Heart Disease Data

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Age	Sex	ChestPain	BloodPressure	Cholesterol	BloodSugar	MaxHeartRate	HeartDisease
63	1	3	145	233	1	150	1
37	1	2	130	250	0	187	1
41	0	1	130	204	0	172	1
56	1	1	120	236	0	178	1
57	0	0	120	354	0	163	1
57	1	0	140	192	0	148	1
56	0	1	140	294	0	153	1
44	1	1	120	263	0	173	1
52	1	2	172	199	1	162	1
57	1	2	150	168	0	174	1
54	1	0	140	239	0	160	1
48	0	2	130	275	0	139	1
49	1	1	130	266	0	171	1
64	1	3	110	211	0	144	1
58	0	3	150	283	1	162	1
50	0	2	120	219	0	158	1
58	0	2	120	340	0	172	1
66	0	3	150	226	0	114	1
43	1	0	150	247	0	171	1
69	0	3	140	239	0	151	1
59	1	0	135	234	0	161	1
44	1	2	130	233	0	179	1
42	1	0	140	226	0	178	1
61	1	2	150	243	1	137	1
40	1	3	140	199	0	178	1
71	0	1	160	302	0	162	1
59	1	2	150	212	1	157	1
51	1	2	110	175	0	123	1
65	0	2	140	417	1	157	1
53	1	2	130	197	1	152	1
41	0	1	105	198	0	168	1

65	1	0	120	177	0	140	1
44	1	1	130	219	0	188	1
54	1	2	125	273	0	152	1
51	1	3	125	213	0	125	1
46	0	2	142	177	0	160	1
54	0	2	135	304	1	170	1
54	1	2	150	232	0	165	1
65	0	2	155	269	0	148	1
65	0	2	160	360	0	151	1
51	0	2	140	308	0	142	1
48	1	1	130	245	0	180	1
45	1	0	104	208	0	148	1
53	0	0	130	264	0	143	1
39	1	2	140	321	0	182	1
52	1	1	120	325	0	172	1
44	1	2	140	235	0	180	1
47	1	2	138	257	0	156	1
53	0	2	128	216	0	115	1
53	0	0	138	234	0	160	1
51	0	2	130	256	0	149	1
66	1	0	120	302	0	151	1
62	1	2	130	231	0	146	1
44	0	2	108	141	0	175	1
63	0	2	135	252	0	172	1
52	1	1	134	201	0	158	1
48	1	0	122	222	0	186	1
45	1	0	115	260	0	185	1
34	1	3	118	182	0	174	1
57	0	0	128	303	0	159	1
71	0	2	110	265	1	130	1
54	1	1	108	309	0	156	1
52	1	3	118	186	0	190	1
41	1	1	135	203	0	132	1
58	1	2	140	211	1	165	1
35	0	0	138	183	0	182	1
51	1	2	100	222	0	143	1
45	0	1	130	234	0	175	1
44	1	1	120	220	0	170	1
62	0	0	124	209	0	163	1
54	1	2	120	258	0	147	1
51	1	2	94	227	0	154	1
29	1	1	130	204	0	202	1
51	1	0	140	261	0	186	1

43	0	2	122	213	0	165	1
55	0	1	135	250	0	161	1
51	1	2	125	245	1	166	1
59	1	1	140	221	0	164	1
52	1	1	128	205	1	184	1
58	1	2	105	240	0	154	1
41	1	2	112	250	0	179	1
45	1	1	128	308	0	170	1
60	0	2	102	318	0	160	1
52	1	3	152	298	1	178	1
42	0	0	102	265	0	122	1
67	0	2	115	564	0	160	1
68	1	2	118	277	0	151	1
46	1	1	101	197	1	156	1
54	0	2	110	214	0	158	1
58	0	0	100	248	0	122	1
48	1	2	124	255	1	175	1
57	1	0	132	207	0	168	1
52	1	2	138	223	0	169	1
54	0	1	132	288	1	159	1
45	0	1	112	160	0	138	1
53	1	0	142	226	0	111	1
62	0	0	140	394	0	157	1
52	1	0	108	233	1	147	1
43	1	2	130	315	0	162	1
53	1	2	130	246	1	173	1
42	1	3	148	244	0	178	1
59	1	3	178	270	0	145	1
63	0	1	140	195	0	179	1
42	1	2	120	240	1	194	1
50	1	2	129	196	0	163	1
68	0	2	120	211	0	115	1
69	1	3	160	234	1	131	1
45	0	0	138	236	0	152	1
50	0	1	120	244	0	162	1
50	0	0	110	254	0	159	1
64	0	0	180	325	0	154	1
57	1	2	150	126	1	173	1
64	0	2	140	313	0	133	1
43	1	0	110	211	0	161	1
55	1	1	130	262	0	155	1
37	0	2	120	215	0	170	1
41	1	2	130	214	0	168	1

56	1	3	120	193	0	162	1
46	0	1	105	204	0	172	1
46	0	0	138	243	0	152	1
64	0	0	130	303	0	122	1
59	1	0	138	271	0	182	1
41	0	2	112	268	0	172	1
54	0	2	108	267	0	167	1
39	0	2	94	199	0	179	1
34	0	1	118	210	0	192	1
47	1	0	112	204	0	143	1
67	0	2	152	277	0	172	1
52	0	2	136	196	0	169	1
74	0	1	120	269	0	121	1
54	0	2	160	201	0	163	1
49	0	1	134	271	0	162	1
42	1	1	120	295	0	162	1
41	1	1	110	235	0	153	1
41	0	1	126	306	0	163	1
49	0	0	130	269	0	163	1
60	0	2	120	178	1	96	1
62	1	1	128	208	1	140	1
57	1	0	110	201	0	126	1
64	1	0	128	263	0	105	1
51	0	2	120	295	0	157	1
43	1	0	115	303	0	181	1
42	0	2	120	209	0	173	1
67	0	0	106	223	0	142	1
76	0	2	140	197	0	116	1
70	1	1	156	245	0	143	1
44	0	2	118	242	0	149	1
60	0	3	150	240	0	171	1
44	1	2	120	226	0	169	1
42	1	2	130	180	0	150	1
66	1	0	160	228	0	138	1
71	0	0	112	149	0	125	1
64	1	3	170	227	0	155	1
66	0	2	146	278	0	152	1
39	0	2	138	220	0	152	1
58	0	0	130	197	0	131	1
47	1	2	130	253	0	179	1
35	1	1	122	192	0	174	1
58	1	1	125	220	0	144	1
56	1	1	130	221	0	163	1

56	1	1	120	240	0	169	1
55	0	1	132	342	0	166	1
41	1	1	120	157	0	182	1
38	1	2	138	175	0	173	1
38	1	2	138	175	0	173	1
67	1	0	160	286	0	108	0
67	1	0	120	229	0	129	0
62	0	0	140	268	0	160	0
63	1	0	130	254	0	147	0
53	1	0	140	203	1	155	0
56	1	2	130	256	1	142	0
48	1	1	110	229	0	168	0
58	1	1	120	284	0	160	0
58	1	2	132	224	0	173	0
60	1	0	130	206	0	132	0
40	1	0	110	167	0	114	0
60	1	0	117	230	1	160	0
64	1	2	140	335	0	158	0
43	1	0	120	177	0	120	0
57	1	0	150	276	0	112	0
55	1	0	132	353	0	132	0
65	0	0	150	225	0	114	0
61	0	0	130	330	0	169	0
58	1	2	112	230	0	165	0
50	1	0	150	243	0	128	0
44	1	0	112	290	0	153	0
60	1	0	130	253	0	144	0
54	1	0	124	266	0	109	0
50	1	2	140	233	0	163	0
41	1	0	110	172	0	158	0
51	0	0	130	305	0	142	0
58	1	0	128	216	0	131	0
54	1	0	120	188	0	113	0
60	1	0	145	282	0	142	0
60	1	2	140	185	0	155	0
59	1	0	170	326	0	140	0
46	1	2	150	231	0	147	0
67	1	0	125	254	1	163	0
62	1	0	120	267	0	99	0
65	1	0	110	248	0	158	0
44	1	0	110	197	0	177	0
60	1	0	125	258	0	141	0
58	1	0	150	270	0	111	0

68	1	2	180	274	1	150	0
62	0	0	160	164	0	145	0
52	1	0	128	255	0	161	0
59	1	0	110	239	0	142	0
60	0	0	150	258	0	157	0
49	1	2	120	188	0	139	0
59	1	0	140	177	0	162	0
57	1	2	128	229	0	150	0
61	1	0	120	260	0	140	0
39	1	0	118	219	0	140	0
61	0	0	145	307	0	146	0
56	1	0	125	249	1	144	0
43	0	0	132	341	1	136	0
62	0	2	130	263	0	97	0
63	1	0	130	330	1	132	0
65	1	0	135	254	0	127	0
48	1	0	130	256	1	150	0
63	0	0	150	407	0	154	0
55	1	0	140	217	0	111	0
65	1	3	138	282	1	174	0
56	0	0	200	288	1	133	0
54	1	0	110	239	0	126	0
70	1	0	145	174	0	125	0
62	1	1	120	281	0	103	0
35	1	0	120	198	0	130	0
59	1	3	170	288	0	159	0
64	1	2	125	309	0	131	0
47	1	2	108	243	0	152	0
57	1	0	165	289	1	124	0
55	1	0	160	289	0	145	0
64	1	0	120	246	0	96	0
70	1	0	130	322	0	109	0
51	1	0	140	299	0	173	0
58	1	0	125	300	0	171	0
60	1	0	140	293	0	170	0
77	1	0	125	304	0	162	0
35	1	0	126	282	0	156	0
70	1	2	160	269	0	112	0
59	0	0	174	249	0	143	0
64	1	0	145	212	0	132	0
57	1	0	152	274	0	88	0
56	1	0	132	184	0	105	0
48	1	0	124	274	0	166	0

56	0	0	134	409	0	150	0
66	1	1	160	246	0	120	0
54	1	1	192	283	0	195	0
69	1	2	140	254	0	146	0
51	1	0	140	298	0	122	0
43	1	0	132	247	1	143	0
62	0	0	138	294	1	106	0
67	1	0	100	299	0	125	0
59	1	3	160	273	0	125	0
45	1	0	142	309	0	147	0
58	1	0	128	259	0	130	0
50	1	0	144	200	0	126	0
62	0	0	150	244	0	154	0
38	1	3	120	231	0	182	0
66	0	0	178	228	1	165	0
52	1	0	112	230	0	160	0
53	1	0	123	282	0	95	0
63	0	0	108	269	0	169	0
54	1	0	110	206	0	108	0
66	1	0	112	212	0	132	0
55	0	0	180	327	0	117	0
49	1	2	118	149	0	126	0
54	1	0	122	286	0	116	0
56	1	0	130	283	1	103	0
46	1	0	120	249	0	144	0
61	1	3	134	234	0	145	0
67	1	0	120	237	0	71	0
58	1	0	100	234	0	156	0
47	1	0	110	275	0	118	0
52	1	0	125	212	0	168	0
58	1	0	146	218	0	105	0
57	1	1	124	261	0	141	0
58	0	1	136	319	1	152	0
61	1	0	138	166	0	125	0
42	1	0	136	315	0	125	0
52	1	0	128	204	1	156	0
59	1	2	126	218	1	134	0
40	1	0	152	223	0	181	0
61	1	0	140	207	0	138	0
46	1	0	140	311	0	120	0
59	1	3	134	204	0	162	0
57	1	1	154	232	0	164	0
57	1	0	110	335	0	143	0

55	0	0	128	205	0	130	0
61	1	0	148	203	0	161	0
58	1	0	114	318	0	140	0
58	0	0	170	225	1	146	0
67	1	2	152	212	0	150	0
44	1	0	120	169	0	144	0
63	1	0	140	187	0	144	0
63	0	0	124	197	0	136	0
59	1	0	164	176	1	90	0
57	0	0	140	241	0	123	0
45	1	3	110	264	0	132	0
68	1	0	144	193	1	141	0
57	1	0	130	131	0	115	0
57	0	1	130	236	0	174	0

1   4(a): Plot of gender vs number of people having heart disease
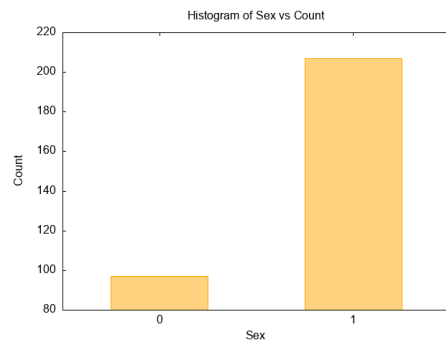
Figure 1: gender vs number of people having heart disease.

As shown in Figure 1 shows the plot of gender vs number of people having heart disease

2   4(b): Correlation between Age (x-axis) vs Blood pressure (y-axis)

As shown in Figure 2 shows the correlation between Age (x-axis) vs Blood pressure (y-axis)
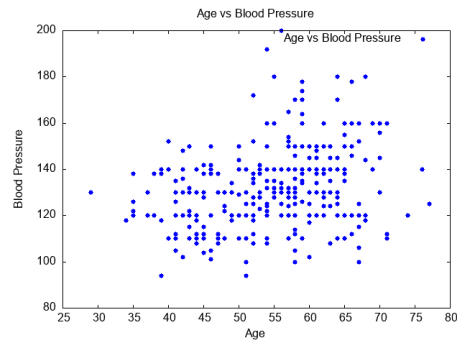
Figure 2: Age (x-axis) vs Blood pressure (y-axis)

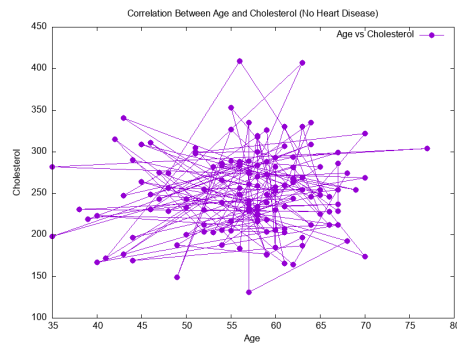# 3   4(c): Correlation between Age (x-axis) vs Cholesterol (y-axis)

Figure 3: Age (x-axis) vs Cholesterol (y-axis)

As shown in Figure 3 shows the correlation between Age (x-axis) vs Cholesterol (y-axis)

4   4(d): Percentage of age groups that have heart disease

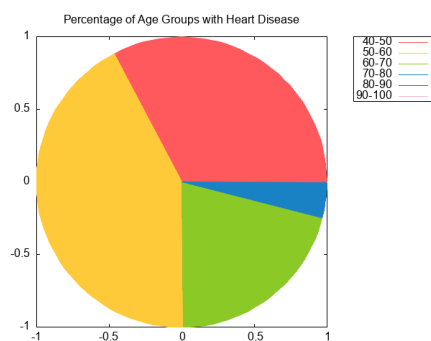As shown in Figure 4 shows the percentage of age groups that have heart disease

Figure 4: percentage of age groups that have heart disease