The CONTENTS Procedure

Data Set Name	BANPROJS.WALMART_STORES	**Observations**	45
Member Type	DATA	**Variables**	3
Engine	V9	**Indexes**	0
Created	07/14/2021 01:05:52	**Observation Length**	32
Last Modified	07/14/2021 01:05:52	**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	4078
Obs in First Data Page	45
Number of Data Set Repairs	0
Filename	/home/u54770142/walmart_stores.sas7bdat
Release Created	9.0401M6
Host Created	Linux
Inode Number	17196761336
Access Permission	rw-r--r--
Owner Name	u54770142
File Size	256KB
File Size (bytes)	262144

Variables in Creation Order

#	Variable	Type	Len	Format	Informat	Label
1	Store	Num	8	BEST12.		Store
2	Type	Char	12	$12.	$12.	Type
3	Size	Num	8	BEST12.		Size

Change tto char

Listing the first 10 Observations of WALMART_FEATURES Data Set

Obs	Store	Type	Size
1	1	A	151315
2	2	A	202307
3	3	B	37392
4	4	A	205863
5	5	B	34875
6	6	A	202505
7	7	B	70713
8	8	A	155078
9	9	B	125833
10	10	B	126512

Derived Variable : Sales per square meter
Rank/Score Stores : High performing, etc

Checking Missing Values for Type Variable

The FREQ Procedure

Type		
Type	**Frequency**	**Percent**
Nonmissing	45	100.00

Checking nissing values for numeric variables in WALMART_STORES dataset

The MEANS Procedure

Variable	Label	N	N Miss	Mean	Median	Minimum	Maximum
Store	Store	45	0	23.0000000	23.0000000	1.0000000	45.0000000
Size	Size	45	0	130287.60	126512.00	34875.00	219622.00

Using PROC UNIVARIATE to examine size and store variables

The UNIVARIATE Procedure
Variable: Store (Store)

Moments			
N	45	**Sum Weights**	45
Mean	23	**Sum Observations**	1035
Std Deviation	13.1339255	**Variance**	172.5
Skewness	0	**Kurtosis**	-1.2
Uncorrected SS	31395	**Corrected SS**	7590
Coeff Variation	57.1040241	**Std Error Mean**	1.95789002

Basic Statistical Measures			
Location		**Variability**	
Mean	23.00000	**Std Deviation**	13.13393
Median	23.00000	**Variance**	172.50000
Mode	.	**Range**	44.00000
		Interquartile Range	22.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.74734	**Pr > |t|**	<.0001
Sign	**M**	22.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	517.5	**Pr >= |S|**	<.0001

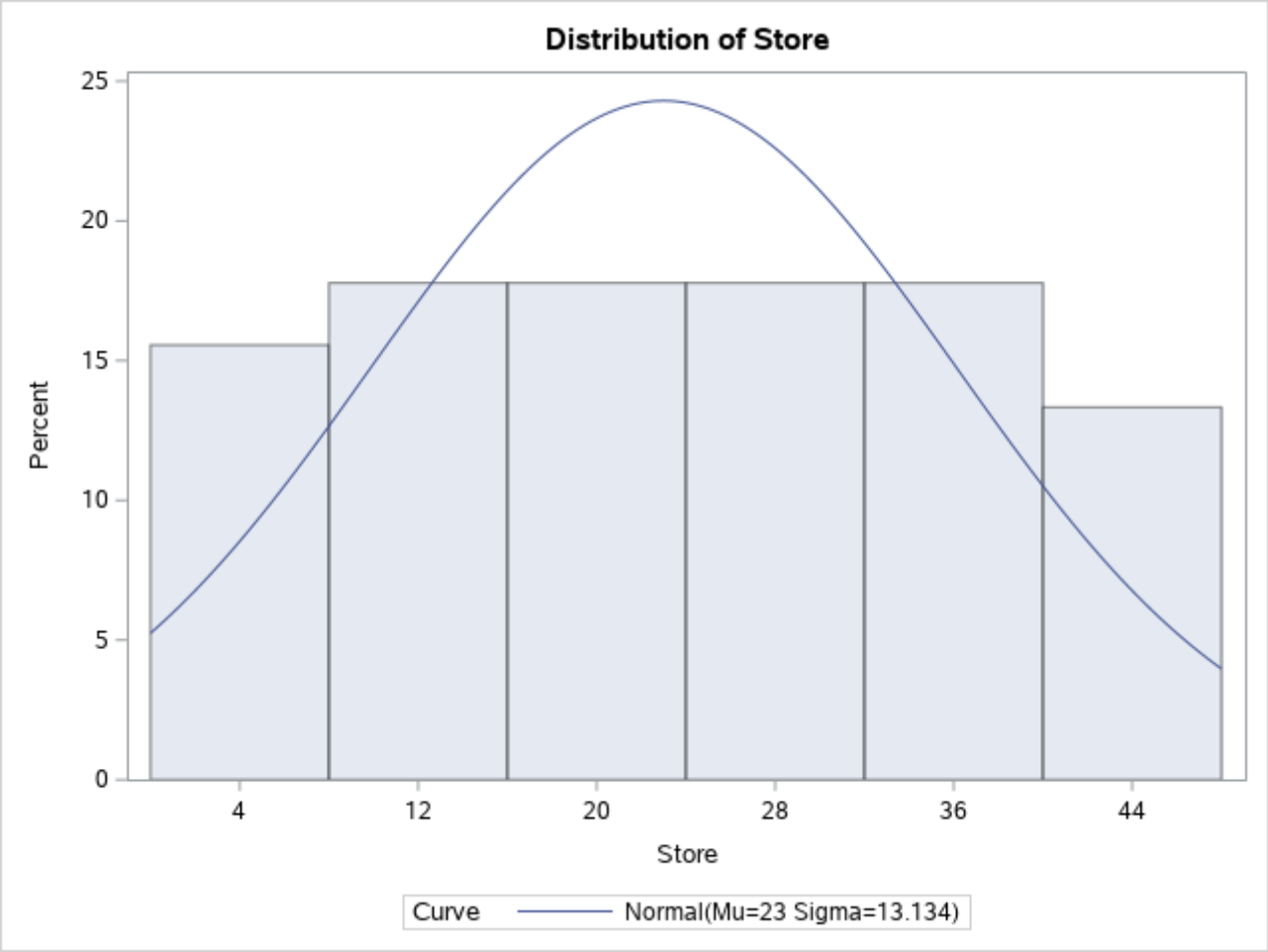
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	45
99%	45
95%	43
90%	41
75% Q3	34
50% Median	23
25% Q1	12
10%	5

Quantiles (Definition 5)	
Level	Quantile
5%	3
1%	1
0% Min	1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	1	41	41
2	2	42	42
3	3	43	43
4	4	44	44
5	5	45	45

Using PROC UNIVARIATE to examine size and store variables

The UNIVARIATE Procedure



Using PROC UNIVARIATE to examine size and store variables

The UNIVARIATE Procedure
Fitted Normal Distribution for Store (Store)

Parameters for Normal Distribution		
Parameter	Symbol	Estimate

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	23
Std Dev	Sigma	13.13393

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.06567591	Pr > D	>0.150
Cramer-von Mises	W-Sq	0.06462775	Pr > W-Sq	>0.250
Anderson-Darling	A-Sq	0.48039496	Pr > A-Sq	0.229

Quantiles for Normal Distribution		
	Quantile	
Percent	Observed	Estimated
1.0	1.00000	-7.55408
5.0	3.00000	1.39661
10.0	5.00000	6.16820
25.0	12.00000	14.14130
50.0	23.00000	23.00000
75.0	34.00000	31.85870
90.0	41.00000	39.83180
95.0	43.00000	44.60339
99.0	45.00000	53.55408

Using PROC UNIVARIATE to examine size and store variables

The UNIVARIATE Procedure
Variable: Size (Size)

Moments			
N	45	Sum Weights	45
Mean	130287.6	Sum Observations	5862942
Std Deviation	63825.272	Variance	4073665345
Skewness	-0.2000677	Kurtosis	-1.3722478
Uncorrected SS	9.4311E11	Corrected SS	1.79241E11
Coeff Variation	48.9879866	Std Error Mean	9514.50979

Basic Statistical Measures			
Location		Variability	
Mean	130287.6	Std Deviation	63825
Median	126512.0	Variance	4073665345
Mode	39690.0	Range	184747
		Interquartile Range	131594

Note: The mode displayed is the smallest of 2 modes with a count of 3.

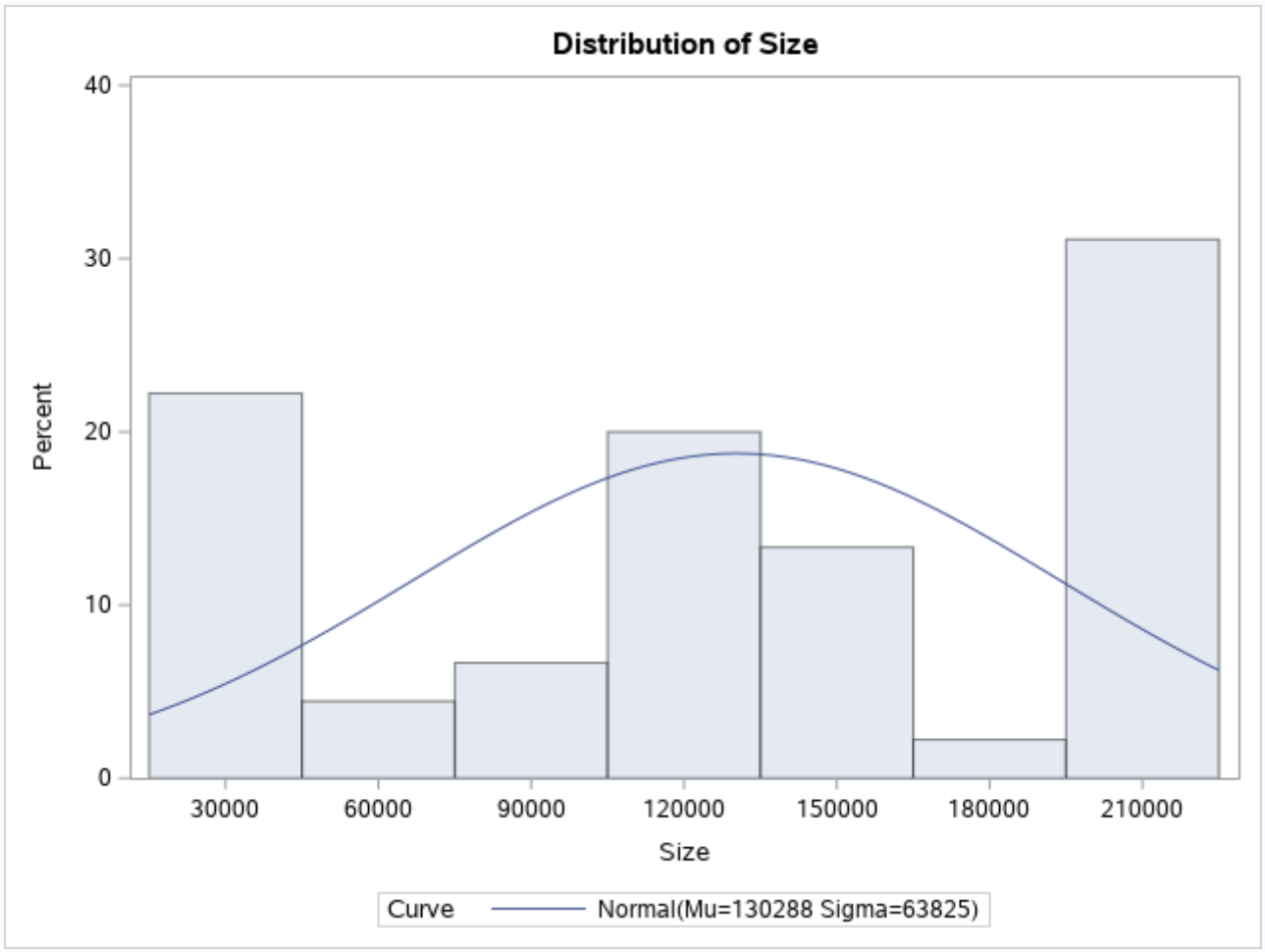
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	13.69357	Pr > |t|	<.0001
Sign	M	22.5	Pr >= |M|	<.0001
Signed Rank	S	517.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	219622
99%	219622
95%	206302
90%	204184
75% Q3	202307
50% Median	126512
25% Q1	70713
10%	39690
5%	39690
1%	34875
0% Min	34875

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
34875	5	204184	27
37392	3	205863	4
39690	42	206302	28
39690	38	207499	11
39690	33	219622	13

Using PROC UNIVARIATE to examine size and store variables

The UNIVARIATE Procedure



Using PROC UNIVARIATE to examine size and store variables

The UNIVARIATE Procedure
Fitted Normal Distribution for Size (Size)

Parameters for Normal Distribution		
Parameter	**Symbol**	**Estimate**
Mean	Mu	130287.6
Std Dev	Sigma	63825.27

Goodness-of-Fit Tests for Normal Distribution				
Test	**Statistic**		**p Value**	
Kolmogorov-Smirnov	**D**	0.16068241	**Pr > D**	<0.010
Cramer-von Mises	**W-Sq**	0.19821565	**Pr > W-Sq**	0.005
Anderson-Darling	**A-Sq**	1.67846903	**Pr > A-Sq**	<0.005

Quantiles for Normal Distribution		
	Quantile	
Percent	**Observed**	**Estimated**
1.0	34875.0	-18192.2
5.0	39690.0	25304.4
10.0	39690.0	48492.2
25.0	70713.0	87238.1
50.0	126512.0	130287.6
75.0	202307.0	173337.1
90.0	204184.0	212083.0

Quantiles for Normal Distribution		
	Quantile	
Percent	Observed	Estimated
95.0	206302.0	235270.8
99.0	219622.0	278767.4