

Obs	PID	Lot_Area	House_Style	Overall_Qual	Overall_Cond	Year_Built	Heating_QC	Central_Air	Gr_Liv_Area	Bedroom_AbvGr	Fireplaces	Garage_Area	Mo_Sold	Yr_Sold	SalePrice	Baseme
1	0527127150	4920	1Story	8	5	2001	Ex	Y	1338	2	0	582	4	2010	213500	
2	0527145080	5005	1Story	8	5	1992	Ex	Y	1280	2	0	506	1	2010	191500	
3	0527425090	10500	1Story	4	5	1971	TA	Y	864	3	1	0	4	2010	115000	
4	0528228285	3203	1Story	7	5	2006	Ex	Y	1145	2	0	437	1	2010	160000	
5	0528250100	7750	SLvl	7	5	2000	Ex	Y	1430	3	1	400	4	2010	180000	
6	0531452050	7175	1Story	6	5	1984	TA	Y	752	2	0	264	2	2010	125000	
7	0533253210	3880	1Story	8	6	1978	TA	Y	1226	1	1	484	1	2010	206000	
8	0534401110	9900	1Story	5	5	1966	Gd	Y	1209	3	0	504	4	2010	159000	
9	0534403410	14112	SLvl	5	7	1964	TA	Y	1152	3	1	484	4	2010	180500	
10	0534430080	9717	1Story	5	6	1950	Gd	Y	1078	2	0	240	4	2010	142125	

The CONTENTS Procedure

Data Set Name	WORK.AMES	Observations	300
Member Type	DATA	Variables	32
Engine	V9	Indexes	0
Created	07/06/2024 23:21:17	Observation Length	304
Last Modified	07/06/2024 23:21:17	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	1
First Data Page	1
Max Obs per Page	430
Obs in First Data Page	300
Number of Data Set Repairs	0
Filename	/saswork/SAS_workCC6D0001073D_odaws01-usw2-2.oda.sas.com/SAS_workC73A0001073D_odaws01-usw2-2.oda.sas.com/ames.sas7bdat
Release Created	9.0401M7
Host Created	Linux
Inode Number	1275068677
Access Permission	rw-r--r--
Owner Name	u63922045
File Size	256KB
File Size (bytes)	262144

Alphabetic List of Variables and Attributes						
#	Variable	Type	Len	Format	Informat	Label
21	Age_Sold	Num	8	BEST12.	BEST12.	Age of house when sold, in years
16	Basement_Area	Num	8	BEST12.	BEST12.	Basement area in square feet
10	Bedroom_AbvGr	Num	8	BEST12.	BEST12.	Bedrooms above grade
31	Bonus	Num	8	BEST12.	BEST12.	Sale Price > \$175,000
8	Central_Air	Char	2	\$CHAR2.	\$CHAR1.	Presence of central air conditioning
20	Deck_Porch_Area	Num	8	BEST12.	BEST12.	Total area of decks and porches in square feet
11	Fireplaces	Num	8	BEST12.	BEST12.	Number of fireplaces
24	Foundation_2	Char	32	\$CHAR32.	\$CHAR16.	Foundation Type
17	Full_Bathroom	Num	8	BEST12.	BEST12.	Number of full bathrooms
12	Garage_Area	Num	8	BEST12.	BEST12.	Size of garage in square feet
23	Garage_Type_2	Char	16	\$CHAR16.	\$CHAR8.	Garage attached or detached
9	Gr_Liv_Area	Num	8	BEST12.	BEST12.	Above grade (ground) living area square feet
18	Half_Bathroom	Num	8	BEST12.	BEST12.	Number of half bathrooms
7	Heating_QC	Char	4	\$CHAR4.	\$CHAR2.	Heating quality and condition
3	House_Style	Char	12	\$CHAR12.	\$CHAR6.	Style of dwelling
27	House_Style2	Char	12	\$CHAR12.	\$CHAR6.	Style of dwelling
30	Log_Price	Num	8	BEST12.	BEST12.	Natural log of the sale price
2	Lot_Area	Num	8	BEST12.	BEST12.	Lot size in square feet
26	Lot_Shape_2	Char	20	\$CHAR20.	\$CHAR10.	Regular or irregular lot shape
25	Masonry_Veneer	Char	2	\$CHAR2.	\$CHAR1.	Masonry veneer or not
13	Mo_Sold	Num	8	BEST12.	BEST12.	Month Sold (MM)
5	Overall_Cond	Num	8	BEST12.	BEST12.	Overall condition of the house
29	Overall_Cond2	Num	8	BEST12.	BEST12.	Overall condition of the house
4	Overall_Qual	Num	8	BEST12.	BEST12.	Overall material and finish of the house
28	Overall_Qual2	Num	8	BEST12.	BEST12.	Overall material and finish of the house
1	PID	Char	20	\$CHAR20.	\$CHAR10.	
15	SalePrice	Num	8	BEST12.	BEST12.	Sale price in dollars
22	Season_Sold	Num	8	BEST12.	BEST12.	Season when house sold
19	Total_Bathroom	Num	8	BEST12.	BEST12.	Total number of bathrooms (half bathrooms counted 10%)
6	Year_Built	Num	8	BEST12.	BEST12.	Original construction year
14	Yr_Sold	Num	8	BEST12.	BEST12.	Year Sold (YYYY)

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
32	score	Num	8		

The FREQ Procedure

Style of dwelling				
House_Style	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1.5Fin	28	9.33	28	9.33
1.5Unf	4	1.33	32	10.67
1Story	194	64.67	226	75.33
2.5Unf	2	0.67	228	76.00
2Story	38	12.67	266	88.67
SFoyer	13	4.33	279	93.00
SLvl	21	7.00	300	100.00

Lot size in square feet				
Lot_Area	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1495	1	0.33	1	0.33
1533	1	0.33	2	0.67
1596	1	0.33	3	1.00
1680	4	1.33	7	2.33
1733	1	0.33	8	2.67
2001	1	0.33	9	3.00
2160	1	0.33	10	3.33
2205	1	0.33	11	3.67
2364	1	0.33	12	4.00
2394	1	0.33	13	4.33
2544	1	0.33	14	4.67
2760	1	0.33	15	5.00
3153	1	0.33	16	5.33
3203	1	0.33	17	5.67
3500	1	0.33	18	6.00
3600	2	0.67	20	6.67
3628	1	0.33	21	7.00
3675	1	0.33	22	7.33
3696	1	0.33	23	7.67
3840	1	0.33	24	8.00
3876	1	0.33	25	8.33
3880	2	0.67	27	9.00
4017	1	0.33	28	9.33
4130	1	0.33	29	9.67
4224	1	0.33	30	10.00
4280	1	0.33	31	10.33
4282	1	0.33	32	10.67
4385	1	0.33	33	11.00
4388	1	0.33	34	11.33
4426	2	0.67	36	12.00
4435	3	1.00	39	13.00
4500	3	1.00	42	14.00
4571	1	0.33	43	14.33
4608	1	0.33	44	14.67
4882	1	0.33	45	15.00
4920	1	0.33	46	15.33
5000	1	0.33	47	15.67
5005	1	0.33	48	16.00
5063	1	0.33	49	16.33
5330	1	0.33	50	16.67
5395	1	0.33	51	17.00
5400	1	0.33	52	17.33
5470	1	0.33	53	17.67
5684	1	0.33	54	18.00
5700	1	0.33	55	18.33
5747	1	0.33	56	18.67
5784	1	0.33	57	19.00
5820	1	0.33	58	19.33
5925	1	0.33	59	19.67
6000	4	1.33	63	21.00
6060	2	0.67	65	21.67
6120	3	1.00	68	22.67
6155	1	0.33	69	23.00
6180	1	0.33	70	23.33
6240	2	0.67	72	24.00

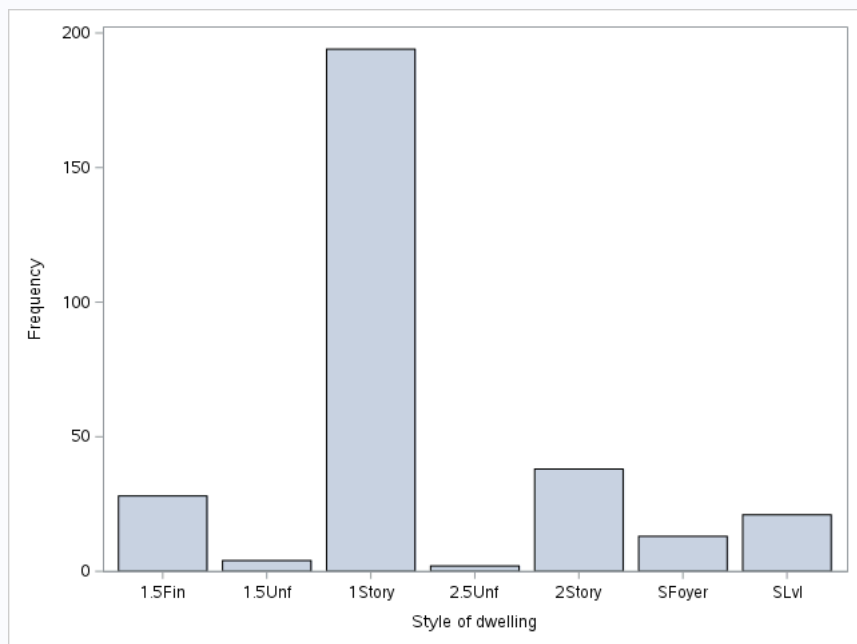
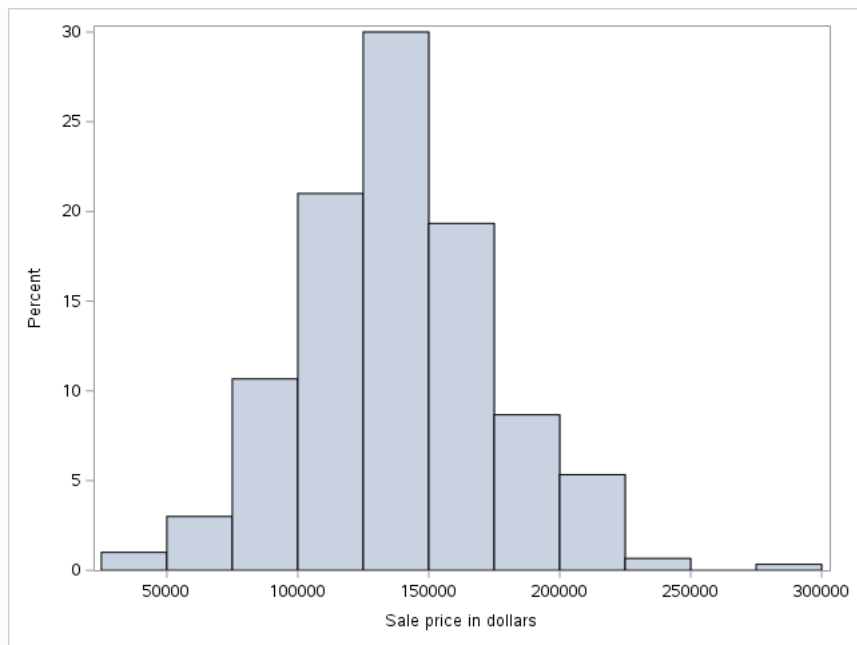
Lot size in square feet				
Lot_Area	Frequency	Percent	Cumulative Frequency	Cumulative Percent
6285	2	0.67	74	24.67
6289	1	0.33	75	25.00
6300	1	0.33	76	25.33
6305	1	0.33	77	25.67
6324	1	0.33	78	26.00
6342	1	0.33	79	26.33
6451	1	0.33	80	26.67
6600	1	0.33	81	27.00
6615	1	0.33	82	27.33
6627	1	0.33	83	27.67
6629	1	0.33	84	28.00
6710	1	0.33	85	28.33
6718	1	0.33	86	28.67
6720	1	0.33	87	29.00
6853	1	0.33	88	29.33
6900	1	0.33	89	29.67
6931	1	0.33	90	30.00
6993	1	0.33	91	30.33
7000	6	2.00	97	32.33
7015	1	0.33	98	32.67
7100	1	0.33	99	33.00
7155	1	0.33	100	33.33
7175	2	0.67	102	34.00
7200	9	3.00	111	37.00
7290	1	0.33	112	37.33
7350	1	0.33	113	37.67
7424	1	0.33	114	38.00
7440	1	0.33	115	38.33
7449	1	0.33	116	38.67
7476	1	0.33	117	39.00
7500	3	1.00	120	40.00
7518	1	0.33	121	40.33
7590	1	0.33	122	40.67
7599	1	0.33	123	41.00
7750	2	0.67	125	41.67
7763	1	0.33	126	42.00
7800	2	0.67	128	42.67
7801	1	0.33	129	43.00
7848	1	0.33	130	43.33
7890	1	0.33	131	43.67
7920	1	0.33	132	44.00
7930	1	0.33	133	44.33
7931	1	0.33	134	44.67
7943	1	0.33	135	45.00
7990	1	0.33	136	45.33
8000	1	0.33	137	45.67
8010	1	0.33	138	46.00
8014	1	0.33	139	46.33
8020	1	0.33	140	46.67
8029	1	0.33	141	47.00
8050	1	0.33	142	47.33
8088	1	0.33	143	47.67
8120	1	0.33	144	48.00
8125	2	0.67	146	48.67
8198	1	0.33	147	49.00
8212	1	0.33	148	49.33
8240	1	0.33	149	49.67
8250	1	0.33	150	50.00
8280	1	0.33	151	50.33
8300	1	0.33	152	50.67
8400	2	0.67	154	51.33
8405	1	0.33	155	51.67
8414	1	0.33	156	52.00
8425	1	0.33	157	52.33
8480	1	0.33	158	52.67
8520	2	0.67	160	53.33
8529	1	0.33	161	53.67
8530	1	0.33	162	54.00
8534	1	0.33	163	54.33
8544	1	0.33	164	54.67
8574	1	0.33	165	55.00
8604	1	0.33	166	55.33
8638	1	0.33	167	55.67

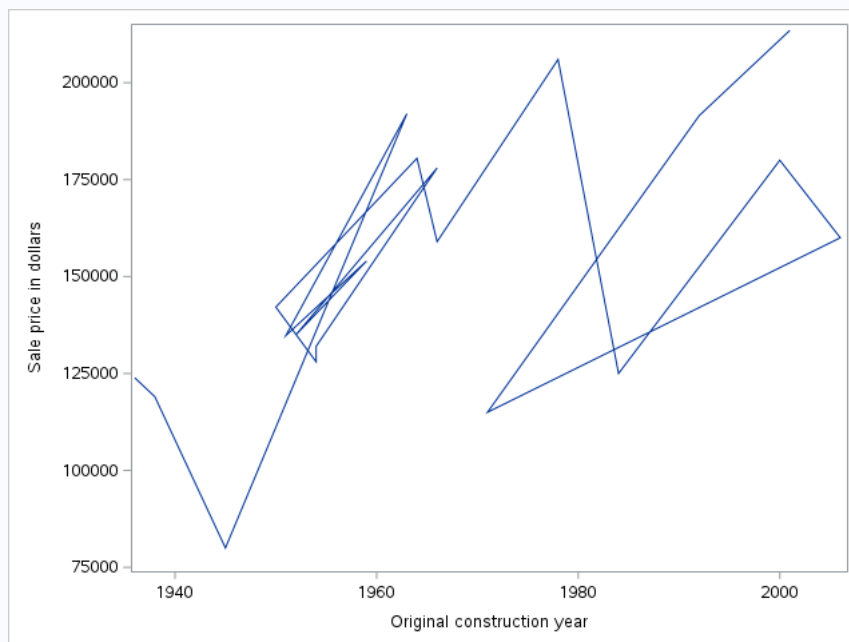
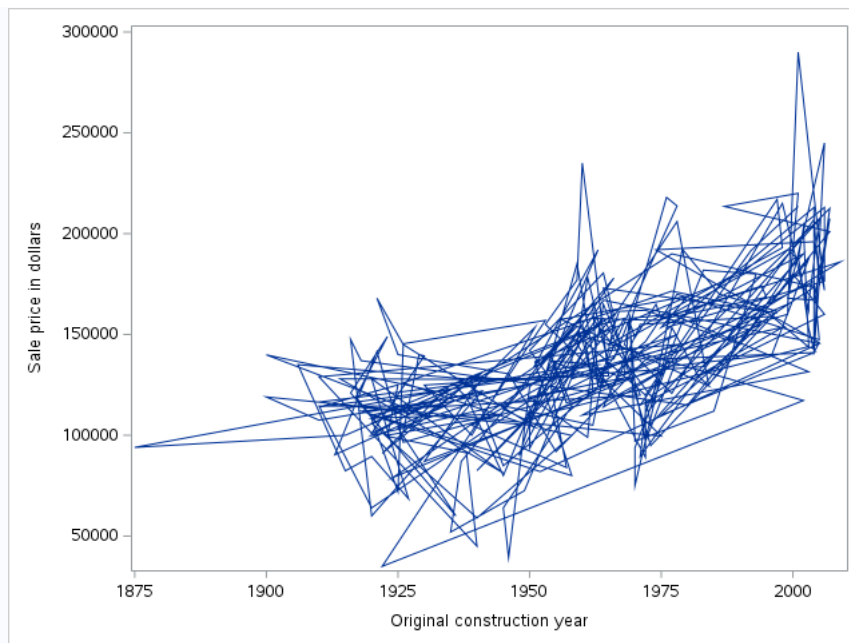
Lot size in square feet				
Lot_Area	Frequency	Percent	Cumulative Frequency	Cumulative Percent
8660	1	0.33	168	56.00
8674	1	0.33	169	56.33
8685	1	0.33	170	56.67
8750	1	0.33	171	57.00
8760	1	0.33	172	57.33
8773	1	0.33	173	57.67
8777	2	0.67	175	58.33
8780	1	0.33	176	58.67
8789	1	0.33	177	59.00
8816	1	0.33	178	59.33
8854	1	0.33	179	59.67
8872	1	0.33	180	60.00
8885	1	0.33	181	60.33
8925	1	0.33	182	60.67
8969	1	0.33	183	61.00
9017	1	0.33	184	61.33
9060	1	0.33	185	61.67
9129	1	0.33	186	62.00
9139	1	0.33	187	62.33
9150	1	0.33	188	62.67
9187	1	0.33	189	63.00
9204	1	0.33	190	63.33
9236	1	0.33	191	63.67
9250	1	0.33	192	64.00
9317	1	0.33	193	64.33
9350	2	0.67	195	65.00
9364	1	0.33	196	65.33
9500	1	0.33	197	65.67
9533	1	0.33	198	66.00
9571	1	0.33	199	66.33
9590	1	0.33	200	66.67
9600	3	1.00	203	67.67
9620	1	0.33	204	68.00
9717	1	0.33	205	68.33
9720	1	0.33	206	68.67
9723	1	0.33	207	69.00
9734	1	0.33	208	69.33
9750	1	0.33	209	69.67
9759	1	0.33	210	70.00
9760	1	0.33	211	70.33
9768	1	0.33	212	70.67
9770	1	0.33	213	71.00
9786	1	0.33	214	71.33
9790	1	0.33	215	71.67
9840	1	0.33	216	72.00
9858	1	0.33	217	72.33
9900	3	1.00	220	73.33
9920	1	0.33	221	73.67
9937	1	0.33	222	74.00
10007	1	0.33	223	74.33
10012	1	0.33	224	74.67
10106	1	0.33	225	75.00
10114	1	0.33	226	75.33
10122	1	0.33	227	75.67
10125	1	0.33	228	76.00
10140	2	0.67	230	76.67
10143	1	0.33	231	77.00
10150	1	0.33	232	77.33
10200	1	0.33	233	77.67
10206	1	0.33	234	78.00
10246	1	0.33	235	78.33
10307	1	0.33	236	78.67
10320	2	0.67	238	79.33
10355	1	0.33	239	79.67
10357	1	0.33	240	80.00
10400	1	0.33	241	80.33
10420	1	0.33	242	80.67
10447	1	0.33	243	81.00
10452	1	0.33	244	81.33
10464	1	0.33	245	81.67
10500	1	0.33	246	82.00
10533	1	0.33	247	82.33
10594	1	0.33	248	82.67

Lot size in square feet				
Lot_Area	Frequency	Percent	Cumulative Frequency	Cumulative Percent
10739	1	0.33	249	83.00
10768	1	0.33	250	83.33
10800	2	0.67	252	84.00
10825	1	0.33	253	84.33
10880	1	0.33	254	84.67
10950	1	0.33	255	85.00
11000	1	0.33	256	85.33
11040	1	0.33	257	85.67
11050	1	0.33	258	86.00
11100	1	0.33	259	86.33
11105	1	0.33	260	86.67
11200	2	0.67	262	87.33
11380	1	0.33	263	87.67
11425	1	0.33	264	88.00
11500	1	0.33	265	88.33
11512	1	0.33	266	88.67
11515	1	0.33	267	89.00
11553	1	0.33	268	89.33
11767	1	0.33	269	89.67
11950	1	0.33	270	90.00
12122	1	0.33	271	90.33
12155	1	0.33	272	90.67
12354	1	0.33	273	91.00
12358	1	0.33	274	91.33
12400	1	0.33	275	91.67
12450	1	0.33	276	92.00
12493	1	0.33	277	92.33
12589	1	0.33	278	92.67
12735	1	0.33	279	93.00
12774	1	0.33	280	93.33
12929	1	0.33	281	93.67
12936	1	0.33	282	94.00
13072	2	0.67	284	94.67
13108	1	0.33	285	95.00
13110	1	0.33	286	95.33
13383	1	0.33	287	95.67
13400	1	0.33	288	96.00
13500	1	0.33	289	96.33
14112	1	0.33	290	96.67
14137	1	0.33	291	97.00
14149	1	0.33	292	97.33
14419	1	0.33	293	97.67
15750	1	0.33	294	98.00
16196	1	0.33	295	98.33
16285	1	0.33	296	98.67
17755	1	0.33	297	99.00
19508	1	0.33	298	99.33
25339	1	0.33	299	99.67
26142	1	0.33	300	100.00

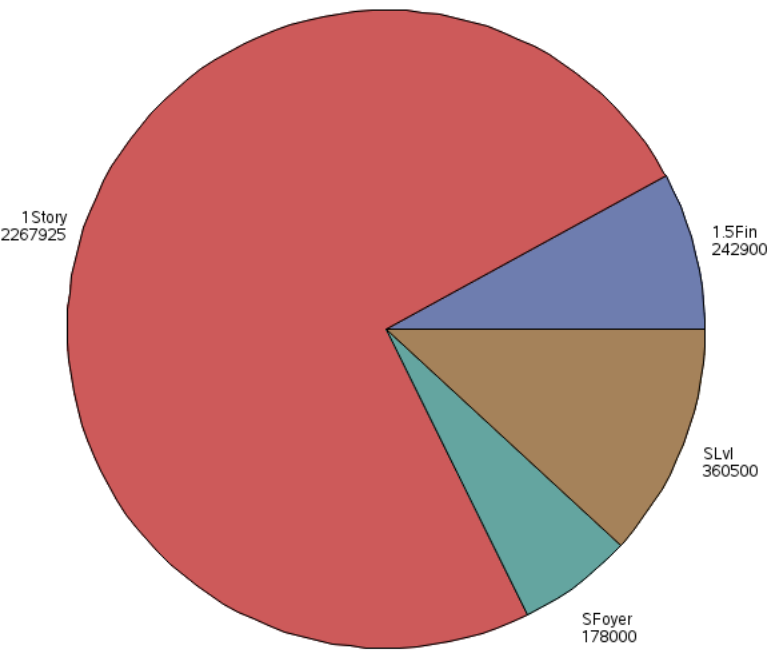
The MEANS Procedure

Analysis Variable : SalePrice Sale price in dollars				
N	Mean	Std Dev	Minimum	Maximum
300	137524.87	37622.64	35000.00	290000.00





SUM of Sale price in dollars by Style of dwelling



The MEANS Procedure

Analysis Variable : SalePrice Sale price in dollars						
Style of dwelling	N Obs	N	Mean	Std Dev	Minimum	Maximum
1.5Fin	28	28	115555.36	18380.04	64000.00	145400.00
1.5Unf	4	4	110975.00	23754.35	87000.00	139400.00
1Story	194	194	139520.26	41078.68	35000.00	290000.00
2.5Unf	2	2	114500.00	19091.88	101000.00	128000.00
2Story	38	38	127488.92	28536.23	75000.00	176000.00
SFoyer	13	13	152973.08	21224.26	99600.00	178400.00
SLvl	21	21	164230.95	23190.61	94900.00	213500.00

The UNIVARIATE Procedure
Variable: SalePrice (Sale price in dollars)

Moments			
N	300	Sum Weights	300
Mean	137524.867	Sum Observations	41257460
Std Deviation	37622.6431	Variance	1415463276
Skewness	0.29726388	Kurtosis	0.72287774
Uncorrected SS	6.09715E12	Corrected SS	4.23224E11
Coeff Variation	27.3569748	Std Error Mean	2172.14431

Basic Statistical Measures			
Location		Variability	
Mean	137524.9	Std Deviation	37623
Median	135000.0	Variance	1415463276
Mode	110000.0	Range	255000
		Interquartile Range	45475

Note: The mode displayed is the smallest of 2 modes with a count of 6.

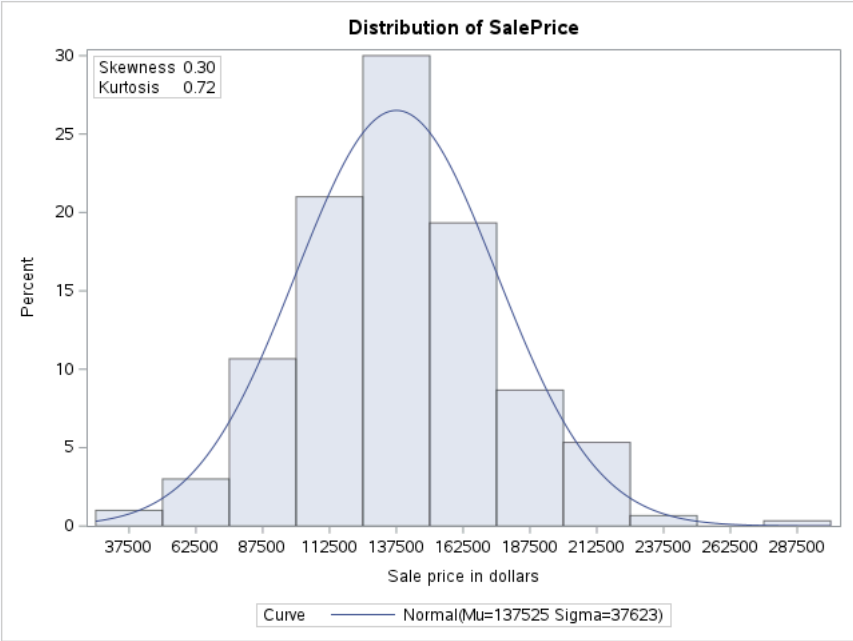
Tests for Location: Mu0=0			
Test	Statistic	p Value	
Student's t	t 63.31295	Pr > t	<.0001
Sign	M 150	Pr >= M	<.0001
Signed Rank	S 22575	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	290000
99%	227500
95%	207000
90%	187300

Quantiles (Definition 5)	
Level	Quantile
75% Q3	159475
50% Median	135000
25% Q1	114000
10%	91150
5%	80000
1%	48500
0% Min	35000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
35000	294	218000	184
39300	190	220000	106
45000	77	235000	151
52000	130	245000	54
59000	70	290000	123

The UNIVARIATE Procedure



The UNIVARIATE Procedure
Fitted Normal Distribution for SalePrice (Sale price in dollars)

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	137524.9
Std Dev	Sigma	37622.64

Goodness-of-Fit Tests for Normal Distribution			
Test	Statistic	p Value	
Kolmogorov-Smirnov	D	0.04433755	Pr > D >0.150
Cramer-von Mises	W-Sq	0.11943883	Pr > W-Sq 0.064
Anderson-Darling	A-Sq	0.69161031	Pr > A-Sq 0.074

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	48500.0	50001.5
5.0	80000.0	75641.1
10.0	91150.0	89309.5
25.0	114000.0	112148.8
50.0	135000.0	137524.9
75.0	159475.0	162901.0
90.0	187300.0	185740.2
95.0	207000.0	199408.6
99.0	227500.0	225048.2

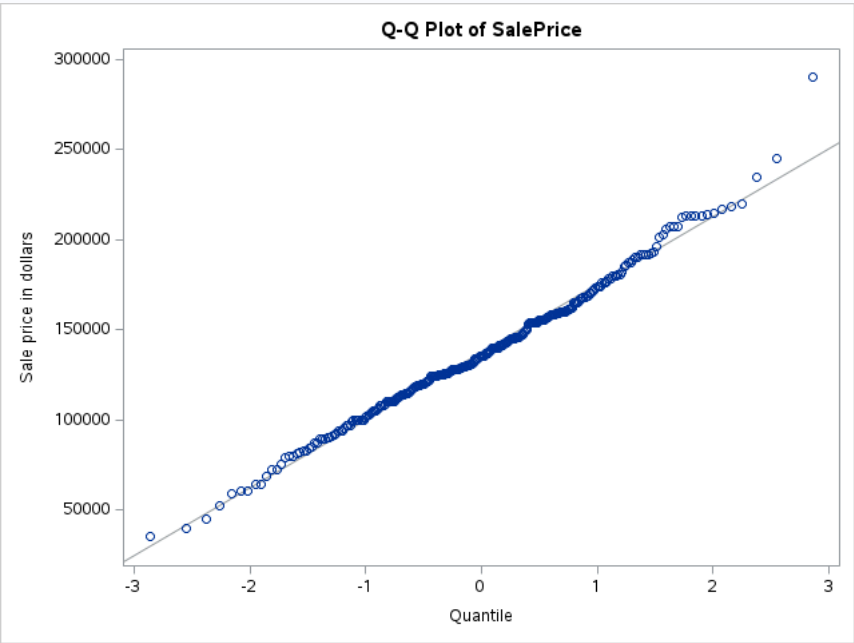
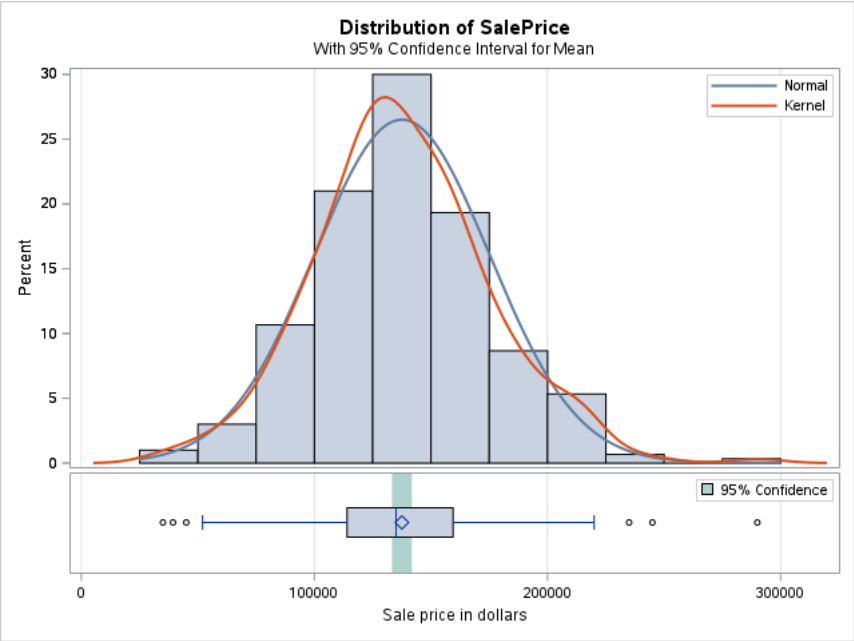
The TTEST Procedure

Variable: SalePrice (Sale price in dollars)

N	Mean	Std Dev	Std Err	Minimum	Maximum
300	137525	37622.6	2172.1	35000.0	290000

Mean	95% CL Mean	Std Dev	95% CL Std Dev
137525	133250 141799	37622.6	34833.7 40900.7

DF	t Value	Pr > t
299	-5.74	<.0001



The TTEST Procedure

Variable: SalePrice (Sale price in dollars)

House_Style	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
1Story		194	139520	41078.7	2949.3	35000.0	290000
2Story		38	127489	28536.2	4629.2	75000.0	176000
Diff (1-2)	Pooled		12031.3	39331.9	6977.4		
Diff (1-2)	Satterthwaite		12031.3		5488.9		

House_Style	Method	Mean	95% CL Mean	Std Dev	95% CL Std Dev
1Story		139520	133703 145337	41078.7	37357.4 45629.8
2Story		127489	118109 136869	28536.2	23264.6 36918.7

House_Style	Method	Mean	95% CL Mean	Std Dev	95% CL Std Dev
Diff (1-2)	Pooled	12031.3	-1716.5 25779.2	39331.9	36042.5 43287.2
Diff (1-2)	Satterthwaite	12031.3	1086.6 22976.1		

Method	Variances	DF	t Value	Pr > t
Pooled	Equal	230	1.72	0.0860
Satterthwaite	Unequal	70.894	2.19	0.0317

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	193	37	2.07	0.0100

