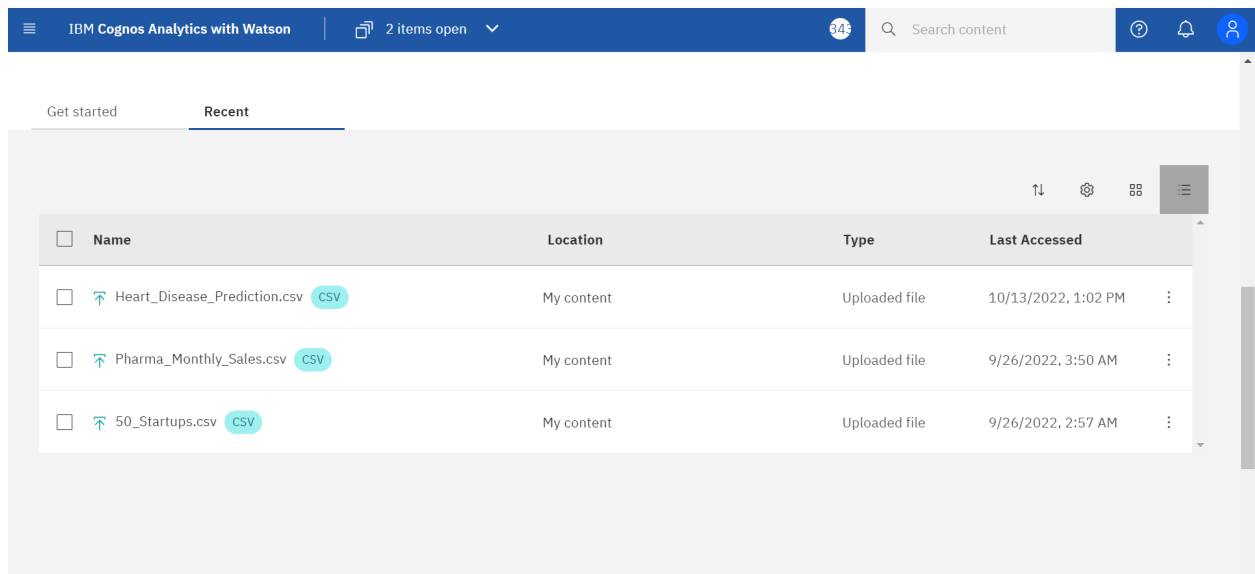# Working With Dataset

Understanding The Dataset

This database contains of 14 fields. The "goal" field refers to the presence of heart disease in the patient. It is integer valued from 0 (no presence) to 4.

	Age	Sex	Chest pair	BP	Cholester	FBS over 1	EKG result	Max HR	Exercise a	ST depres	Slope of S	Number o	Thallium	Heart Disease
2	70	1	4	130	322	0	2	109	0	2.4	2	3	3	Presence
3	67	0	3	115	564	0	2	160	0	1.6	2	0	7	Absence
4	57	1	2	124	261	0	0	141	0	0.3	1	0	7	Presence
5	64	1	4	128	263	0	0	105	1	0.2	2	1	7	Absence
6	74	0	2	120	269	0	2	121	1	0.2	1	1	3	Absence
7	65	1	4	120	177	0	0	140	0	0.4	1	0	7	Absence
8	56	1	3	130	256	1	2	142	1	0.6	2	1	6	Presence
9	59	1	4	110	239	0	2	142	1	1.2	2	1	7	Presence
10	60	1	4	140	293	0	2	170	0	1.2	2	2	7	Presence
11	63	0	4	150	407	0	2	154	0	4	2	3	7	Presence
12	59	1	4	135	234	0	0	161	0	0.5	2	0	7	Absence
13	53	1	4	142	226	0	2	111	1	0	1	0	7	Absence
14	44	1	3	140	235	0	2	180	0	0	1	0	3	Absence
15	61	1	1	134	234	0	0	145	0	2.6	2	2	3	Presence
16	57	0	4	128	303	0	2	159	0	0	1	1	3	Absence
17	71	0	4	112	149	0	0	125	0	1.6	2	0	3	Absence
18	46	1	4	140	311	0	0	120	1	1.8	2	2	7	Presence
19	53	1	4	140	203	1	2	155	1	3.1	3	0	7	Presence
20	64	1	1	110	211	0	2	144	1	1.8	2	0	3	Absence
21	40	1	1	140	199	0	0	178	1	1.4	1	0	7	Absence

Sno	Field Name
1	Age
2	Sex
3	Chest pain type
4	BP
5	Cholesterol
6	FBS over 120
7	EKG results
8	Max HR
9	Exercise angina
10	ST depression
11	Slope of ST
12	Number of vessels fluro
13	Thallium
14	Heart Disease

Loading The Dataset

1.) Exploration Of Data

2.) Exploration Of BPvsChestPainType And Gender

BP by Chest pain type and Sex colored by Sex

Sex (Average)

0   1

Chest pain type - Sex	BP (Average)
1 | 0	147.5
1 | 1	139.75
2 | 0	127.69
2 | 1	128.62
3 | 0	127
3 | 1	131.3
4 | 0	139.17
4 | 1	129.19
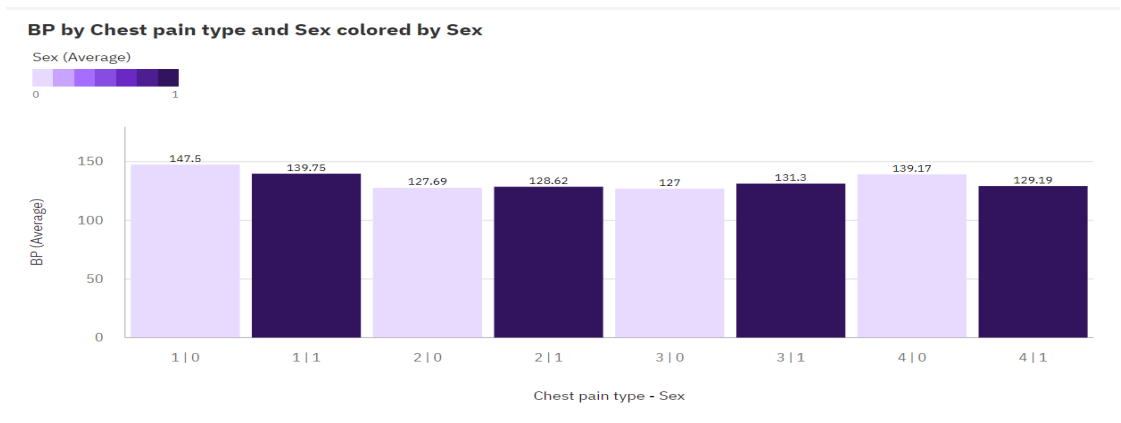
3.) Exploration Of Max Heart Rate During The Chest Pain

Max HR by Sex and Chest pain type

Max HR (Maximum) vs Sex - Chest pain type (0 \| 1, 0 \| 2, 0 \| 3, 0 \| 4, 1 \| 1, 1 \| 2, 1 \| 3, 1 \| 4)
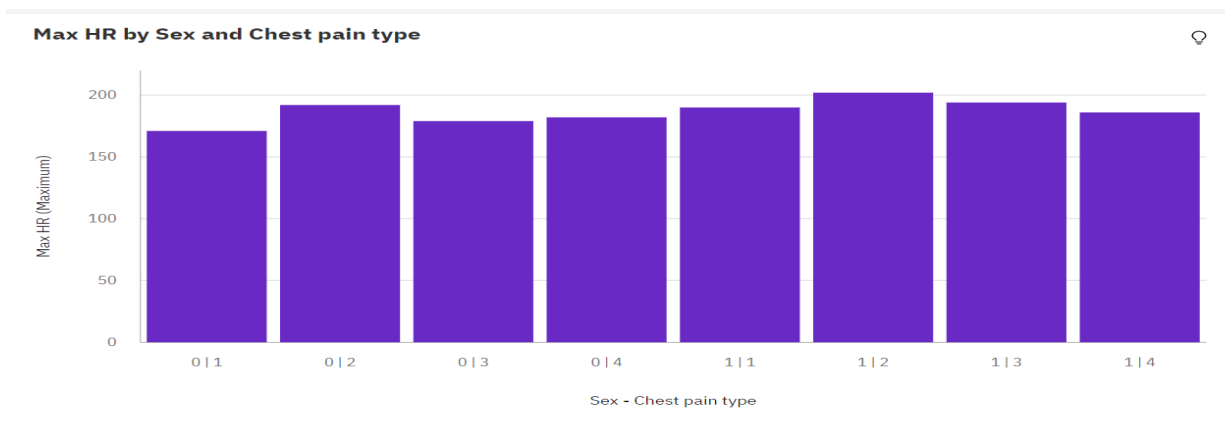
4.) Exploration Of BP by Age

BP by Age

Average: 865
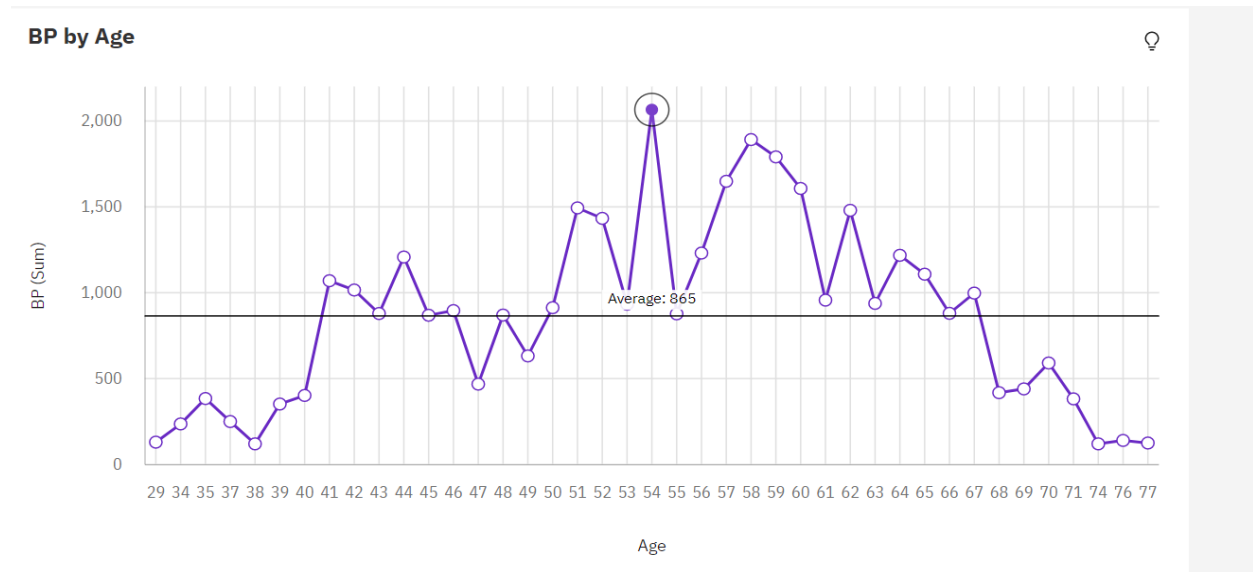
5.)Exploration Of Cholesterol By Age And Gender

Cholesterol by Age colored by Sex

Sex
● 0 ● 1

Cholesterol (Average) vs Age