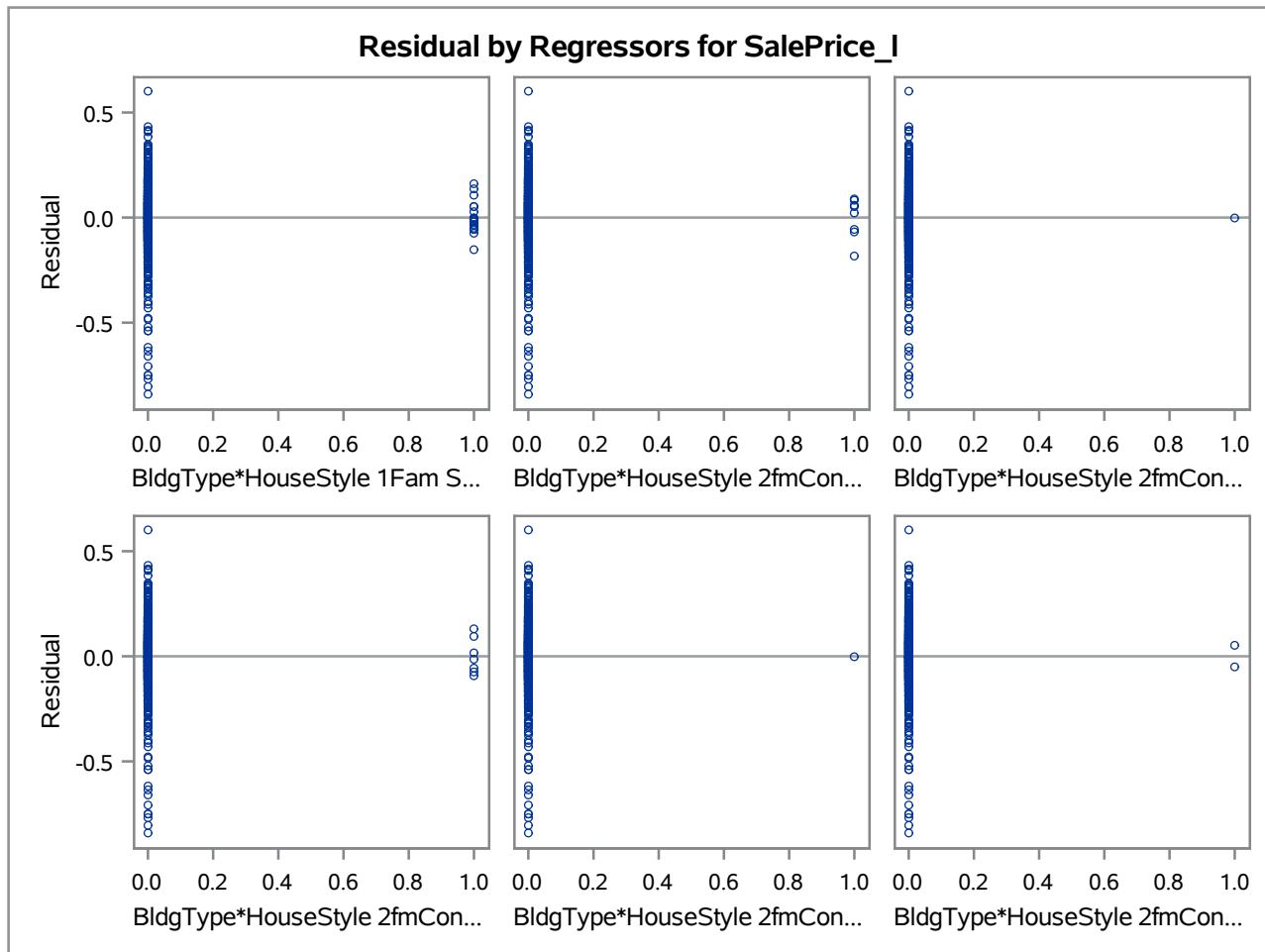
Model: MODEL1

Dependent Variable: SalePrice_I



Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

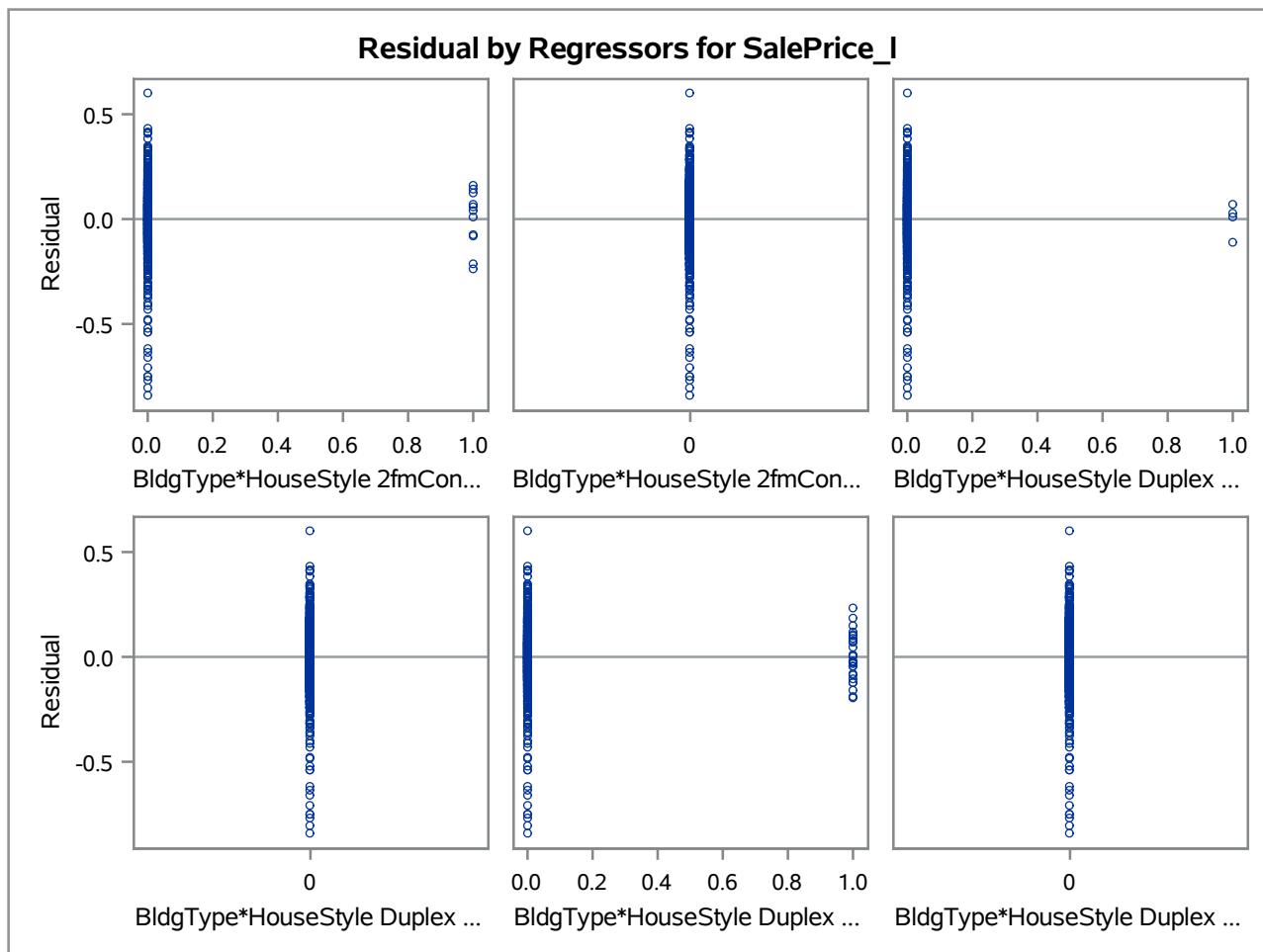
Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

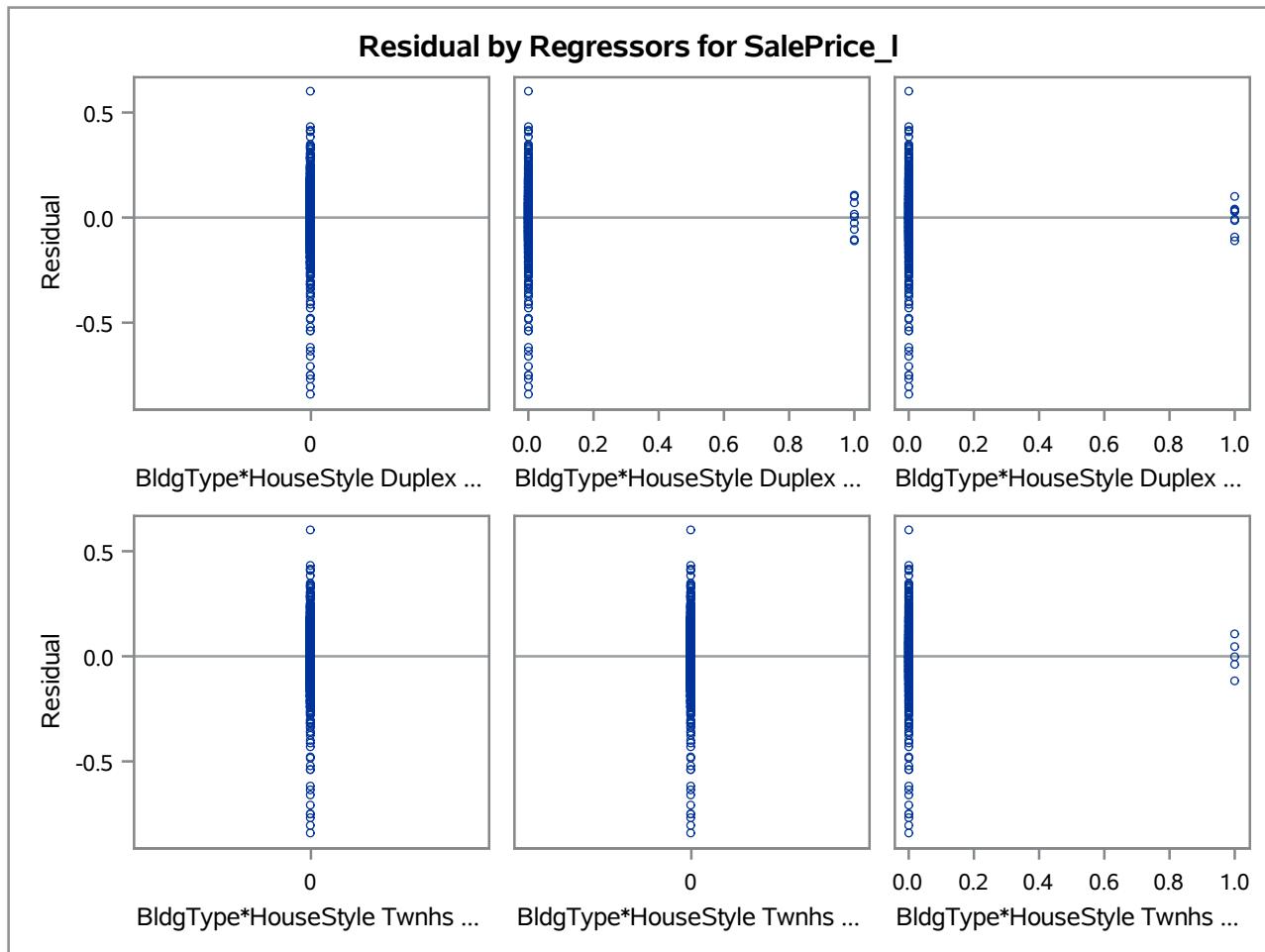
Backward Selection Multiple Linear Regression

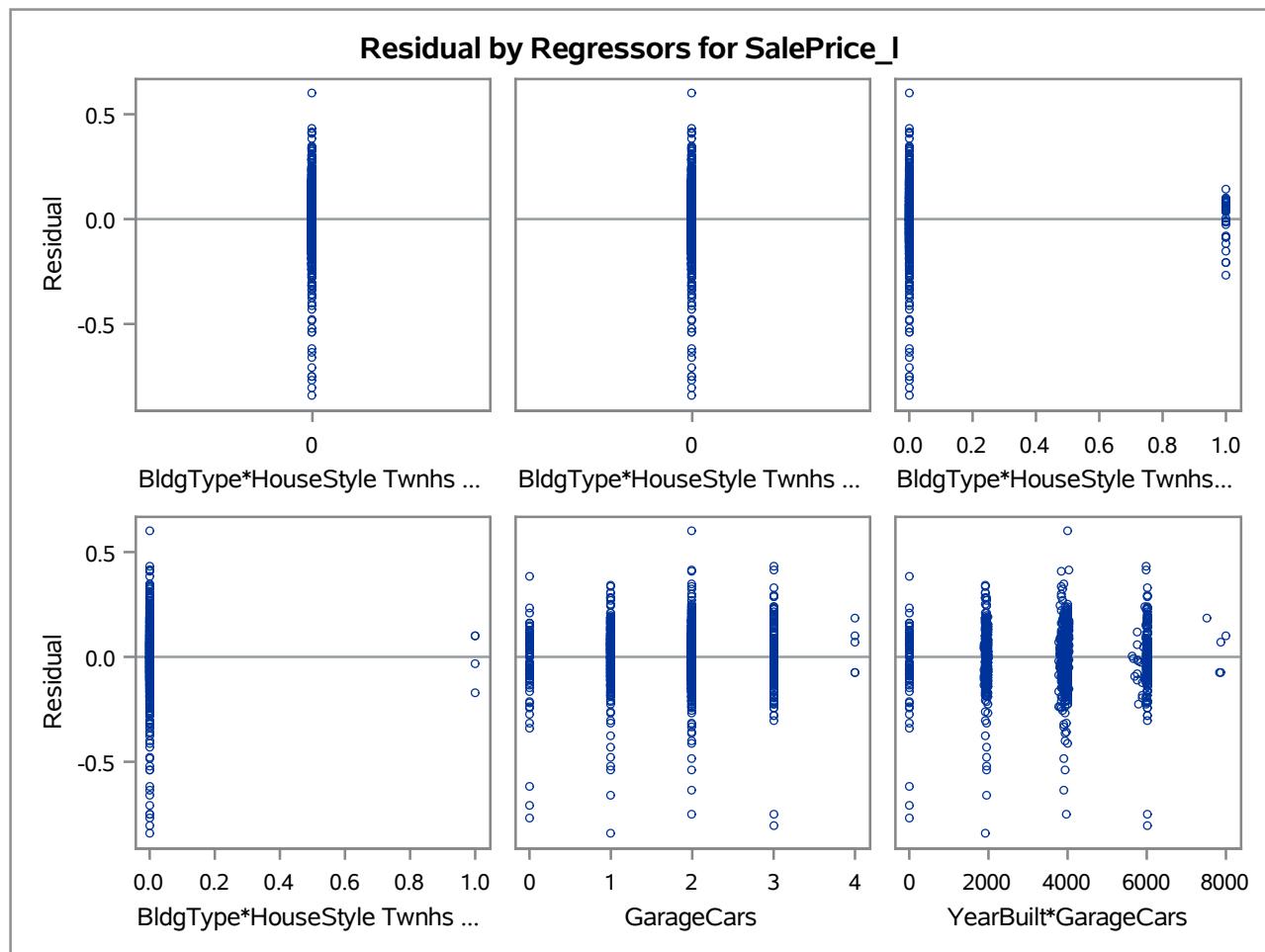
The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I



Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

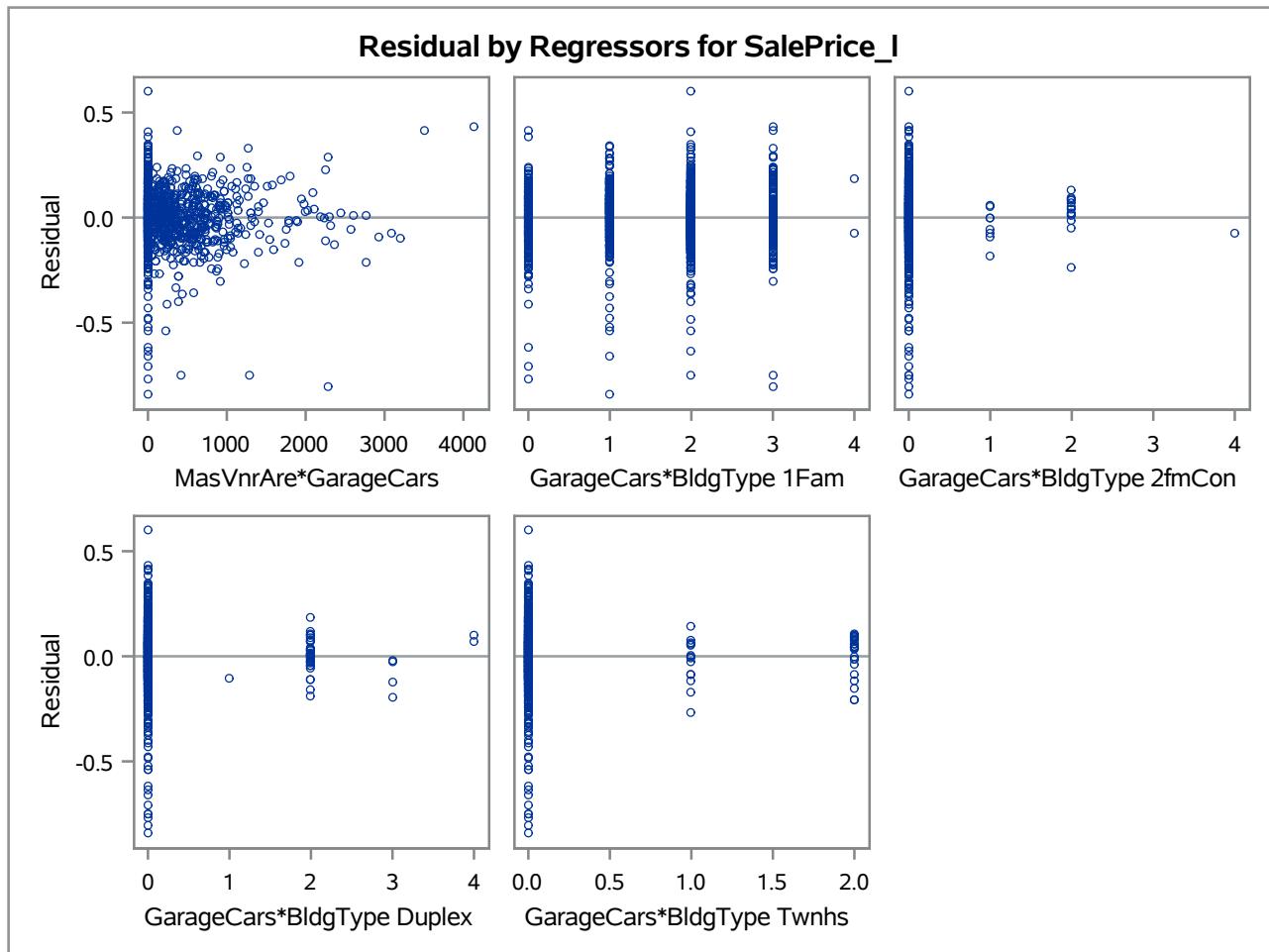
Backward Selection Multiple Linear Regression**The REG Procedure****Model: MODEL1****Dependent Variable: SalePrice_I**

Backward Selection Multiple Linear Regression

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice_I



The MEANS Procedure

Analysis Variable : SalePrice
Median
158538.43

The MEANS Procedure

Analysis Variable : SalePrice
Median
159079.83

The MEANS Procedure

Analysis Variable : SalePrice
Median
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