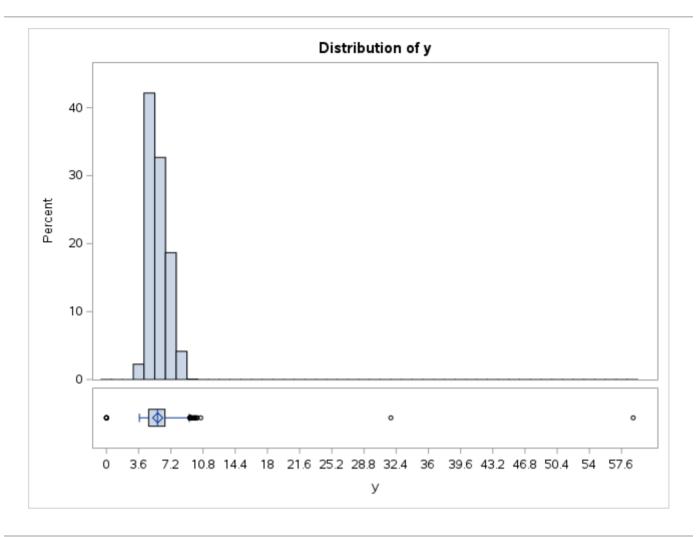
The CONTENTS Procedure

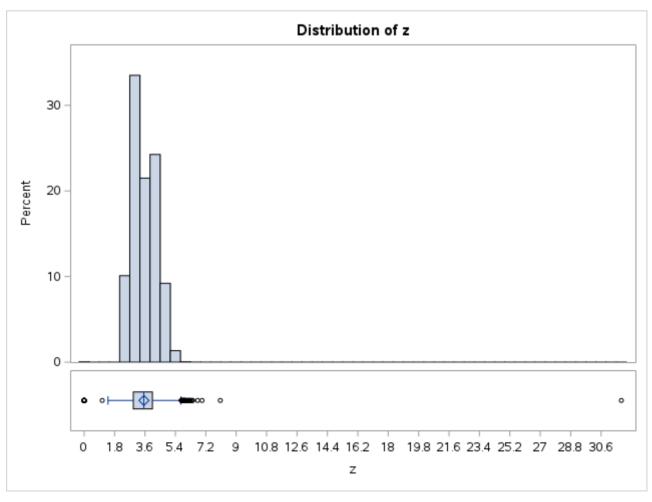
Data Set Name	WORK.DIAMONDS	Observations	53940
Member Type	DATA	Variables	11
Engine	V9	Indexes	0
Created	17/01/2023 15:05:43	Observation Length	80
Last Modified	17/01/2023 15:05:43	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

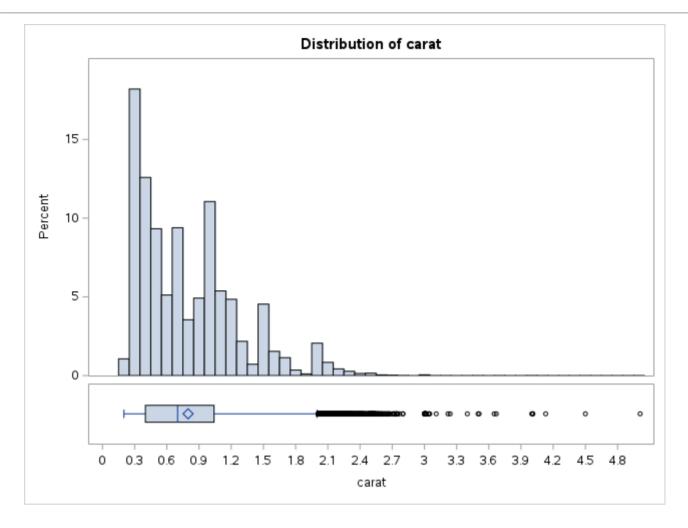
	Engine/Host Dependent Information			
Data Set Page Size	131072			
Number of Data Set Pages	34			
First Data Page	1			
Max Obs per Page	1635			
Obs in First Data Page	1595			
Number of Data Set Repairs	0			
Filename	/saswork/SAS_work792000004778_odaws01-usw2-2.oda.sas.com/SAS_work59DF00004778_odaws01-usw2-2.oda.sas.com/diamonds.sas7bdat			
Release Created	9.0401M7			
Host Created	Linux			
Inode Number	402653258			
Access Permission	rw-rr			
Owner Name	u62797381			
File Size	4MB			
File Size (bytes)	4587520			

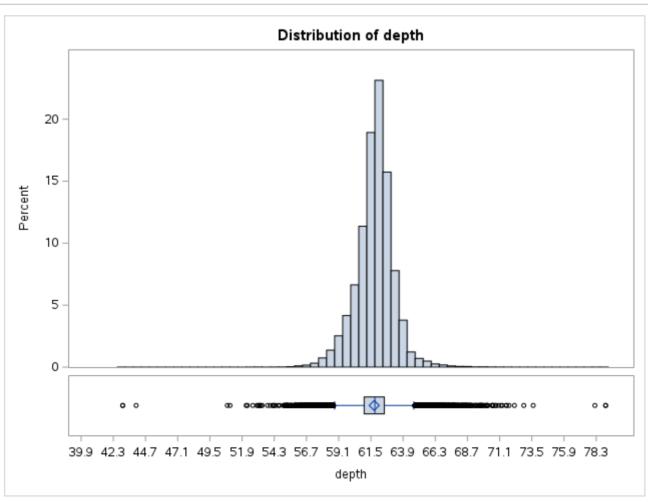
	Alphabetic List of Variables and Attributes					
#	Variable	Туре	Len	Format	Informat	
1	VAR1	Char	4	\$4.	\$4.	
2	carat	Num	8	BEST12.	BEST32.	
5	clarity	Char	6	\$6.	\$6.	
4	color	Char	3	\$3.	\$3.	
3	cut	Char	11	\$11.	\$11.	
6	depth	Num	8	BEST12.	BEST32.	
8	price	Num	8	BEST12.	BEST32.	
7	table	Num	8	BEST12.	BEST32.	
9	х	Num	8	BEST12.	BEST32.	
10	у	Num	8	BEST12.	BEST32.	
11	z	Num	8	BEST12.	BEST32.	

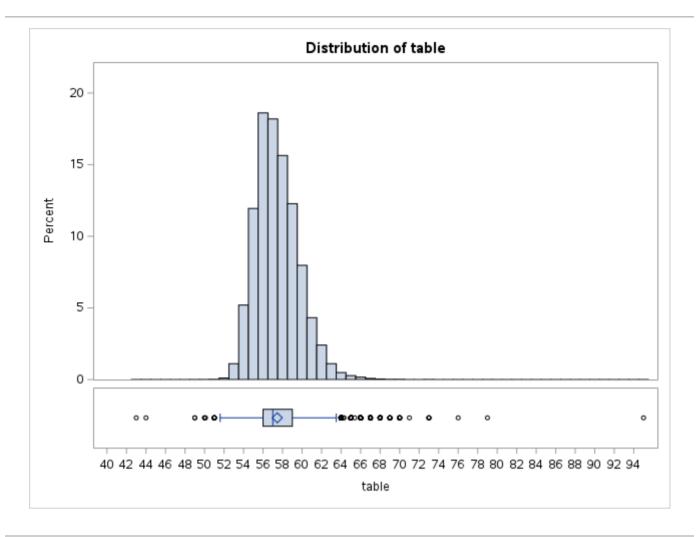
Variable	Mean	Std Dev	Minimum	Maximum	N
у	5.7345260	1.1421347	0	58.9000000	53940
Z	3.5387338	0.7056988	0	31.8000000	53940
carat	0.7979397	0.4740112	0.2000000	5.0100000	53940
depth	61.7494049	1.4326213	43.0000000	79.0000000	53940
table	57.4571839	2.2344906	43.0000000	95.0000000	53940
price	3932.80	3989.44	326.0000000	18823.00	53940
х	5.7311572	1.1217607	0	10.7400000	53940

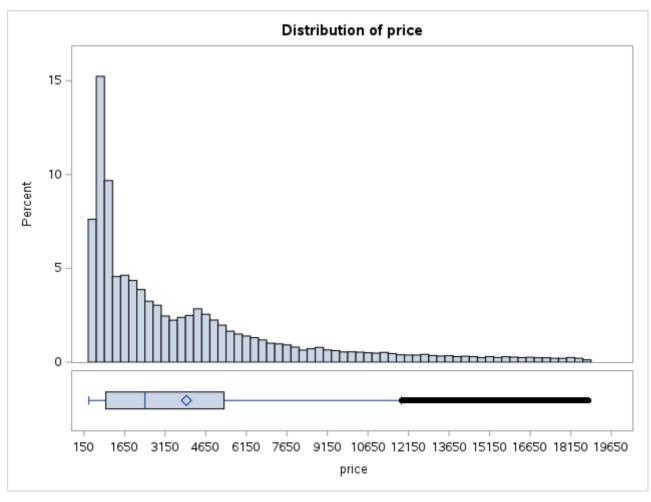


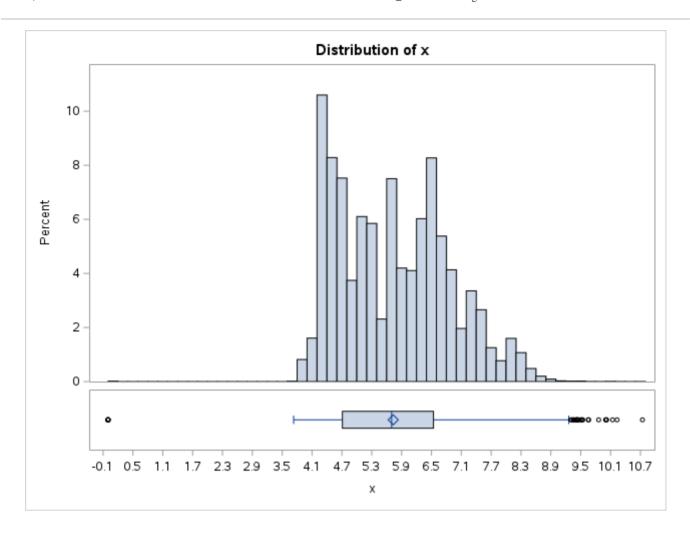


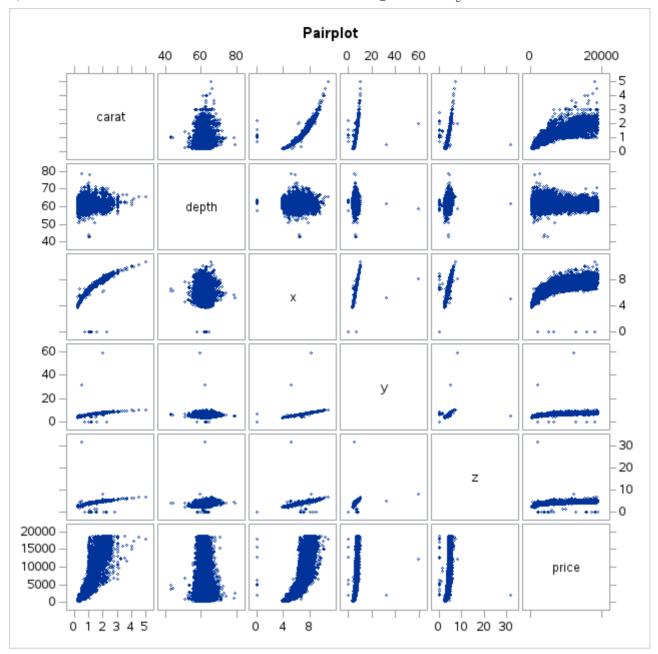












6 With Variables:	carat depth table x y z
1 Variables:	price

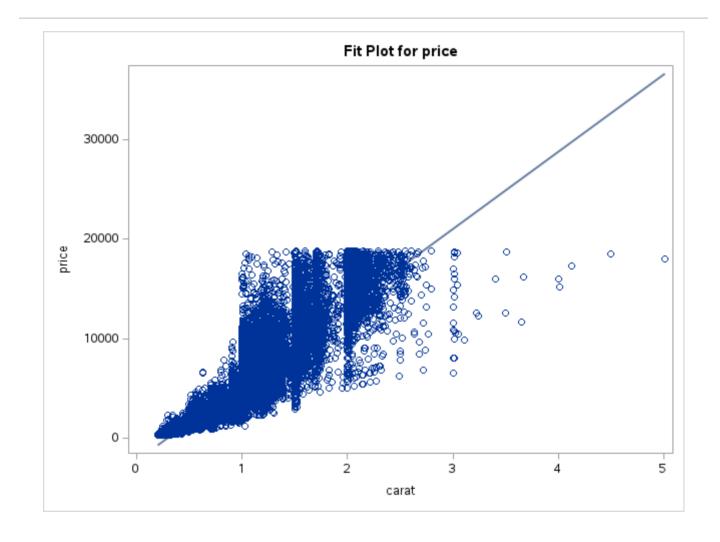
Pearson Correlation Coefficients, N = 53940		
	price	
carat	0.92159	
depth	-0.01065	
table	0.12713	
х	0.88444	
У	0.86542	
z	0.86125	

Data Set	WORK.DIAMONDS
Factor Extraction Method	Partial Least Squares
PLS Algorithm	NIPALS
Number of Response Variables	1
Number of Predictor Parameters	1

Missing Value Handling	Exclude
Number of Factors	1

Number of Observations Read	53940
Number of Observations Used	53940

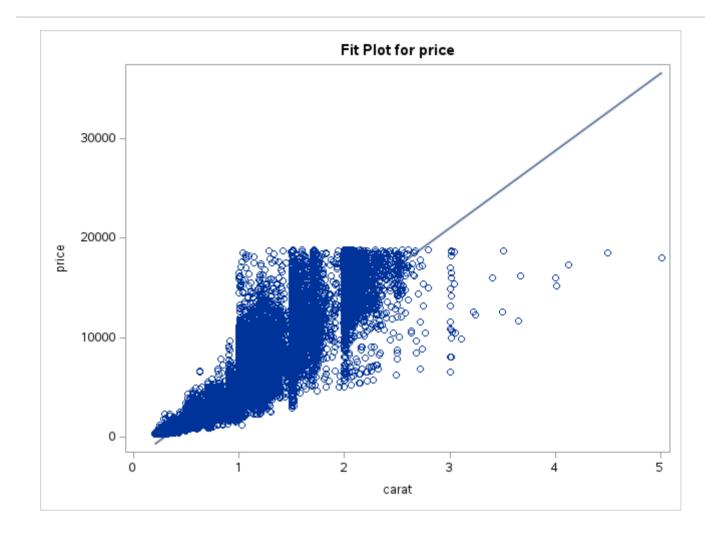
Percent Variation Accounted for by Partial Least Squares Factors				
	Model Effects Dependent		t Variables	
Number of Extracted Factors	Current	Total	Current	Total
1	100.0000	100.0000	84.9331	84.9331



Data Set	WORK.DIAMONDS
Factor Extraction Method	Partial Least Squares
PLS Algorithm	NIPALS
Number of Response Variables	1
Number of Predictor Parameters	1
Missing Value Handling	Exclude
Number of Factors	1

Number of Observations Read	53940
Number of Observations Used	53940

Percent Variation Accounted for by Partial Least Squares Factors					
	Model Effects Dependent Variable				
Number of Extracted Factors	Current	Total	Current	Total	
1	100.0000	100.0000	84.9331	84.9331	



Data Set	WORK.DIAMONDS
Dependent Variable	price
Selection Method	Forward
Select Criterion	Adj R-Sq
Stop Criterion	Adj R-Sq
Choose Criterion	Adj R-Sq
Effect Hierarchy Enforced	None

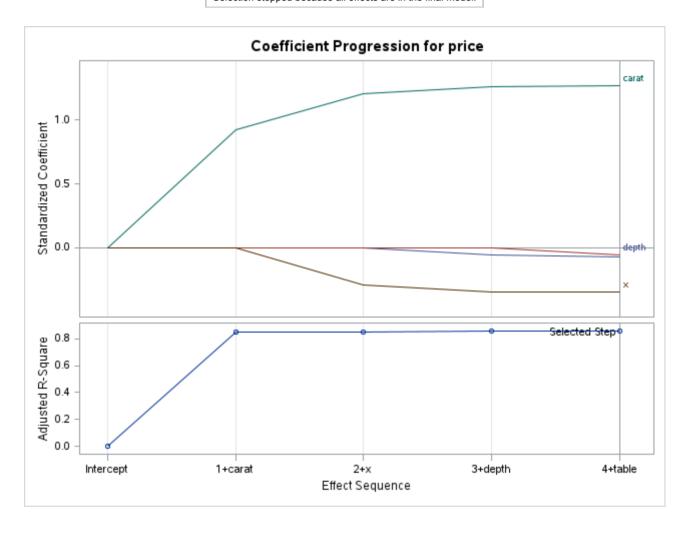
Number of Observations Read	53940
Number of Observations Used	53940

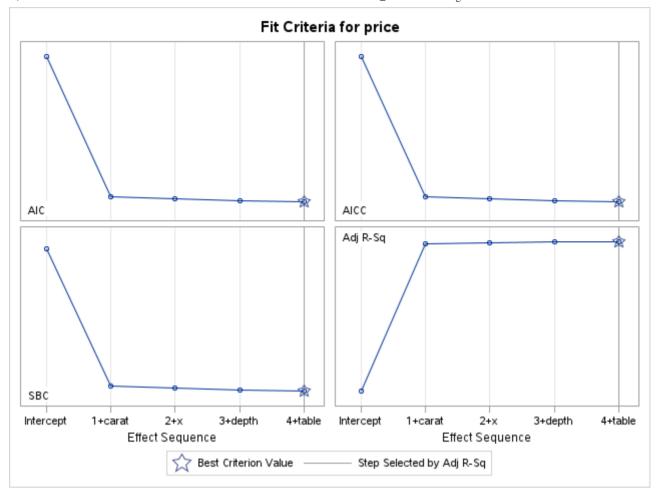
Dimensions			
Number of Effects	5		
Number of Parameters	5		

Forward Selection Summary					
Step	Effect Entered	Number Effects In	Adjusted R-Square		
* Optimal Value of Criterion					

Forward Selection Summary					
Step	Effect Entered	Number Effects In	Adjusted R-Square		
0	Intercept	1	0.0000		
1	carat	2	0.8493		
2	x	3	0.8534		
3	depth	4	0.8563		
4	table	5	0.8592*		
* Optimal Value of Criterion					

Selection stopped because all effects are in the final model.





Selected Model

The selected model, based on Adj R-Sq, is the model at Step 4.

Effects: Intercept depth table carat x

Note: The p-values for parameters and effects are not adjusted for the fact that the terms in the model have been selected and so are generally liberal.

Analysis of Variance						
Source DF Sum of Mean Square F Value Pr > F						
Model	4	7.375972E11	1.843993E11	82279.2	<.0001	
Error	53935	1.208759E11	2241141			
Corrected Total	53939	8.584731E11				

Root MSE	1497.04397
Dependent Mean	3932.79972
R-Square	0.8592
Adj R-Sq	0.8592
AIC	842684
AICC	842684
SBC	788787

Parameter Estimates						
Parameter	DF	Estimate	Standard Error	t Value	Pr > t	
Intercept	1	20766	418.983589	49.56	<.0001	
depth	1	-201.231070	4.851529	-41.48	<.0001	
table	1	-102.823886	3.081648	-33.37	<.0001	
carat	1	10693	63.167964	169.27	<.0001	

Parameter Estimates					
Parameter DF Estimate Error t Value P				Pr > Iti	
- urumotor		Lotimato		· value	1.1.1
x	1	-1226.773198	26.677982	-45.98	<.0001