

NORMALIZATION OF CHOLESTEROL DATA

BY TAKING FOUR VARIABLES 100 DATA POINTS EACH

CHOLESTEROL DATA BEFORE NORMALIZATION

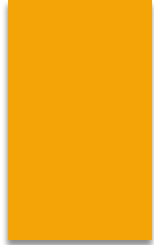
Body_FAT	Weight	Neck_Circ	Chest_Circ
12.3	70.1	36.2	93.1
6.1	78.8	38.5	93.6
25.3	70	34	95.8
10.4	84	37.4	101.8
28.7	83.8	34.4	97.3
20.9	95.6	39	104.5
19.2	82.3	36.4	105.1
12.4	80	37.8	99.6
4.1	86.8	38.1	100.9
11.7	90.1	42.1	99.6
7.1	84.7	38.5	101.5
7.8	98.2	39.4	103.6
20.8	82	38.4	102
21.2	93.3	39.4	104.1
22.1	85.3	40.5	101.3
20.9	74	36.4	99.1
29	89	38.9	101.9
22.9	95.1	42.1	107.6
16	83.5	38	106.8
16.5	96.3	40	106.2
19.1	81.4	39.1	103.3
15.2	91.1	41.3	111.4
15.6	63.8	33.9	86
17.7	67.6	35.5	86.7

14	68.8	34.5	90.2
3.7	72.4	35.7	89.6
22.9	67.3	38.8	97.4
3.7	60.6	36.4	93.5
8.8	73.1	36.7	97.4
5.7	72.8	37.3	93.5
11.8	76.4	38.1	93
21.3	99.3	39.8	111.7
32.3	112.4	42.1	117
40.1	87.2	38.4	118.5
24.2	91.9	38.5	106.5
28.4	89.4	42.1	105.6
32.6	92.3	40.2	114.8
32.9	93.2	36.6	106
31.6	98.6	37.3	113.3
32	96.4	41.5	106.6
7.7	56.9	31.5	85.1
13.9	74.7	35.7	96.6
10.8	60.7	33.6	88.2
5.6	67.5	34.6	89.8
13.6	61.7	32.8	92.3
4	58	34	83.4
10.2	71.9	34.9	90.2
6.6	63.3	34.3	89.2
8	62.4	36.5	89.7

6.3	69.4	35.1	93.3
3.9	61.9	37.8	87.6
22.6	90	39.9	107.6
20.4	82.5	39.1	100
28	91.5	40.5	111.5
31.5	92	40.5	115.4
24.6	81.7	38.4	104.8
26.1	98.2	41.4	112.3
29.8	81.3	35.6	102.9
30.7	87.8	38	107.6
25.8	80.9	37.4	105.3
32.3	93.4	40.1	105.3
30	83.4	40.9	103
21.5	68.9	35.6	90
13.8	70.3	36.9	95.4
6.3	70.6	37.5	89.3
12.9	71.3	36.3	94.4
24.3	76.1	35.5	97.6
8.8	66.7	38.7	88.5
8.5	73.1	36.4	93.6
13.5	56.8	33.2	87.7
11.8	65	36.5	93.4
18.5	67.4	36	91.6
8.8	73.9	38.7	91.6
22.2	80.8	38.7	102

21.5	73.3	37.8	96.4
18.8	77.8	37.4	102.7
31.4	74.4	38.4	97.7
26.8	68.3	38.1	97.1
18.4	86.5	39.3	103.1
27	77.6	38.7	101.8
27	76.4	38.5	101.4
14.9	71.7	37.7	97.5
23.1	72.7	36.5	104.3
8.3	80.3	38	97.3
14.1	80	36.7	96.7
20.5	80.5	37.2	99.7
18.2	81.7	39.2	101.9
8.5	75.1	37.5	97.2
24.9	87.5	38	106.6
9	83.8	37.3	99.6
17.4	102	41.1	113.2
9.6	85.8	37.5	99.1
11.3	73.9	38.7	99.4
17.8	71.1	35.9	95.1
22.2	89.5	40	107.5
21.2	90.2	40.1	106.5
20.4	79	37	99.1
20.1	78.5	36.3	96.7
22.3	89.4	40.7	103.5

Z -



Z SCORE B	Z SCORE W	Z SCORE N	Z SCORE C
-1.38755	0.3390379	-0.673618	1.02609037
-1.57276	0.598923	-0.604912	1.04102629
-0.99922	0.3360507	-0.739336	1.10674435
-1.44431	0.7542566	-0.637771	1.28597541
-0.89766	0.7482822	-0.727387	1.15155211
-1.13066	1.10077	-0.589976	1.36662939
-1.18144	0.7034744	-0.667643	1.38455249
-1.38457	0.6347692	-0.625823	1.22025735
-1.6325	0.8378977	-0.616861	1.25909075
-1.40548	0.9364748	-0.497374	1.22025735
-1.54289	0.7751669	-0.604912	1.27701386
-1.52198	1.1784368	-0.578028	1.33974473
-1.13364	0.6945129	-0.607899	1.29194978
-1.1217	1.0320647	-0.578028	1.35468065
-1.09481	0.79309	-0.545169	1.27103949
-1.13066	0.4555381	-0.667643	1.20532143
-0.88869	0.9036158	-0.592964	1.28896259
-1.07091	1.0858341	-0.497374	1.4592321
-1.27703	0.7393206	-0.619848	1.43533463
-1.26209	1.1216803	-0.560105	1.41741152
-1.18443	0.6765898	-0.586989	1.33078317
-1.30093	0.9663467	-0.521271	1.57274511
-1.28898	0.1508453	-0.742323	0.81400028
-1.22625	0.2643583	-0.694528	0.83491057

-1.33677	0.3002045	-0.7214	0.394620
-1.64445	0.4077432	-0.688553	0.215789
-1.07091	0.2553967	-0.595951	1.1545393
-1.64445	0.0552554	-0.667643	1.0380391
-1.49211	0.4286534	-0.658682	1.1545393
-1.58471	0.4196919	-0.640759	1.0380391
-1.40249	0.5272305	-0.616861	1.02310318
-1.11871	1.2112958	-0.566079	1.58170666
-0.79012	1.602617	-0.497374	1.74002743
-0.55712	0.8498465	-0.607899	1.7848352
-1.03208	0.9902441	-0.604912	1.42637307
-0.90662	0.9155645	-0.497374	1.39948841
-0.78116	1.0021929	-0.55413	1.67430938
-0.77219	1.0290775	-0.661669	1.41143715
-0.81103	1.1903855	-0.640759	1.62950161
-0.79908	1.1246675	-0.515297	1.42936026
-1.52497	-0.05527	-0.814015	0.78711562
-1.33976	0.4764484	-0.688553	1.13064182
-1.43236	0.0582426	-0.751284	0.87971833
-1.5877	0.2613711	-0.721412	0.92751328
-1.34872	0.0881144	-0.775182	1.00219289
-1.63549	-0.022411	-0.739336	0.73633348
-1.45029	0.3928072	-0.712451	0.93946202
-1.55782	0.1359094	-0.730374	0.90959018
-1.516	0.1090247	-0.664656	0.9245261

-1.1369	0.2181276	-0.706477	1.03206474
-1.388	0.000888	-0.625823	0.86179523
-1.07987	0.9334876	-0.563092	1.4592321
-1.14559	0.7094488	-0.586989	1.23220609
-0.91857	0.9782954	-0.545169	1.57573229
-0.81402	0.9932313	-0.545169	1.69223248
-1.02013	0.6855513	-0.607899	1.37559094
-0.97532	1.1784368	-0.518284	1.59962977
-0.8648	0.6736026	-0.691541	1.31883444
-0.83791	0.8677696	-0.619848	1.4592321
-0.98428	0.6616538	-0.637771	1.39052686
-0.79012	1.0350519	-0.557117	1.39052686
-0.85882	0.7363335	-0.53322	1.32182162
-1.11273	0.3031917	-0.691541	0.93348765
-1.34275	0.3450123	-0.652707	1.09479561
-1.56679	0.3539738	-0.634784	0.91257736
-1.36963	0.3748841	-0.67063	1.06492376
-1.02909	0.518269	-0.694528	1.16051366
-1.49211	0.2374736	-0.598938	0.88867989
-1.50107	0.4286534	-0.667643	1.04102629
-1.35171	-0.058258	-0.763233	0.86478241
-1.40249	0.1866915	-0.664656	1.03505192
-1.20235	0.2583839	-0.679592	0.9812826
-1.49211	0.4525509	-0.598938	0.9812826
-1.09182	0.6586667	-0.598938	1.29194978

-1.11273	0.4346278	-0.625823	1.12466745
-1.19339	0.5690511	-0.637771	1.31286007
-0.817	0.4674868	-0.607899	1.16350085
-0.95441	0.2852686	-0.616861	1.14557774
-1.20534	0.8289362	-0.581015	1.32480881
-0.94844	0.5630768	-0.598938	1.28597541
-0.94844	0.5272305	-0.604912	1.27402667
-1.30989	0.3868329	-0.62881	1.15752648
-1.06494	0.4167047	-0.664656	1.36065502
-1.50704	0.6437307	-0.619848	1.15155211
-1.33379	0.6347692	-0.658682	1.133629
-1.14261	0.6497051	-0.643746	1.22324454
-1.21131	0.6855513	-0.584002	1.28896259
-1.50107	0.4883971	-0.634784	1.14856493
-1.01117	0.858808	-0.619848	1.42936026
-1.48613	0.7482822	-0.640759	1.22025735
-1.23521	1.2919498	-0.527246	1.62651443
-1.46821	0.8080259	-0.634784	1.20532143
-1.41743	0.4525509	-0.598938	1.21428298
-1.22326	0.3689098	-0.682579	1.08583405
-1.09182	0.9185517	-0.560105	1.45624492
-1.1217	0.939462	-0.557117	1.42637307
-1.14559	0.6048973	-0.64972	1.20532143
-1.15455	0.5899614	-0.67063	1.133629
-1.08884	0.9155645	-0.539194	1.33675754

MEAN AND STANDARD DEVIATION BEFORE NORMALIZATION



BODY_FAT

mean 18.05050505
standard dev 11.42315357

WEIGHT

mean 79.57474747
standard dev 11.42315357

NECK_CIRC

mean 37.73232323
standard dev 2.243258758

CHEST_CIRC

mean 99.64343434
standard dev 7.716298172

GRAND

mean 58.75025253
standard dev 33.47633776

CHOLESTEROL DATA AFTER NORMALIZATION

Body_FAT	Weight	Neck_Circ	Chest_Circ
12.3	70.1	36.2	93.1
6.1	78.8	38.5	93.6
25.3	70.0	34.0	95.8
10.4	84.0	37.4	101.8
28.7	83.8	34.4	97.3
20.9	95.6	39.0	104.5
19.2	82.3	36.4	105.1
12.4	80.0	37.8	99.6
4.1	86.8	38.1	100.9
11.7	90.1	42.1	99.6
7.1	84.7	38.5	101.5
7.8	98.2	39.4	103.6
20.8	82.0	38.4	102.0
21.2	93.3	39.4	104.1
22.1	85.3	40.5	101.3
20.9	74.0	36.4	99.1
29.0	89.0	38.9	101.9
22.9	95.1	42.1	107.6
16.0	83.5	38.0	106.8
16.5	96.3	40.0	106.2
19.1	81.4	39.1	103.3
15.2	91.1	41.3	111.4
15.6	63.8	33.9	86.0
17.7	67.6	35.5	86.7

14.0	68.8	34.5	90.2
3.7	72.4	35.7	89.6
22.9	67.3	38.8	97.4
3.7	60.6	36.4	93.5
8.8	73.1	36.7	97.4
5.7	72.8	37.3	93.5
11.8	76.4	38.1	93.0
21.3	99.3	39.8	111.7
32.3	112.4	42.1	117.0
40.1	87.2	38.4	118.5
24.2	91.9	38.5	106.5
28.4	89.4	42.1	105.6
32.6	92.3	40.2	114.8
32.9	93.2	36.6	106.0
31.6	98.6	37.3	113.3
32.0	96.4	41.5	106.6
7.7	56.9	31.5	85.1
13.9	74.7	35.7	96.6
10.8	60.7	33.6	88.2
5.6	67.5	34.6	89.8
13.6	61.7	32.8	92.3
4.0	58.0	34.0	83.4
10.2	71.9	34.9	90.2
6.6	63.3	34.3	89.2
8.0	62.4	36.5	89.7

6.3	69.4	35.1	93.3
3.9	61.9	37.8	87.6
22.6	90.0	39.9	107.6
20.4	82.5	39.1	100.0
28.0	91.5	40.5	111.5
31.5	92.0	40.5	115.4
24.6	81.7	38.4	104.8
26.1	98.2	41.4	112.3
29.8	81.3	35.6	102.9
30.7	87.8	38.0	107.6
25.8	80.9	37.4	105.3
32.3	93.4	40.1	105.3
30.0	83.4	40.9	103.0
21.5	68.9	35.6	90.0
13.8	70.3	36.9	95.4
6.3	70.6	37.5	89.3
12.9	71.3	36.3	94.4
24.3	76.1	35.5	97.6
8.8	66.7	38.7	88.5
8.5	73.1	36.4	93.6
13.5	56.8	33.2	87.7
11.8	65.0	36.5	93.4
18.5	67.4	36.0	91.6
8.8	73.9	38.7	91.6
22.2	80.8	38.7	102.0

21.5	73.3	37.8	96.4
18.8	77.8	37.4	102.7
31.4	74.4	38.4	97.7
26.8	68.3	38.1	97.1
18.4	86.5	39.3	103.1
27.0	77.6	38.7	101.8
27.0	76.4	38.5	101.4
14.9	71.7	37.7	97.5
23.1	72.7	36.5	104.3
8.3	80.3	38.0	97.3
14.1	80.0	36.7	96.7
20.5	80.5	37.2	99.7
18.2	81.7	39.2	101.9
8.5	75.1	37.5	97.2
24.9	87.5	38.0	106.6
9.0	83.8	37.3	99.6
17.4	102.0	41.1	113.2
9.6	85.8	37.5	99.1
11.3	73.9	38.7	99.4
17.8	71.1	35.9	95.1
22.2	89.5	40.0	107.5
21.2	90.2	40.1	106.5
20.4	79.0	37.0	99.1
20.1	78.5	36.3	96.7
22.3	89.4	40.7	103.5

MEAN AND STANDARD DEVIATION AFTER NORMALIZATION

BODY_FAT

mean 18.1

std dev 8.652797387

WEIGHT

mean 79.6

std dev 11.42315433

NECK_CIRC

mean 37.7

std dev 2.243258886

CHEST_CIRC

mean 99.6

std dev 7.716298172

GRAND

mean 58.8

std dev 33.47633932