Ten rows and five columns of the fat data set

Obs	case	fat_brozek	fat_siri	dens	age
1	1	12.6	12.3	1.0708	23
2	2	6.9	6.1	1.0853	22
3	3	24.6	25.3	1.0414	22
4	4	10.9	10.4	1.0751	26
5	5	27.8	28.7	1.0340	24
6	6	20.6	20.9	1.0502	24
7	7	19.0	19.2	1.0549	26
8	8	12.8	12.4	1.0704	25
9	9	5.1	4.1	1.0900	25
10	10	12.0	11.7	1.0722	23

Data Set Name	INTRO.FAT	Observations	252
Member Type	DATA	Variables	19
Engine	V9	Indexes	0
Created	06/16/2022 13:50:26	Observation Length	152
Last Modified	06/16/2022 13:50:26	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	WINDOWS_64		
Encoding	wlatin1 Western (Windows)		

Engine/Host Dependent Information						
Data Set Page Size	65536					
Number of Data Set Pages	1					
First Data Page	1					
Max Obs per Page	430					
Obs in First Data Page	252					
Number of Data Set Repairs	0					
ExtendObsCounter	YES					
Filename	q:\introduction-to-sas\data\fat.sas7bdat					
Release Created	9.0401M3					
Host Created	X64_8PRO					

	Alphab	etic List	of Var	iables and Attributes
#	Variable	Туре	Len	Label
12	abdomen	Num	8	Abdomen circumference (cm)
5	age	Num	8	Age (yrs)
16	ankle	Num	8	Ankle circumference (cm)
17	biceps	Num	8	Biceps circumference (cm)
8	bmi	Num	8	Body mass index (kg/m^2)
1	case	Num	8	Case number
11	chest	Num	8	Chest circumference (cm)
4	dens	Num	8	Density
2	fat_brozek	Num	8	Fat (Brozek's equation)
3	fat_siri	Num	8	Fat (Siri's equation)

	Alphab	etic List	of Var	iables and Attributes
#	Variable	Туре	Len	Label
9	ffw	Num	8	Fat Free Weight (lbs)
18	forearm	Num	8	Forearm circumference (cm)
13	hip	Num	8	Hip circumference (cm)
7	ht	Num	8	Height (inches)
15	knee	Num	8	Knee circumference (cm)
10	neck	Num	8	Neck circumference (cm)
14	thigh	Num	8	Thigh circumference (cm)
19	wrist	Num	8	Wrist circumference (cm)
6	wt	Num	8	Weight (lbs)

Descriptive statistics for ht Notice the unusual minimum

The MEANS Procedure

Analysis Variable : ht Height (inches)					
N	Mean	Std Dev	Minimum	Maximum	
252	70.1488095	3.6628558	29.5000000	77.7500000	

Obs	case	fat_brozek	fat_siri	dens	age	wt	ht	bmi	ffw	neck	chest
1	42	31.7	32.9	1.025	44	205	29.5	29.9	140.1	36.6	106

Obs	abdomen	hip	thigh	knee	ankle	biceps	forearm	wrist
1	104.3	115.5	70.6	42.5	23.7	33.6	28.7	17.4

This seems quite normal to me

Obs	case	fat_brozek	fat_siri	dens	age	wt	ht	bmi	ffw	neck	chest
1	96	17.3	17.4	1.0991	53	224.5	77.75	26.1	185.7	41.1	113.2

Obs	abdomen	hip	thigh	knee	ankle	biceps	forearm	wrist
1	99.2	107.5	61.7	42.3	23.2	32.9	30.8	20.4

Data Set Name	INTRO.FAT	Observations	252
Member Type	DATA	Variables	19
Engine	V9	Indexes	0
Created	06/16/2022 13:50:27	Observation Length	152
Last Modified	06/16/2022 13:50:27	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	YES
Label			
Data Representation	WINDOWS_64		
Encoding	wlatin1 Western (Windows)		

Engine/Host Dependent Information						
Data Set Page Size	65536					
Number of Data Set Pages	1					
First Data Page	1					
Max Obs per Page	430					
Obs in First Data Page	252					
Number of Data Set Repairs	0					
ExtendObsCounter	YES					
Filename	q:\introduction-to-sas\data\fat.sas7bdat					
Release Created	9.0401M3					
Host Created	X64_8PRO					

	Alphabetic List of Variables and Attributes										
#	Variable	Туре	Len	Label							
12	abdomen	Num	8	Abdomen circumference (cm)							
5	age	Num	8	Age (yrs)							
16	ankle	Num	8	Ankle circumference (cm)							
17	biceps	Num	8	Biceps circumference (cm)							
8	bmi	Num	8	Body mass index (kg/m^2)							
1	case	Num	8	Case number							
11	chest	Num	8	Chest circumference (cm)							
4	dens	Num	8	Density							
2	fat_brozek	Num	8	Fat (Brozek's equation)							
3	fat_siri	Num	8	Fat (Siri's equation)							

	Alphabetic List of Variables and Attributes										
# Variable Type Len Label				Label							
9	ffw	Num	8	Fat Free Weight (lbs)							
18	forearm	Num	8	Forearm circumference (cm)							
13	hip	Num	8	Hip circumference (cm)							
7	ht	Num	8	Height (inches)							
15	knee	Num	8	Knee circumference (cm)							
10	neck	Num	8	Neck circumference (cm)							
14	thigh	Num	8	Thigh circumference (cm)							
19	wrist	Num	8	Wrist circumference (cm)							
6	wt	Num	8	Weight (lbs)							

Sort Information						
Sortedby	DESCENDING ht					
Validated	YES					
Character Set	ANSI					

Obs	case	fat_brozek	fat_siri	dens	age	wt	ht	bmi	ffw	neck	chest
252	42	31.7	32.9	1.025	44	205		29.9	140.1	36.6	106

Obs	abdomen	hip	thigh	knee	ankle	biceps	forearm	wrist
252	104.3	115.5	70.6	42.5	23.7	33.6	28.7	17.4

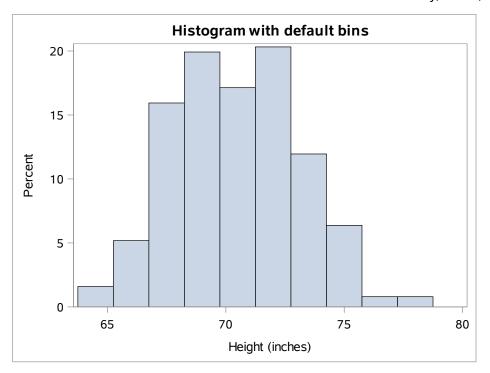
Using the nmiss statistic

The MEANS Procedure

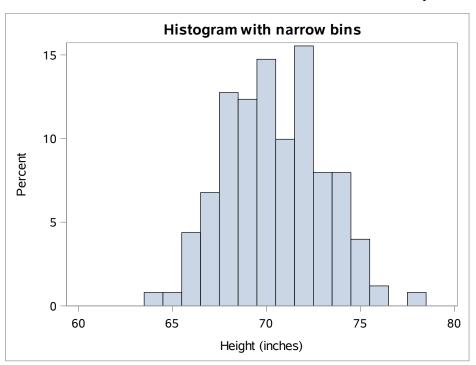
	Analysis Variable : ht Height (inches)									
N	N Miss	Mean	Std Dev	Minimum	Maximum					
251	1	70.3107570	2.6142960	64.0000000	77.7500000					

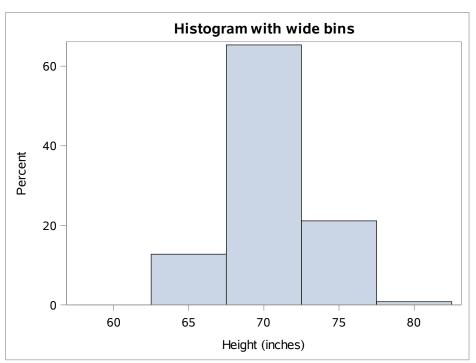
16

Obs	ht	ht_cm	wt	wt_kg
1	77.75	197.49	224.50	102.05
2	77.50	196.85	188.15	85.52
3	76.00	193.04	216.00	98.18
4	76.00	193.04	244.25	111.02
5	75.50	191.77	194.00	88.18
6	75.25	191.14	171.50	77.95
7	75.00	190.50	212.75	96.70
8	74.75	189.87	210.25	95.57
9	74.75	189.87	224.75	102.16
10	74.50	189.23	186.25	84.66



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Correlation matrix

The CORR Procedure

10 With Variables:	neck	chest	abdomen	hip	thigh	knee	ankle	biceps	forearm	wrist
2 Variables:	fat_broz	zek fat_si	ri							

n Coefficients, N	= 252
fat_brozek	fat_siri
0.49149	0.49059
0.70289	0.70262
0.81371	0.81343
0.62570	0.62520
0.56128	0.55961
	fat_brozek 0.49149 0.70289 0.81371 0.62570

Correlation matrix

The CORR Procedure

Pearson Correlation Coefficients, N = 252							
	fat_brozek	fat_siri					
knee Knee circumference (cm)	0.50779	0.50867					
ankle Ankle circumference (cm)	0.26678	0.26597					
biceps Biceps circumference (cm)	0.49303	0.49327					
forearm Forearm circumference (cm)	0.36328	0.36139					
wrist Wrist circumference (cm)	0.34757	0.34657					

Correlation matrix output to a data set

Obs	_TYPE_	_NAME_	fat_brozek	fat_siri
1	MEAN		18.938	19.151
2	STD		7.751	8.369
3	N		252.000	252.000
4	CORR	neck	0.491	0.491
5	CORR	chest	0.703	0.703
6	CORR	abdomen	0.814	0.813
7	CORR	hip	0.626	0.625
8	CORR	thigh	0.561	0.560
9	CORR	knee	0.508	0.509
10	CORR	ankle	0.267	0.266
11	CORR	biceps	0.493	0.493

Correlation matrix output to a data set

Obs	_TYPE_	_NAME_	fat_brozek	fat_siri
12	CORR	forearm	0.363	0.361
13	CORR	wrist	0.348	0.347

Rounded and re-ordered correlation matrix

Obs	_NAME_	fat_brozek	fat_siri
1	abdomen	81	81
2	chest	70	70
3	hip	63	63
4	thigh	56	56
5	knee	51	51
6	neck	49	49
7	biceps	49	49
8	forearm	36	36
9	wrist	35	35
10	ankle	27	27

