

The CONTENTS Procedure

Data Set Name	TR.HOUSE	Observations	20640
Member Type	DATA	Variables	10
Engine	V9	Indexes	0
Created	02/18/2021 20:34:04	Observation Length	80
Last Modified	02/18/2021 20:34:04	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	65536
Number of Data Set Pages	26
First Data Page	1
Max Obs per Page	817
Obs in First Data Page	778
Number of Data Set Repairs	0
Filename	/folders/myfolders/house.sas7bdat
Release Created	9.0401M6
Host Created	Linux
Inode Number	280467
Access Permission	rw-rw-r--
Owner Name	sasdemo
File Size	2MB
File Size (bytes)	1769472

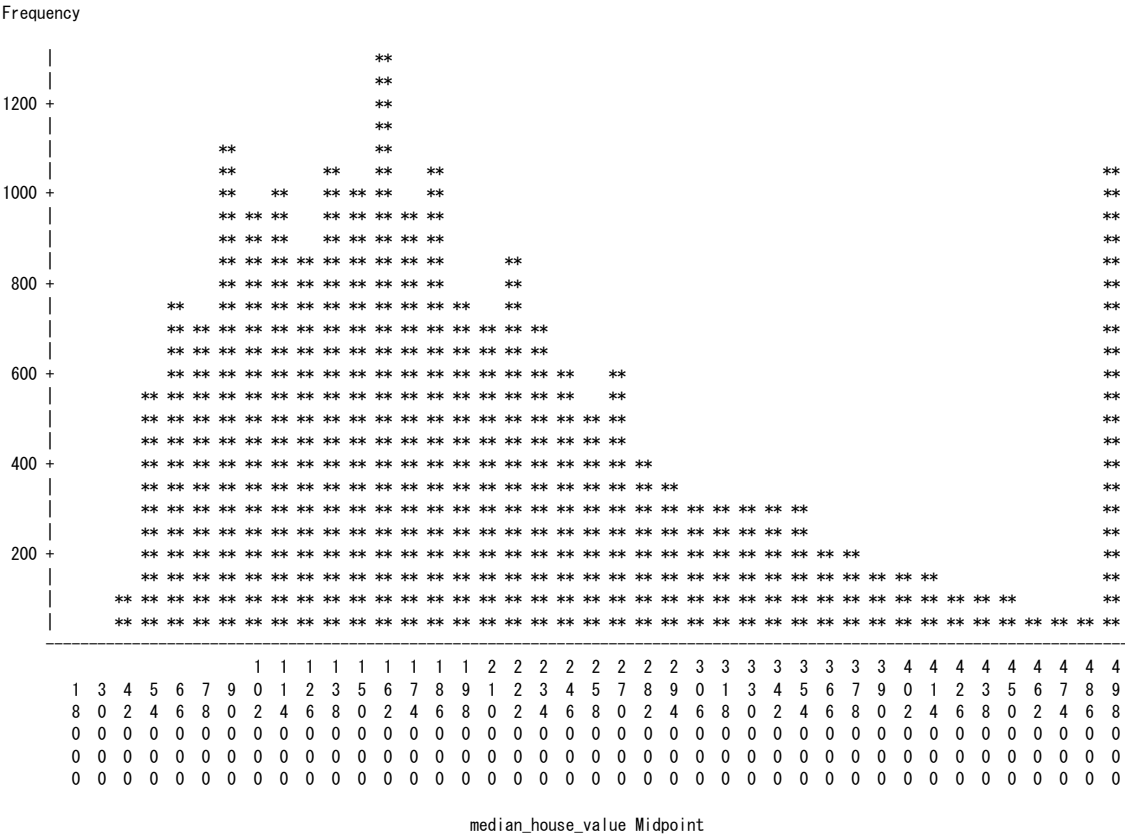
Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
7	households	Num	8	BEST12.	BEST32.
3	housing_median_age	Num	8	BEST12.	BEST32.
2	latitude	Num	8	BEST12.	BEST32.
1	longitude	Num	8	BEST12.	BEST32.
9	median_house_value	Num	8	BEST12.	BEST32.
8	median_income	Num	8	BEST12.	BEST32.
10	ocean_proximity	Char	8	\$8.	\$8.

The CONTENTS Procedure

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
6	population	Num	8	BEST12.	BEST32.
5	total_bedrooms	Num	8	BEST12.	BEST32.
4	total_rooms	Num	8	BEST12.	BEST32.

The MEANS Procedure

Variable	N	Mean	Std Dev	Minimum	Maximum
longitude	20640	-119.5697045	2.0035317	-124.3500000	-114.3100000
latitude	20640	35.6318614	2.1359524	32.5400000	41.9500000
housing_median_age	20640	28.6394864	12.5855576	1.0000000	52.0000000
total_rooms	20640	2635.76	2181.62	2.0000000	39320.00
total_bedrooms	20433	537.8705525	421.3850701	1.0000000	6445.00
population	20640	1425.48	1132.46	3.0000000	35682.00
households	20640	499.5396802	382.3297528	1.0000000	6082.00
median_income	20640	3.8706710	1.8998217	0.4999000	15.0001000
median_house_value	20640	206855.82	115395.62	14999.00	500001.00



The GLMSELECT Procedure

Data Set	TR.HOUSE
Dependent Variable	median_house_value
Selection Method	LASSO
Stop Criterion	SBC
Effect Hierarchy Enforced	None

Number of Observations Read	20640
Number of Observations Used	20640

Dimensions	
Number of Effects	6
Number of Parameters	6

The GLMSELECT Procedure

LASSO Selection Summary				
Step	Effect Entered	Effect Removed	Number Effects In	SBC
0	Intercept		1	481173.636
1	median_income		2	469017.447
2	housing_median_age		3	467200.048
3	households		4	466193.095
4	population		5	464828.789
5	total_rooms		6	464141.528*
* Optimal Value of Criterion				

Selection stopped because all effects are in the final model.

The GLMSELECT Procedure
Selected Model

The selected model is the model at the last step (Step 5).

Effects:	Intercept households housing_median_age median_income population total_rooms
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Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Value
Model	5	1.547044E14	3.094088E13	5314.64
Error	20634	1.201276E14	5821825991	
Corrected Total	20639	2.74832E14		

Root MSE	76301
Dependent Mean	206856
R-Square	0.5629
Adj R-Sq	0.5628
AIC	484736
AICC	484736
SBC	464142

Parameter Estimates		
Parameter	DF	Estimate
Intercept	1	-37927
households	1	214.353868
housing_median_age	1	1842.149488
median_income	1	45970
population	1	-39.445465
total_rooms	1	-13.946204

The REG Procedure
Model: MODEL1
Dependent Variable: median_house_value

Number of Observations Read	20640
Number of Observations Used	20640

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	1.547044E14	3.094088E13	5314.64	<.0001
Error	20634	1.201276E14	5821825991		
Corrected Total	20639	2.74832E14			

Root MSE	76301	R-Square	0.5629
Dependent Mean	206856	Adj R-Sq	0.5628
Coeff Var	36.88603		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-37927	2168.45990	-17.49	<.0001
households	1	214.35387	4.59519	46.65	<.0001
housing_median_age	1	1842.14949	45.41886	40.56	<.0001
median_income	1	45970	318.41640	144.37	<.0001
population	1	-39.44546	1.13216	-34.84	<.0001
total_rooms	1	-13.94620	0.71994	-19.37	<.0001

The REG Procedure
Model: MODEL1
Dependent Variable: median_house_value

