The CONTENTS Procedure

Data Set Name	WORK.IRIS	Observations	150
Member Type	DATA	Variables	5
Engine	V9	Indexes	0
Created	02/11/2023 17:07:12	Observation Length	48
Last Modified	02/11/2023 17:07:12	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	2722
Obs in First Data Page	150
Number of Data Set Repairs	0
Filename	/saswork/SAS_work162C00017439_odaws03-usw2.oda.sas.com/SAS_work07F200017439_odaws03-usw2.oda.sas.com/iris.sas7bdat
Release Created	9.0401M7
Host Created	Linux
Inode Number	1610629643
Access Permission	rw-rr
Owner Name	u58947900
File Size	256KB
File Size (bytes)	262144

	Alphabetic List of Variables and Attributes							
#	Variable	Type	Len	Label				
4	PetalLength	Num	8	Petal Length (mm)				
5	PetalWidth	Num	8	Petal Width (mm)				
2	SepalLength	Num	8	Sepal Length (mm)				
3	SepalWidth	Num	8	Sepal Width (mm)				
1	Species	Char	10	Iris Species				

The MEANS Procedure

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
Sepa l Length	Sepal Length (mm)	150	58.4333333	8.2806613	43.0000000	79.0000000
Sepa l Width	Sepal Width (mm)	150	30.5733333	4.3586628	20.0000000	44.0000000
PetalLength	Petal Length (mm)	150	37.5800000	17.6529823	10.0000000	69.0000000
PetalWidth	Petal Width (mm)	150	11.9933333	7.6223767	1.0000000	25.0000000

The FREQ Procedure

Frequency Percent Row Pct Col Pct

		Table of Species by SepalLength																						
Species(Iris		SepalLength(Sepal Length (mm))																						
Species)	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	
Setosa	1	3	1	4	2	5	4	8	8	3	1	5	2	0	2	1	0	0	0	0	0	0	0	
	0.67	2.00	0.67	2.67	1.33	3,33	2.67	5.33	5.33	2.00	0.67	3.33	1.33	0.00	1.33	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.
	2.00	6.00	2.00	8.00	4.00	10.00	8.00	16.00	16.00	6.00	2.00	10.00	4.00	0.00	4.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	100.00	100.00	100.00	100.00	100.00	100.00	66.67	80.00	88.89	75.00	100.00	83.33	28.57	0.00	25.00	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Versicolor	0	0	0	0	0	0	1	2	1	1	0	1	5	5	5	3	2	4	4	2	3	2	1	
	0.00	0.00	0.00	0.00	0.00	0.00	0.67	1.33	0.67	0.67	0.00	0.67	3.33	3.33	3.33	2.00	1.33	2.67	2.67	1.33	2.00	1.33	0.67	1.3
	0.00	0.00	0.00	0.00	0.00	0.00	2.00	4.00	2.00	2.00	0.00	2.00	10.00	10.00	10.00	6.00	4.00	8.00	8.00	4.00	6.00	4.00	2.00	4.0
	0.00	0.00	0.00	0.00	0.00	0.00	16.67	20.00	11.11	25.00	0.00	16.67	71.43	83.33	62.50	42.86	66.67	66.67	66.67	50.00	33.33	28.57	20.00	100.0
Virginica	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	3	1	2	2	2	6	5	4	
_	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.67	2.00	0.67	1.33	1.33	1.33	4.00	3.33	2.67	0.0
	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	2,00	2,00	6.00	2.00	4.00	4.00	4.00	12.00	10,00	8.00	0.0
	0.00	0.00	0.00	0.00	0.00	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	16.67	12.50	42.86	33.33	33.33	33.33	50.00	66.67	71.43	80.00	0.0
Total	1	3	1	4	2	5	6	10	9	4	1	6	7	6	8	7	3	6	6	4	9	7	5	
	0.67	2.00	0.67	2.67	1.33	3.33	4.00	6.67	6.00	2.67	0.67	4.00	4.67	4.00	5.33	4.67	2.00	4.00	4.00	2.67	6.00	4.67	3.33	1.3

The CORR Procedure

4 Variables: | SepalLength SepalWidth PetalLength PetalWidth

Simple Statistics							
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label
SepalLength	150	58.43333	8.28066	8765	43.00000	79.00000	Sepal Length (mm)
SepalWidth	150	30,57333	4.35866	4586	20,00000	44.00000	Sepal Width (mm)
PetalLength	150	37.58000	17.65298	5637	10.00000	69.00000	Petal Length (mm)
PetalWidth	150	11.99333	7,62238	1799	1.00000	25,00000	Petal Width (mm)

Pearson Correlation Coefficients, N = 150 Prob > r under H0: Rho=0							
	SepalLength	SepalWidth	PetalLength	PetalWidth			
SepalLength	1.00000	-0.11757	0.87175	0.81794			
Sepal Length (mm)		0.1519	<.0001	<.0001			
SepalWidth	-0.11757	1,00000	-0.42844	-0.36613			
Sepal Width (mm)	0.1519		<.0001	<.0001			
PetalLength	0.87175	-0.42844	1.00000	0.96287			
Petal Length (mm)	<.0001	<.0001		<.0001			
PetalWidth	0.81794	-0.36613	0.96287	1.00000			
Petal Width (mm)	<.0001	<.0001	<.0001				

Obs	Species	SepalLength	SepalWidth	PetalLength	PetalWidth
1	Setosa	50	33	14	2
2	Setosa	46	34	14	3
3	Setosa	46	36	10	2
4	Setosa	51	33	17	
5	Setosa	55	35	13	2
6	Setosa	48	31	16	2
7	Setosa	52	34	14	2
8	Setosa	49	36	14	
9	Setosa	44	32	13	2
10	Setosa	50	35	16	6
11	Setosa	44	30	13	2
12	Setosa	47	32	16	2
13	Setosa	48	30	14	3
14	Setosa	51	38	16	2
15	Setosa	48	34	19	2
16	Setosa	50	30	16	2
17	Setosa	50	32	12	2
18	Setosa	43	30	11	
19	Setosa	58	40	12	2
20	Setosa	51	38	19	4
21	Setosa	49	30	14	2
22	Setosa	51	35	14	2
23	Setosa	50	34	16	-
24	Setosa	46	32	14	- :
25	Setosa	57	44	15	4
26	Setosa	50	36	14	- 2
27	Setosa	54	34	15	4
28	Setosa	52	41	15	
29	Setosa	55	42	14	-
30	Setosa	49	31	15	
31	Setosa	54	39	17	
32	Setosa	50	34	15	
33		44	29	14	
34	Setosa	47		13	
	Setosa		32		
35	Setosa	46	31	15	
36	Setosa	51	34	15	
37	Setosa	50	35	13	
38	Setosa	49	31	15	
39	Setosa	54	37	15	2
40	Setosa	54	39	13	4
41	Setosa	51	35	14	
42	Setosa	48	34	16	- 2
43	Setosa	48	30	14	
44	Setosa	45	23	13	
45	Setosa	57	38	17	;
46	Setosa	51	38	15	;
47	Setosa	54	34	17	2
48	Setosa	51	37	15	4
49	Setosa	52	35	15	- 2
50	Setosa	53	37	15	
51	Versicolor	65	28	46	15
52	Versicolor	62	22	45	15
53	Versicolor	59	32	48	18
54	Versicolor	61	30	46	14
55	Versicolor	60	27	51	16
56	Versicolor	56	25	39	11
57	Versicolor	57	28	45	10
58	Versico l or	63	33	47	16
59	Versicolor	70	32	47	14
60	Versicolor	64	32	45	15
61	Versico l or	61	28	40	13
62	Versicolor	55	24	38	1:

	results.	. Explorato	iy Dala A	ilalysis lui	ins _ba
Obs	Species	SepalLength	SepalWidth	PetalLength	PetalWidth
64	Versico l or	58	26	40	12
65	Versico l or	55	26	44	12
66	Versico l or	50	23	33	10
67	Versico l or	67	31	44	14
68	Versicolor	56	30	45	15
69	Versicolor	58	27	41	10
70	Versicolor	60	29	45	15
_					
71	Versicolor	57	26	35	10
72	Versico l or	57	29	42	13
73	Versico l or	49	24	33	10
74	Versicolor	56	27	42	13
75	Versico l or	57	30	42	12
76	Versico l or	66	29	46	13
77	Versico l or	52	27	39	14
78	Versico l or	60	34	45	16
79	Versico l or	50	20	35	10
80	Versico l or	55	24	37	10
81	Versico l or	58	27	39	12
82	Versico l or	62	29	43	13
83	Versico l or	59	30	42	15
84	Versico l or	60	22	40	10
85	Versicolor	67	31	47	15
86	Versicolor	63	23	44	13
87	Versicolor	56	30	41	13
88	Versicolor	63	25	49	15
_					
89	Versicolor	61	28	47	12
90	Versicolor	64	29	43	13
91	Versico l or	51	25	30	11
92	Versico l or	57	28	41	13
93	Versicolor	61	29	47	14
94	Versico l or	56	29	36	13
95	Versico l or	69	31	49	15
96	Versico l or	55	25	40	13
97	Versico l or	55	23	40	13
98	Versico l or	66	30	44	14
99	Versico l or	68	28	48	14
100	Versico l or	67	30	50	17
101	Virginica	64	28	56	22
102	Virginica	67	31	56	24
103	Virginica	63	28	51	15
104	Virginica	69	31	51	23
105	Virginica	65	30	52	20
106	Virginica	65	30	55	18
107	Virginica	58	27	51	19
108		68	32	59	23
_	Virginica				
109	Virginica	62	34	54	23
110	Virginica	77	38	67	22
111	Virginica	67	33	57	25
112	Virginica	76	30	66	21
113	Virginica	49	25	45	17
114	Virginica	67	30	52	23
115	Virginica	59	30	51	18
116	Virginica	63	25	50	19
117	Virginica	64	32	53	23
118	Virginica	79	38	64	20
119	Virginica	67	33	57	21
120	Virginica	77	28	67	20
121	Virginica	63	27	49	18
122	Virginica	72	32	60	18
123	Virginica	61	30	49	18
124	Virginica	61	26	56	14
125	Virginica	64	28	56	21
126	Virginica	62	28	48	18
127	Virginica	77	30	61	23
128	Virginica	63	34	56	24
129	Virginica	58	27	51	19
130	Virginica	72	30	58	16
131		71	30	59	21
_	Virginica				
132	Virginica	64	31	55	18
133	Virginica	60	30	48	18
134	Virginica	63	29	56	18
135	Virginica	77	26	69	23
136	Virginica	60	22	50	15
137	Virginica	69	32	57	23
138	Virginica	74	28	61	19

Obs	Species	SepalLength	SepalWidth	PetalLength	PetalWidth
139	Virginica	56	28	49	20
140	Virginica	73	29	63	18
141	Virginica	67	25	58	18
142	Virginica	65	30	58	22
143	Virginica	69	31	54	21
144	Virginica	72	36	61	25
145	Virginica	65	32	51	20
146	Virginica	64	27	53	19
147	Virginica	68	30	55	21
148	Virginica	57	25	50	20
149	Virginica	58	28	51	24
150	Virginica	63	33	60	25

The CONTENTS Procedure

Data Set Name	WORK.IRIS	Observations	150
Member Type	DATA	Variables	5
Engine	V9	Indexes	0
Created	02/11/2023 17:07:12	Observation Length	48
Last Modified	02/11/2023 17:07:12	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)		

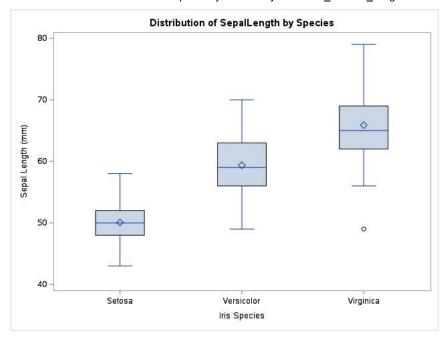
	Engine/Host Dependent Information
Data Set Page Size	131072
Number of Data Set Pages	1
First Data Page	1
Max Obs per Page	2722
Obs in First Data Page	150
Number of Data Set Repairs	0
Filename	$/saswork/SAS_work162C00017439_odaws03-usw2.oda.sas.com/SAS_work07F200017439_odaws03-usw2.oda.sas.com/iris.sas7bdatassas.com/saswork/SAS_work162C00017439_odaws03-usw2.oda.sas.com/saswork/SAS_work07F200017439_odaws03-usw2.oda.sas.com/iris.sas7bdatassas.com/saswork/SAS_work07F200017439_odaws03-usw2.oda.sas.com/saswork/SAS_work07F200017439_odaws03-usw2.oda.sas.com/saswork/SAS_work07F200017439_odaws03-usw2.oda.sas.com/saswork/SAS_work07F200017439_odaws03-usw2.oda.sas.com/saswork/SAS_work07F200017439_odaws03-usw2.oda.sas.com/saswork/SAS_work07F200017439_odaws03-usw2.oda.sas.com/saswork/SAS_work07F200017439_odaws03-usw2.oda.sas.com/saswork/SAS_work07F200017439_odaws03-usw2.oda.sas.com/saswork/SAS_work07F200017439_odaws03-usw2.oda.sas.com/saswork/SAS_work07F200017439_odaws03-usw2.oda.sas.com/saswork/SAS_work07F200017439_odaws03-usw2.oda.saswork/SAS_work07F200017439_odaws03-usw2.oda.saswork/SAS_work07F200017439_odaws03-usw2.oda.saswork/SAS_work07F200017439_odaws03-usw2.oda.saswork/SAS_work07F200017439_odaws03-usw2.oda.saswork/SAS_work07F200017439_odaws03-usw2.oda.saswork/SAS_work07F200017439_odaws03-usw2.oda.saswork/SAS_work07F200017439_odaws03-usw2.oda.saswork/SAS_work07F200017439_odaws03-usw2.oda.saswork/SAS_work07F200017439_odaws03-usw2.oda.saswork/SAS_work07F200017439_odaws03-usw2.oda.saswork/SAS_work07F200017439_odaws03-usw2.oda.saswork/SAS_work07F200017439_odaws07-usw2.oda.saswork/SAS_work07F200017439_odaws07-usw2.oda.saswork/SAS_work07F200017439_odaws07-usw2.oda.saswork/SAS_work07-usw2.oda$
Release Created	9.0401M7
Host Created	Linux
Inode Number	1610629643
Access Permission	ſ₩-ſſ
Owner Name	u58947900
File Size	256KB
File Size (bytes)	262144

Alphabetic List of Variables and Attributes						
#	Variable	Type	Len	Label		
4	PetalLength	Num	8	Petal Length (mm)		
5	PetalWidth	Num	8	Petal Width (mm)		
2	SepalLength	Num	8	Sepal Length (mm)		
3	SepalWidth	Num	8	Sepal Width (mm)		
1	Species	Char	10	Iris Species		

Obs	Species	SepalLength	SepalWidth	PetalLength	PetalWidth
1	Setosa	50	33	14	2
2	Setosa	46	34	14	3
3	Setosa	46	36	10	2
4	Setosa	51	33	17	5
5	Setosa	55	35	13	2
6	Setosa	48	31	16	2
7	Setosa	52	34	14	2
8	Setosa	49	36	14	1
9	Setosa	44	32	13	2
10	Setosa	50	35	16	6
11	Setosa	44	30	13	2
12	Setosa	47	32	16	2
13	Setosa	48	30	14	3
14	Setosa	51	38	16	2
15	Setosa	48	34	19	2
16	Setosa	50	30	16	2
17	Setosa	50	32	12	2
18	Setosa	43	30	11	1
19	Setosa	58	40	12	2
20	Setosa	51	38	19	4
21	Setosa	49	30	14	2

	Results	. Explorato	ry Data A	naiysis ioi	ins _ba
Obs	Species	SepalLength	SepalWidth	PetalLength	PetalWidth
22	Setosa	51	35	14	2
23	Setosa	50	34	16	4
24	Setosa	46	32	14	2
25	Setosa	57	44	15	4
26	Setosa	50	36	14	2
27	Setosa	54	34	15	4
28	Setosa	52	41	15	1
29	Setosa	55	42	14	2
30	Setosa	49	31	15	2
31	Setosa	54	39	17	4
32	Setosa	50	34	15	2
33	Setosa	44	29	14	2
34	Setosa	47	32	13	2
35	Setosa	46	31	15	2
_					
36	Setosa	51	34	15	2
37	Setosa	50	35	13	3
38	Setosa	49	31	15	1
39	Setosa	54	37	15	2
40	Setosa	54	39	13	4
41	Setosa	51	35	14	3
42	Setosa	48	34	16	2
43	Setosa	48	30	14	1
44	Setosa	45	23	13	3
45	Setosa	57	38	17	3
46	Setosa	51	38	15	3
47	Setosa	54	34	17	2
48	Setosa	51	37	15	4
49	Setosa	52	35	15	2
50	Setosa	53	37	15	2
51	Versico l or	65	28	46	15
52	Versico l or	62	22	45	15
53	Versicolor	59	32	48	18
54	Versico l or	61	30	46	14
55	Versico l or	60	27	51	16
56	Versico l or	56	25	39	11
57	Versico l or	57	28	45	13
58	Versicolor	63	33	47	16
59	Versico l or	70	32	47	14
60	Versico l or	64	32	45	15
61	Versico l or	61	28	40	13
62	Versico l or	55	24	38	11
63	Versico l or	54	30	45	15
64	Versicolor	58	26	40	12
65	Versicolor	55	26	44	12
66	Versico l or	50	23	33	10
67	Versico l or	67	31	44	14
68	Versico l or	56	30	45	15
69	Versico l or	58	27	41	10
70	Versico l or	60	29	45	15
71	Versicolor	57	26	35	10
72	Versicolor	57	29	42	13
73	Versico l or	49	24	33	10
74	Versicolor	56	27	42	13
75	Versicolor	57	30	42	12
76	Versicolor	66	29	46	13
77	Versicolor	52	27	39	14
78	Versicolor	60	34	45	16
79	Versicolor	50	20	35	10
80	Versicolor	55	24	37	10
81	Versicolor	58	27	39	12
82	Versicolor	62	29	43	13
83	Versicolor	59	30	42	15
84	Versicolor	60	22	40	10
85	Versicolor	67	31	47	15
86	Versicolor	63	23	44	13
87	Versicolor	56	30	41	13
88			25	41	15
89	Versicolor	63	25	49	15
_	Versicolor	61	28	47	12
90	Versicolor				
91	Versicolor	51	25	30	11
92	Versicolor	57	28	41	13
93	Versicolor	61	29	47	14
94	Versicolor	56	29	36	13
95	Versicolor	69	31	49	15
96	Versico l or	55	25	40	13

Obs	Species	SepalLength	SepalWidth	PetalLength	PetalWidth
97	Versicolor	55	23	40	13
98	Versicolor	66	30	44	14
99	Versicolor	68	28	48	14
100	Versicolor	67	30	50	17
101	Virginica	64	28	56	22
102	Virginica	67	31	56	24
103	Virginica	63	28	51	15
104	Virginica	69	31	51	23
105	Virginica	65	30	52	20
106	Virginica	65	30	55	18
107	Virginica	58	27	51	19
108	Virginica	68	32	59	23
109	Virginica	62	34	54	23
110	Virginica	77	38	67	22
111	Virginica	67	33	57	25
112	Virginica	76	30	66	21
113	Virginica	49	25	45	17
114	Virginica	67	30	52	23
115	Virginica	59	30	51	18
116	Virginica	63	25	50	19
117	Virginica	64	32	53	23
118	Virginica	79	38	64	20
119	Virginica	67	33	57	21
120	Virginica	77	28	67	20
121	Virginica	63	27	49	18
122	Virginica	72	32	60	18
123	Virginica	61	30	49	18
124	Virginica	61	26	56	14
125	Virginica	64	28	56	21
126	Virginica	62	28	48	18
127	Virginica	77	30	61	23
128	Virginica	63	34	56	24
129	Virginica	58	27	51	19
130	Virginica	72	30	58	16
131	Virginica	71	30	59	21
132	Virginica	64	31	55	18
133	Virginica	60	30	48	18
134	Virginica	63	29	56	18
135	Virginica	77	26	69	23
136	Virginica	60	22	50	15
137	Virginica	69	32	57	23
138	Virginica	74	28	61	19
139	Virginica	56	28	49	20
140	Virginica	73	29	63	18
141	Virginica	67	25	58	18
142	Virginica	65	30	58	22
143	Virginica	69	31	54	21
144	Virginica	72	36	61	25
145	Virginica	65	32	51	20
146	Virginica	64	27	53	19
147	Virginica	68	30	55	21
148	Virginica	57	25	50	20
149	Virginica	58	28	51	24
150	Virginica	63	33	60	25



Obs	Species	SepalLength	SepalWidth	PetalLength	PetalWidth
1	Setosa	50	33	14	2
2	Setosa	46	34	14	3
3	Setosa	46	36	10	2
4	Setosa	51	33	17	
5	Setosa	55	35	13	:
6	Setosa	48	31	16	2
7	Setosa	52	34	14	:
8	Setosa	49	36	14	
9	Setosa	44	32	13	
10	Setosa	50	35	16	
11	Setosa	44	30	13	
12	Setosa	47	32	16	
13	Setosa	48	30	14	
14	Setosa	51	38	16	
15	Setosa	48	34	19	
16	Setosa	50	30	16	
17	Setosa	50	32	12	:
18	Setosa	43	30	11	
19	Setosa	58	40	12	
20	Setosa	51	38	19	
21	Setosa	49	30	14	
22	Setosa	51	35	14	
23	Setosa	50	34	16	
24	Setosa	46	32	14	
25	Setosa	57	44	15	
26	Setosa	50	36	14	
27	Setosa	54	34	15	
28	Setosa	52	41	15	
29	Setosa	55	42	14	
30	Setosa	49	31	15	
31	Setosa	54	39	17	
32	Setosa	50	34	15	
33	Setosa	44	29	14	
34	Setosa	47	32	13	
35	Setosa	46	31	15	
36	Setosa	51	34	15	
37	Setosa	50	35	13	
38	Setosa	49	31	15	
39	Setosa	54	37	15	
40	Setosa	54	39	13	
41	Setosa	51	35	14	
42	Setosa	48	34	16	
43	Setosa	48	30	14	
44	Setosa	45	23	13	:
45	Setosa	57	38	17	
46	Setosa	51	38	15	
47	Setosa	54	34	17	:

		i vesuits.	Explorato	iy Dala A	ilalysis lui	ins _ba
С)bs	Species	SepalLength	SepalWidth	PetalLength	PetalWidth
	48	Setosa	51	37	15	4
Г	49	Setosa	52	35	15	2
Г	50	Setosa	53	37	15	2
Г	51	Versico l or	65	28	46	15
Г	52	Versico l or	62	22	45	15
Н	53	Versico l or	59	32	48	18
Н	54	Versico l or	61	30	46	14
Н	55	Versico l or	60	27	51	16
Н	56	Versico l or	56	25	39	11
Н	57	Versicolor	57	28	45	13
Н	58	Versicolor	63	33	47	16
H	59	Versicolor	70	32	47	14
H	60	Versicolor	64	32	45	15
H	61	Versicolor	61	28	40	13
H	62	Versicolor	55	24	38	11
H	63	Versicolor	54	30	45	15
H	64	Versicolor	58	26	40	12
H	65	Versicolor	55	26	44	12
H						
H	66	Versicolor	50	23	33	10
H	67	Versicolor	67	31	44	14
L	68	Versicolor	56	30	45	15
L	69	Versicolor	58	27	41	10
L	70	Versicolor	60	29	45	15
L	71	Versicolor	57	26	35	10
L	72	Versicolor	57	29	42	13
L	73	Versicolor	49	24	33	10
L	74	Versicolor	56	27	42	13
L	75	Versicolor	57	30	42	12
L	76	Versicolor	66	29	46	13
L	77	Versicolor	52	27	39	14
L	78	Versicolor	60	34	45	16
H	79	Versicolor	50	20	35	10
H	80	Versicolor	55	24	37	10
H	81	Versicolor	58	27	39	12
L	82	Versicolor	62	29	43	13
L	83	Versicolor	59	30	42	15
H	84 85	Versicolor	60	22 31	40	10
H		Versicolor	67			15
H	86	Versicolor	63	23	44	13
H	87 88	Versicolor Versicolor	56 63	30 25	41	13 15
H	89	Versicolor	61	28	49	12
H	90	Versicolor	64	29	43	13
H	91	Versicolor	51	25	30	11
Н	92	Versicolor	57	28	41	13
H	93	Versicolor	61	29	47	14
Н	94	Versicolor	56	29	36	13
Н	95	Versicolor	69	31	49	15
Н	96	Versicolor	55	25	40	13
H	97	Versicolor	55	23	40	13
\vdash	98	Versicolor	66	30	44	14
	99	Versicolor	68	28	48	14
-	100	Versicolor	67	30	50	17
-	101	Virginica	64	28	56	22
-	102	Virginica	67	31	56	24
-	103	Virginica	63	28	51	15
-	103	Virginica	69	31	51	23
-	105	Virginica	65	30	52	20
\vdash	106	Virginica	65	30	55	18
-	107	Virginica	58	27	51	19
-	108	Virginica	68	32	59	23
-	109	Virginica	62	34	54	23
-	110	Virginica	77	38	67	22
-	111	Virginica	67	33	57	25
-	112	Virginica	76	30	66	21
-	113	Virginica	49	25	45	17
-	114	Virginica	67	30	52	23
-	115	Virginica	59	30	51	18
1	116	Virginica	63	25	50	19
1	117	Virginica	64	32	53	23
1	118	Virginica	79	38	64	20
1	119	Virginica	67	33	57	21
1	120	Virginica	77	28	67	20
1	121	Virginica	63	27	49	18
_1	122	Virginica	72	32	60	18

Obs Species SepalLength SepalWidth PetalLength PetalWidth 123 Virginica 61 30 49 18 124 Virginica 61 26 56 14 125 Virginica 62 28 48 18 127 Virginica 62 28 48 18 127 Virginica 63 34 56 24 128 Virginica 63 34 56 24 129 Virginica 58 27 51 19 130 Virginica 72 30 58 16 131 Virginica 64 31 55 18 132 Virginica 64 31 55 18 133 Virginica 63 29 56 18 134 Virginica 63 29 56 18 135 Virginica 60 22						
124 Virginica 61 26 56 14 125 Virginica 64 28 56 21 126 Virginica 62 28 48 18 127 Virginica 77 30 61 23 128 Virginica 63 34 56 24 129 Virginica 58 27 51 19 130 Virginica 72 30 58 16 131 Virginica 71 30 59 21 132 Virginica 64 31 55 18 133 Virginica 60 30 48 18 134 Virginica 63 29 56 18 135 Virginica 63 29 56 18 135 Virginica 60 22 50 15 137 Virginica 60 22 50 15 </th <th>Obs</th> <th>Species</th> <th>SepalLength</th> <th>SepalWidth</th> <th>PetalLength</th> <th>PetalWidth</th>	Obs	Species	SepalLength	SepalWidth	PetalLength	PetalWidth
125 Virginica 64 28 56 21 126 Virginica 62 28 48 18 127 Virginica 77 30 61 23 128 Virginica 63 34 56 24 129 Virginica 58 27 51 19 130 Virginica 72 30 58 16 131 Virginica 71 30 59 21 132 Virginica 64 31 55 18 133 Virginica 60 30 48 18 134 Virginica 63 29 56 18 135 Virginica 77 26 69 23 136 Virginica 60 22 50 15 137 Virginica 69 32 57 23 138 Virginica 74 28 61 19 </th <th>123</th> <td>Virginica</td> <td>61</td> <td>30</td> <td>49</td> <td>18</td>	123	Virginica	61	30	49	18
126 Virginica 62 28 48 18 127 Virginica 77 30 61 23 128 Virginica 63 34 56 24 129 Virginica 58 27 51 19 130 Virginica 72 30 58 16 131 Virginica 71 30 59 21 132 Virginica 64 31 55 18 133 Virginica 60 30 48 18 134 Virginica 63 29 56 18 135 Virginica 77 26 69 23 136 Virginica 60 22 50 15 137 Virginica 69 32 57 23 138 Virginica 74 28 61 19 139 Virginica 56 28 49 20 </th <th>124</th> <td>Virginica</td> <td>61</td> <td>26</td> <td>56</td> <td>14</td>	124	Virginica	61	26	56	14
127 Virginica 77 30 61 23 128 Virginica 63 34 56 24 129 Virginica 58 27 51 19 130 Virginica 72 30 58 16 131 Virginica 71 30 59 21 132 Virginica 64 31 55 18 133 Virginica 60 30 48 18 134 Virginica 63 29 56 18 135 Virginica 63 29 56 18 135 Virginica 60 22 50 15 137 Virginica 60 22 50 15 137 Virginica 69 32 57 23 138 Virginica 74 28 61 19 139 Virginica 73 29 63 18 </th <th>125</th> <td>Virginica</td> <td>64</td> <td>28</td> <td>56</td> <td>21</td>	125	Virginica	64	28	56	21
128 Virginica 63 34 56 24 129 Virginica 58 27 51 19 130 Virginica 72 30 58 16 131 Virginica 71 30 59 21 132 Virginica 64 31 55 18 133 Virginica 60 30 48 18 134 Virginica 63 29 56 18 135 Virginica 63 29 56 18 135 Virginica 60 22 50 15 136 Virginica 60 22 50 15 137 Virginica 69 32 57 23 138 Virginica 74 28 61 19 139 Virginica 73 29 63 18 140 Virginica 67 25 58 18 </th <th>126</th> <td>Virginica</td> <td>62</td> <td>28</td> <td>48</td> <td>18</td>	126	Virginica	62	28	48	18
129 Virginica 58 27 51 19 130 Virginica 72 30 58 16 131 Virginica 71 30 59 21 132 Virginica 64 31 55 18 133 Virginica 60 30 48 18 134 Virginica 63 29 56 18 135 Virginica 63 29 56 18 135 Virginica 60 22 50 15 137 Virginica 60 22 50 15 137 Virginica 69 32 57 23 138 Virginica 74 28 61 19 139 Virginica 73 29 63 18 140 Virginica 67 25 58 18 142 Virginica 65 30 58 22 </th <th>127</th> <td>Virginica</td> <td>77</td> <td>30</td> <td>61</td> <td>23</td>	127	Virginica	77	30	61	23
130 Virginica 72 30 58 16 131 Virginica 71 30 59 21 132 Virginica 64 31 55 18 133 Virginica 60 30 48 18 134 Virginica 63 29 56 18 135 Virginica 63 29 56 18 135 Virginica 60 22 50 15 137 Virginica 69 32 57 23 138 Virginica 74 28 61 19 139 Virginica 56 28 49 20 140 Virginica 67 25 58 18 141 Virginica 65 30 58 22 142 Virginica 65 30 58 22 143 Virginica 69 31 54 21 </th <th>128</th> <td>Virginica</td> <td>63</td> <td>34</td> <td>56</td> <td>24</td>	128	Virginica	63	34	56	24
131 Virginica 71 30 59 21 132 Virginica 64 31 55 18 133 Virginica 60 30 48 18 134 Virginica 63 29 56 18 135 Virginica 77 26 69 23 136 Virginica 60 22 50 15 137 Virginica 69 32 57 23 138 Virginica 74 28 61 19 139 Virginica 56 28 49 20 140 Virginica 73 29 63 18 141 Virginica 67 25 58 18 142 Virginica 65 30 58 22 143 Virginica 65 30 58 22 144 Virginica 72 36 61 25 </th <th>129</th> <td>Virginica</td> <td>58</td> <td>27</td> <td>51</td> <td>19</td>	129	Virginica	58	27	51	19
132 Virginica 64 31 55 18 133 Virginica 60 30 48 18 134 Virginica 63 29 56 18 135 Virginica 77 26 69 23 136 Virginica 60 22 50 15 137 Virginica 69 32 57 23 138 Virginica 74 28 61 19 139 Virginica 56 28 49 20 140 Virginica 67 25 58 18 141 Virginica 67 25 58 18 142 Virginica 65 30 58 22 143 Virginica 69 31 54 21 144 Virginica 72 36 61 25 145 Virginica 65 32 51 20 </th <th>130</th> <td>Virginica</td> <td>72</td> <td>30</td> <td>58</td> <td>16</td>	130	Virginica	72	30	58	16
133 Virginica 60 30 48 18 134 Virginica 63 29 56 18 135 Virginica 77 26 69 23 136 Virginica 60 22 50 15 137 Virginica 69 32 57 23 138 Virginica 74 28 61 19 139 Virginica 56 28 49 20 140 Virginica 67 25 58 18 141 Virginica 67 25 58 18 142 Virginica 65 30 58 22 143 Virginica 69 31 54 21 144 Virginica 72 36 61 25 145 Virginica 65 32 51 20 146 Virginica 64 27 53 19 </th <th>131</th> <td>Virginica</td> <td>71</td> <td>30</td> <td>59</td> <td>21</td>	131	Virginica	71	30	59	21
134 Virginica 63 29 56 18 135 Virginica 77 26 69 23 136 Virginica 60 22 50 15 137 Virginica 69 32 57 23 138 Virginica 74 28 61 19 139 Virginica 56 28 49 20 140 Virginica 67 25 58 18 141 Virginica 65 30 58 22 143 Virginica 69 31 54 21 144 Virginica 72 36 61 25 145 Virginica 65 32 51 20 146 Virginica 64 27 53 19 147 Virginica 68 30 55 21 148 Virginica 57 25 50 20 </th <th>132</th> <td>Virginica</td> <td>64</td> <td>31</td> <td>55</td> <td>18</td>	132	Virginica	64	31	55	18
135 Virginica 77 26 69 23 136 Virginica 60 22 50 15 137 Virginica 69 32 57 23 138 Virginica 74 28 61 19 139 Virginica 56 28 49 20 140 Virginica 67 25 58 18 141 Virginica 67 25 58 18 142 Virginica 65 30 58 22 143 Virginica 69 31 54 21 144 Virginica 72 36 61 25 145 Virginica 65 32 51 20 146 Virginica 64 27 53 19 147 Virginica 68 30 55 21 148 Virginica 57 25 50 20 </th <th>133</th> <td>Virginica</td> <td>60</td> <td>30</td> <td>48</td> <td>18</td>	133	Virginica	60	30	48	18
136 Virginica 60 22 50 15 137 Virginica 69 32 57 23 138 Virginica 74 28 61 19 139 Virginica 56 28 49 20 140 Virginica 73 29 63 18 141 Virginica 67 25 58 18 142 Virginica 65 30 58 22 143 Virginica 69 31 54 21 144 Virginica 72 36 61 25 145 Virginica 65 32 51 20 146 Virginica 64 27 53 19 147 Virginica 68 30 55 21 148 Virginica 57 25 50 20 149 Virginica 58 28 51 24 </th <th>134</th> <td>Virginica</td> <td>63</td> <td>29</td> <td>56</td> <td>18</td>	134	Virginica	63	29	56	18
137 Virginica 69 32 57 23 138 Virginica 74 28 61 19 139 Virginica 56 28 49 20 140 Virginica 73 29 63 18 141 Virginica 67 25 58 18 142 Virginica 65 30 58 22 143 Virginica 69 31 54 21 144 Virginica 72 36 61 25 145 Virginica 65 32 51 20 146 Virginica 64 27 53 19 147 Virginica 68 30 55 21 148 Virginica 57 25 50 20 149 Virginica 58 28 51 24	135	Virginica	77	26	69	23
138 Virginica 74 28 61 19 139 Virginica 56 28 49 20 140 Virginica 73 29 63 18 141 Virginica 67 25 58 18 142 Virginica 65 30 58 22 143 Virginica 69 31 54 21 144 Virginica 72 36 61 25 145 Virginica 65 32 51 20 146 Virginica 64 27 53 19 147 Virginica 68 30 55 21 148 Virginica 57 25 50 20 149 Virginica 58 28 51 24	136	Virginica	60	22	50	15
139 Virginica 56 28 49 20 140 Virginica 73 29 63 18 141 Virginica 67 25 58 18 142 Virginica 65 30 58 22 143 Virginica 69 31 54 21 144 Virginica 72 36 61 25 145 Virginica 65 32 51 20 146 Virginica 64 27 53 19 147 Virginica 68 30 55 21 148 Virginica 57 25 50 20 149 Virginica 58 28 51 24	137	Virginica	69	32	57	23
140 Virginica 73 29 63 18 141 Virginica 67 25 58 18 142 Virginica 65 30 58 22 143 Virginica 69 31 54 21 144 Virginica 72 36 61 25 145 Virginica 65 32 51 20 146 Virginica 64 27 53 19 147 Virginica 68 30 55 21 148 Virginica 57 25 50 20 149 Virginica 58 28 51 24	138	Virginica	74	28	61	19
141 Virginica 67 25 58 18 142 Virginica 65 30 58 22 143 Virginica 69 31 54 21 144 Virginica 72 36 61 25 145 Virginica 65 32 51 20 146 Virginica 64 27 53 19 147 Virginica 68 30 55 21 148 Virginica 57 25 50 20 149 Virginica 58 28 51 24	139	Virginica	56	28	49	20
142 Virginica 65 30 58 22 143 Virginica 69 31 54 21 144 Virginica 72 36 61 25 145 Virginica 65 32 51 20 146 Virginica 64 27 53 19 147 Virginica 68 30 55 21 148 Virginica 57 25 50 20 149 Virginica 58 28 51 24	140	Virginica	73	29	63	18
143 Virginica 69 31 54 21 144 Virginica 72 36 61 25 145 Virginica 65 32 51 20 146 Virginica 64 27 53 19 147 Virginica 68 30 55 21 148 Virginica 57 25 50 20 149 Virginica 58 28 51 24	141	Virginica	67	25	58	18
144 Virginica 72 36 61 25 145 Virginica 65 32 51 20 146 Virginica 64 27 53 19 147 Virginica 68 30 55 21 148 Virginica 57 25 50 20 149 Virginica 58 28 51 24	142	Virginica	65	30	58	22
145 Virginica 65 32 51 20 146 Virginica 64 27 53 19 147 Virginica 68 30 55 21 148 Virginica 57 25 50 20 149 Virginica 58 28 51 24	143	Virginica	69	31	54	21
146 Virginica 64 27 53 19 147 Virginica 68 30 55 21 148 Virginica 57 25 50 20 149 Virginica 58 28 51 24	144	Virginica	72	36	61	25
147 Virginica 68 30 55 21 148 Virginica 57 25 50 20 149 Virginica 58 28 51 24	145	Virginica	65	32	51	20
148 Virginica 57 25 50 20 149 Virginica 58 28 51 24	146	Virginica	64	27	53	19
149 Virginica 58 28 51 24	147	Virginica	68	30	55	21
_	148	Virginica	57	25	50	20
150 Virginica 63 33 60 25	149	Virginica	58	28	51	24
	150	Virginica	63	33	60	25

The UNIVARIATE Procedure Variable: SepalLength (Sepal Length (mm))

Moments N 150 Sum Weights 150 58.4333333 Sum Observations 8765 Mean Std Deviation 8.28066128 Variance 68.5693512 0.31491096 Kurtosis -0.552064 Uncorrected SS 522385 Corrected SS 10216.8333 Coeff Variation 14.171126 Std Error Mean 0.67611316

Basic Statistical Measures					
Loc	Location Variability				
Mean	58.43333	Std Deviation	8.28066		
Median	58.00000	Variance	68.56935		
Mode	50.00000	Range	36.00000		
		Interquartile Range	13.00000		

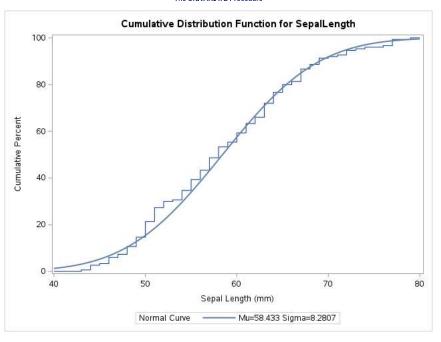
Tests for Location: Mu0=0					
Test		Statistic	stic p Value		
Student's t	t	86.42537	Pr > t	<.0001	
Sign	М	75	Pr >= [M]	<.0001	
Signed Rank	s	5662.5	Pr >= S	<.0001	

Quantiles (Definition 5)		
Level	Quantile	
100% Max	79	
99%	77	
95%	73	
90%	69	
75% Q3	64	
50% Median	58	
25% Q1	51	
10%	48	
5%	46	
1%	44	
0% Min	43	

Extreme Observations					
Lowest		Highest			
Value Obs Value Ob					
43	18	77	110		
44	33	77	120		
44	11	77	127		
44	9	77	135		

Extreme Observations					
Low	est	Highest			
Value	Obs	Value	Obs		
45	44	79	118		

The UNIVARIATE Procedure



The UNIVARIATE Procedure Variable: SepalWidth (Sepal Width (mm))

	Мо	ments	
N	150	Sum Weights	150
Mean	30.5733333	Sum Observations	4586
Std Deviation	4.35866285	Variance	18.9979418
Skewness	0.31896566	Kurtosis	0.22824904
Uncorrected SS	143040	Corrected SS	2830.69333
Coeff Variation	14.2564201	Std Error Mean	0.35588333

Basic Statistical Measures					
Location		Variability			
Mean 30.57333 Median 30.00000 Mode 30.00000		Std Deviation	4.35866		
		Variance	18.99794		
		Range	24.00000		
		Interquartile Range	5.00000		

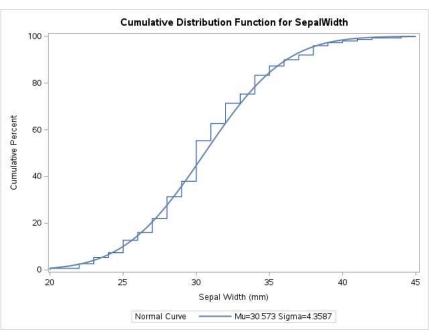
Tests for Location: Mu0=0					
Test	s	statistic	p Val	lue	
Student's t	t	85.9083	Pr > t	<.0001	
Sign	М	75	Pr >= M	<.0001	
Signed Rank	S	5662.5	Pr >= S	<.0001	

Level Qua 100% Max 99%	antile 44.0
	44.0
99%	
	42.0
95%	38.0
90%	36.5
75% Q3	33.0
50% Median	30.0
25% Q1	28.0
10%	25.0
5%	23.0
1%	22.0
0% Min	20.0

Extreme Observations					
Low	est	Highest			
Value	Obs	Value	Obs		
20	79	39	40		

Extreme Observations						
Low	est	Highest				
Value	Obs	Value	Obs			
22	136	40	19			
22	84	41	28			
22	52	42	29			
23	97	44	25			

The UNIVARIATE Procedure



The UNIVARIATE Procedure Variable: PetalLength (Petal Length (mm))

Moments						
N	150	Sum Weights	150			
Mean	37.58	Sum Observations	5637			
Std Deviation	17.6529823	Variance	311.627785			
Skewness	-0.2748842	Kurtosis	-1.4021034			
Uncorrected SS	258271	Corrected SS	46432.54			
Coeff Variation	46.9744075	Std Error Mean	1.44135997			

Basic Statistical Measures					
Location		Variability			
Mean 37.58000		Std Deviation	17.65298		
Median	43.50000	Variance	311.62779		
Mode	14.00000	Range	59.00000		
		Interquartile Range	35.00000		

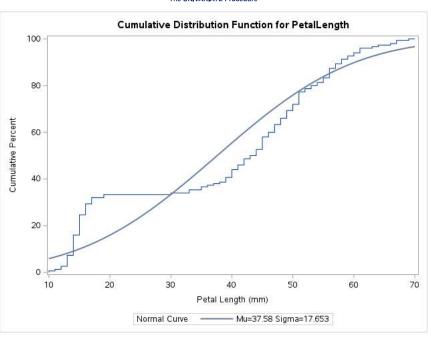
Note: The mode displayed is the smallest of 2 modes with a count of 13.

Tests for Location: Mu0=0					
Test	s	Statistic	p Val	lue	
Student's t	t	26.0726	Pr > t	<.0001	
Sign	М	75	Pr >= M	<.0001	
Signed Rank	s	5662.5	Pr >= S	<.0001	

Quantiles (De	efinition 5)
Level	Quantile
100% Max	69.0
99%	67.0
95%	61.0
90%	58.0
75% Q3	51.0
50% Median	43.5
25% Q1	16.0
10%	14.0
5%	13.0
1%	11.0
0% Min	10.0

Extreme Observations					
Low	Lowest		est		
Value	Obs	Value	Obs		
10	3	64	118		
11	18	66	112		
12	19	67	110		
12	17	67	120		
13	44	69	135		

The UNIVARIATE Procedure



The UNIVARIATE Procedure Variable: PetalWidth (Petal Width (mm))

Moments						
N 150		Sum Weights	150			
Mean	11.9933333	Sum Observations	1799			
Std Deviation	7.62237669	Variance	58.1006264			
Skewness	-0.1029667	Kurtosis	-1.340604			
Uncorrected SS	30233	Corrected SS	8656.99333			
Coeff Variation	63.5551141	Std Error Mean	0.62236445			

Basic Statistical Measures					
Location		Variability			
Mean	11.99333	Std Deviation	7.62238		
Median	13.00000	Variance	58.10063		
Mode	2.00000	Range	24.00000		
		Interquartile Range	15.00000		

Tests for Location: Mu0=0						
Test	Statistic		p Value			
Student's t	t	19.2706	Pr > t	<.0001		
Sign	М	75	Pr >= M	<.0001		
Signed Rank	S	5662.5	Pr >= S	<.0001		

Quantiles (Definition 5)				
Level	Quantile			
100% Max	25			
99%	25			
95%	23			
90%	22			
75% Q3	18			
50% Median	13			
25% Q1	3			
10%	2			
5%	2			
1%	1			
0% Min	1			

Extreme Observations						
Low	est	Highest				
Value	Obs	Value	Obs			
1	43	24	128			
1	38	24	149			
1	28	25	111			
1	18	25	144			
1	8	25	150			

The UNIVARIATE Procedure

