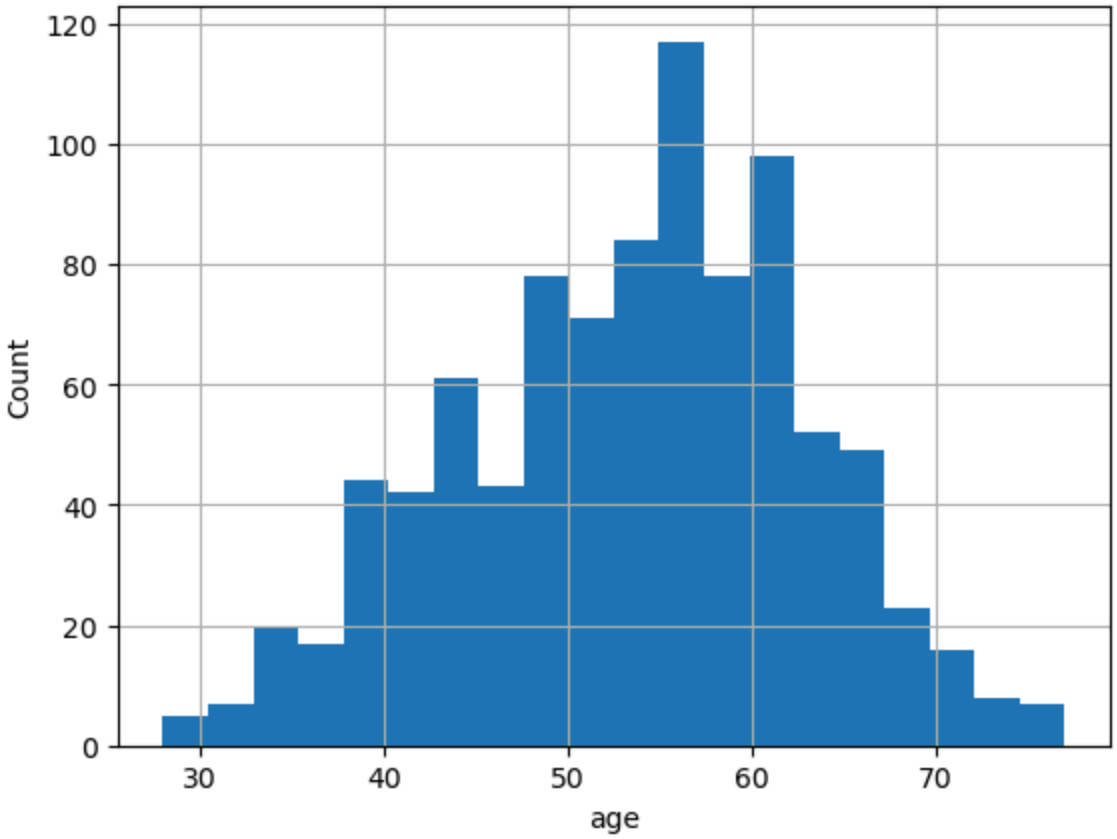
	id	age	sex	dataset	cp	trestbps	chol	fbs	restecg	thalch	exang	oldpea
0	1	63	Male	Cleveland	typical angina	145.0	233.0	True	lv hypertrophy	150.0	False	2
1	2	67	Male	Cleveland	asymptomatic	160.0	286.0	False	lv hypertrophy	108.0	True	1
2	3	67	Male	Cleveland	asymptomatic	120.0	229.0	False	lv hypertrophy	129.0	True	2
3	4	37	Male	Cleveland	non-anginal	130.0	250.0	False	normal	187.0	False	3
4	5	41	Female	Cleveland	atypical angina	130.0	204.0	False	lv hypertrophy	172.0	False	1

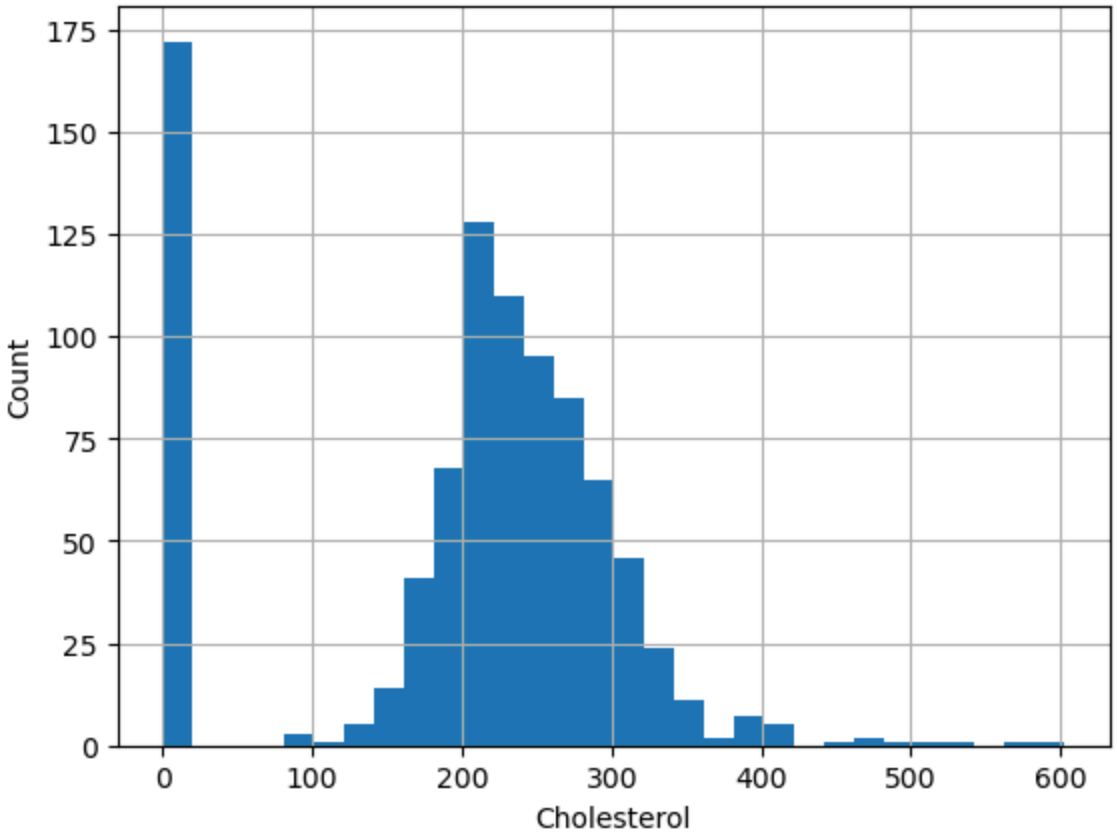
```
(920, 16)

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 920 entries, 0 to 919
Data columns (total 16 columns):
 #   Column    Non-Null Count  Dtype  
---  ------    --------------  -----  
 0   id        920 non-null    int64  
 1   age       920 non-null    int64  
 2   sex       920 non-null    object 
 3   dataset   920 non-null    object 
 4   cp        920 non-null    object 
 5   trestbps  861 non-null    float64
 6   chol      890 non-null    float64
 7   fbs       830 non-null    object 
 8   restecg   918 non-null    object 
 9   thalch    865 non-null    float64
 10  exang     865 non-null    object 
 11  oldpeak   858 non-null    float64
 12  slope     611 non-null    object 
 13  ca        309 non-null    float64
 14  thal      434 non-null    object 
 15  num       920 non-null    int64  
dtypes: float64(5), int64(3), object(8)
memory usage: 115.1+ KB
```

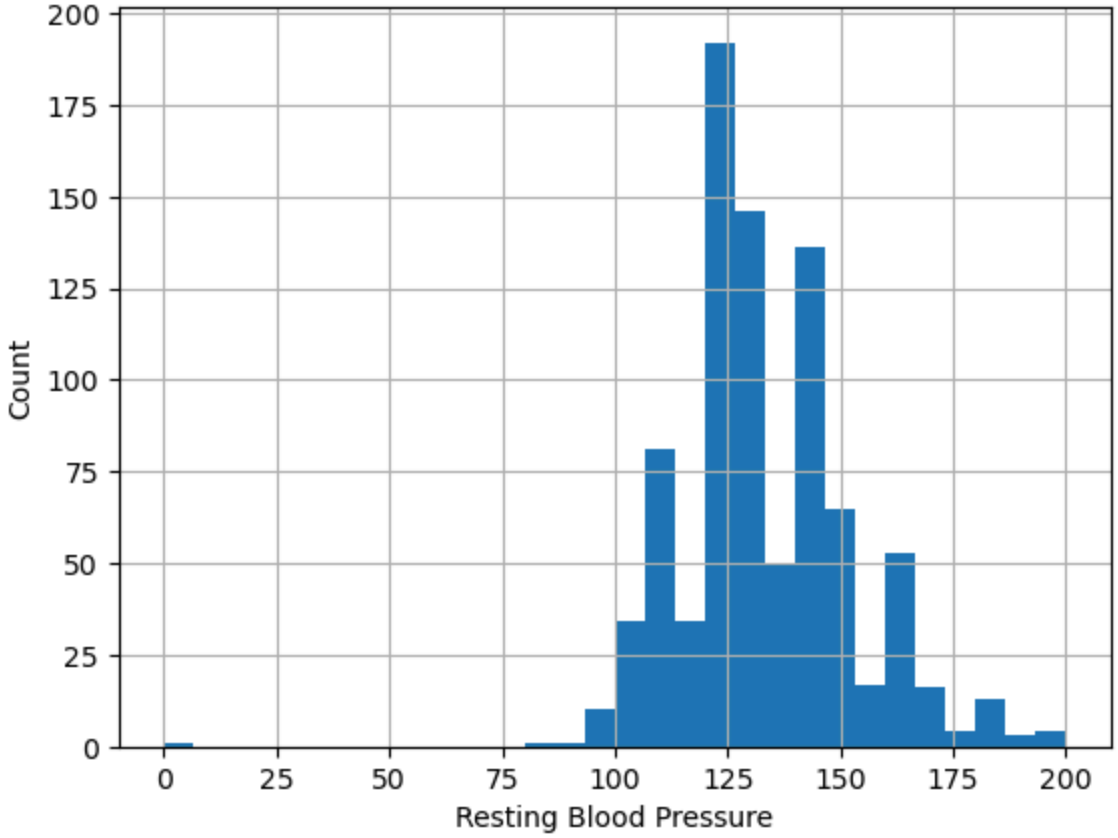
	id	age	trestbps	chol	thalch	oldpeak	ca	num
count	920.000000	920.000000	861.000000	890.000000	865.000000	858.000000	309.000000	920.000000
mean	460.500000	53.510870	132.132404	199.130337	137.545665	0.878788	0.676375	0.995652
std	265.725422	9.424685	19.066070	110.780810	25.926276	1.091226	0.935653	1.142693
min	1.000000	28.000000	0.000000	0.000000	60.000000	-2.600000	0.000000	0.000000
25%	230.750000	47.000000	120.000000	175.000000	120.000000	0.000000	0.000000	0.000000
50%	460.500000	54.000000	130.000000	223.000000	140.000000	0.500000	0.000000	1.000000
75%	690.250000	60.000000	140.000000	268.000000	157.000000	1.500000	1.000000	2.000000
max	920.000000	77.000000	200.000000	603.000000	202.000000	6.200000	3.000000	4.000000

```
Index(['id', 'age', 'sex', 'dataset', 'cp', 'trestbps', 'chol', 'fbs',
       'restecg', 'thalch', 'exang', 'oldpeak', 'slope', 'ca', 'thal', 'num'],
      dtype='object')
```

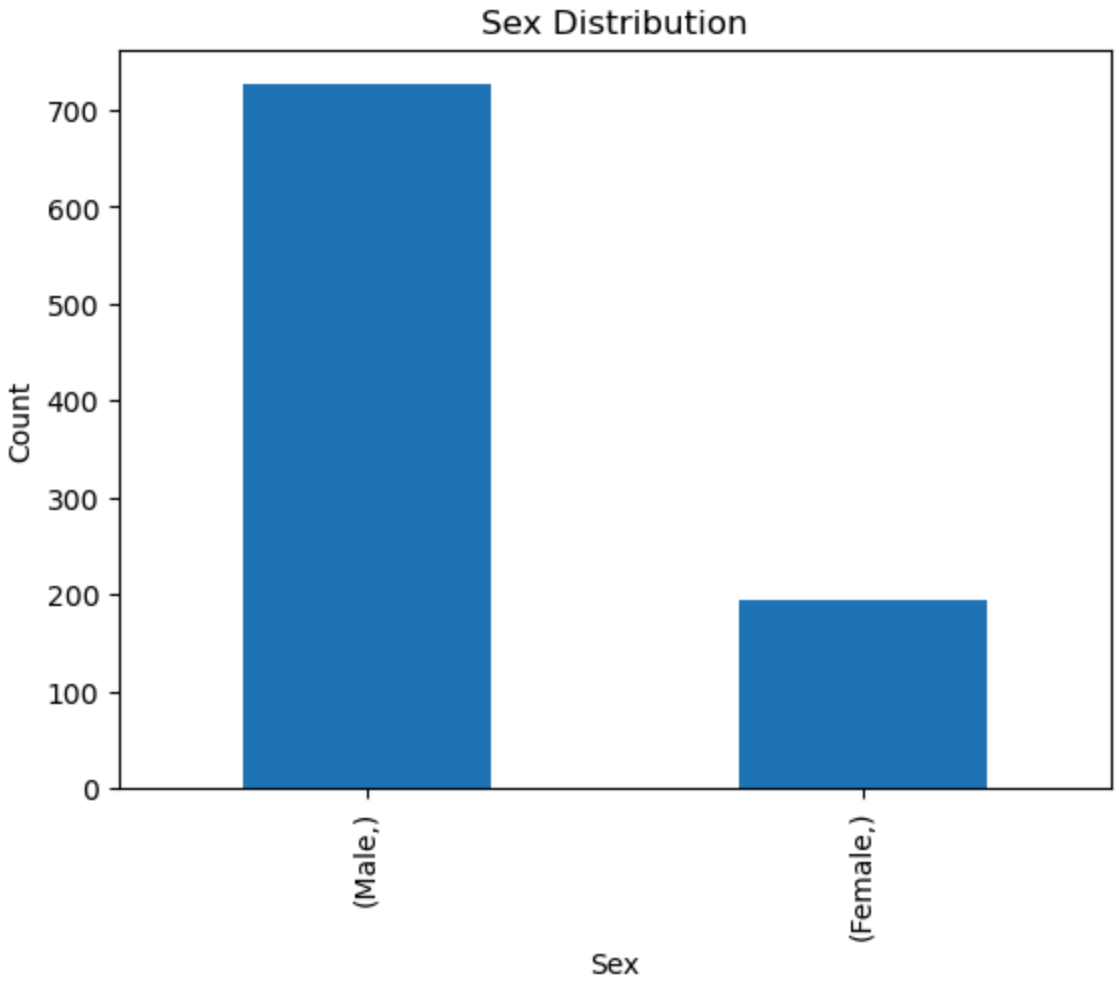
	age	chol	trestbps
0	63	233.0	145.0
1	67	286.0	160.0
2	67	229.0	120.0
3	37	250.0	130.0
4	41	204.0	130.0


120
100
80
60
40
20
0
Count
30
40
50
60
70
age


175
150
125
100
75
50
25
0
Count
0
100
200
300
400
500
600
Cholesterol



	age	chol	trestbps
count	920.000000	890.000000	861.000000
mean	53.510870	199.130337	132.132404
std	9.424685	110.780810	19.066070
min	28.000000	0.000000	0.000000
25%	47.000000	175.000000	120.000000
50%	54.000000	223.000000	130.000000
75%	60.000000	268.000000	140.000000
max	77.000000	603.000000	200.000000

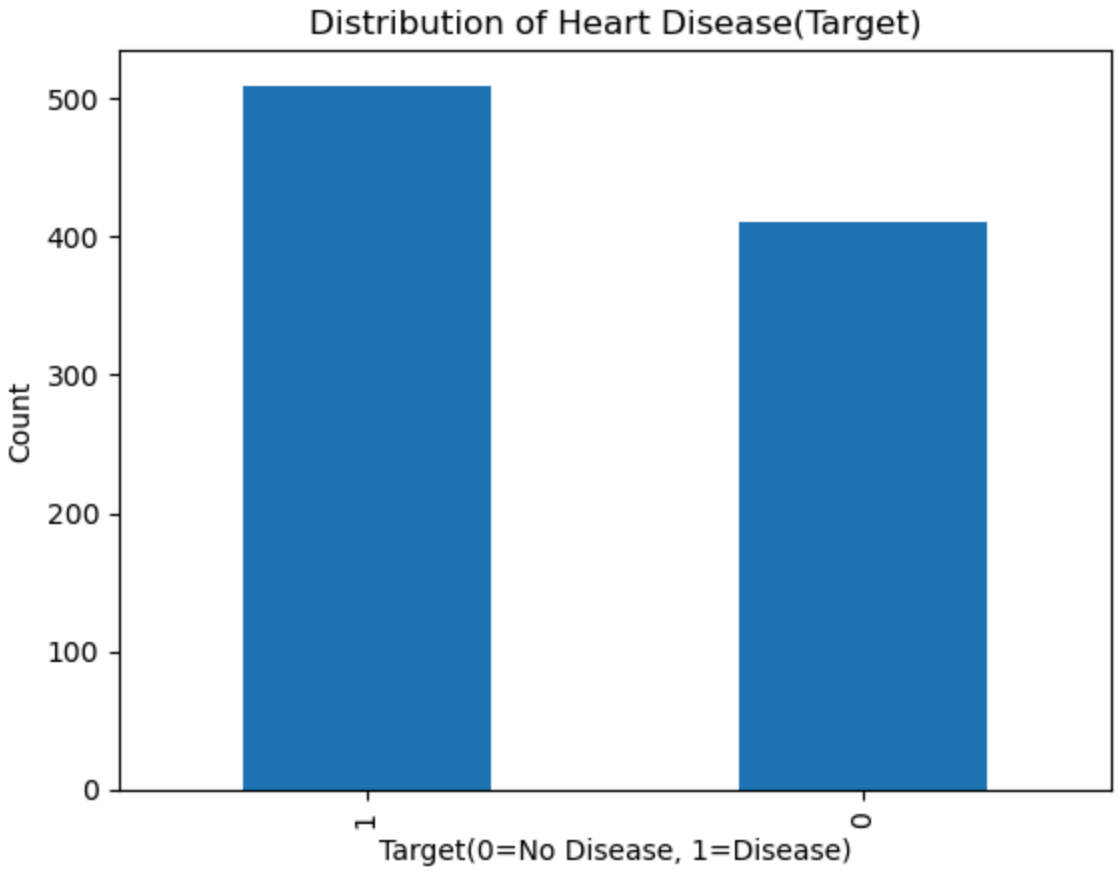


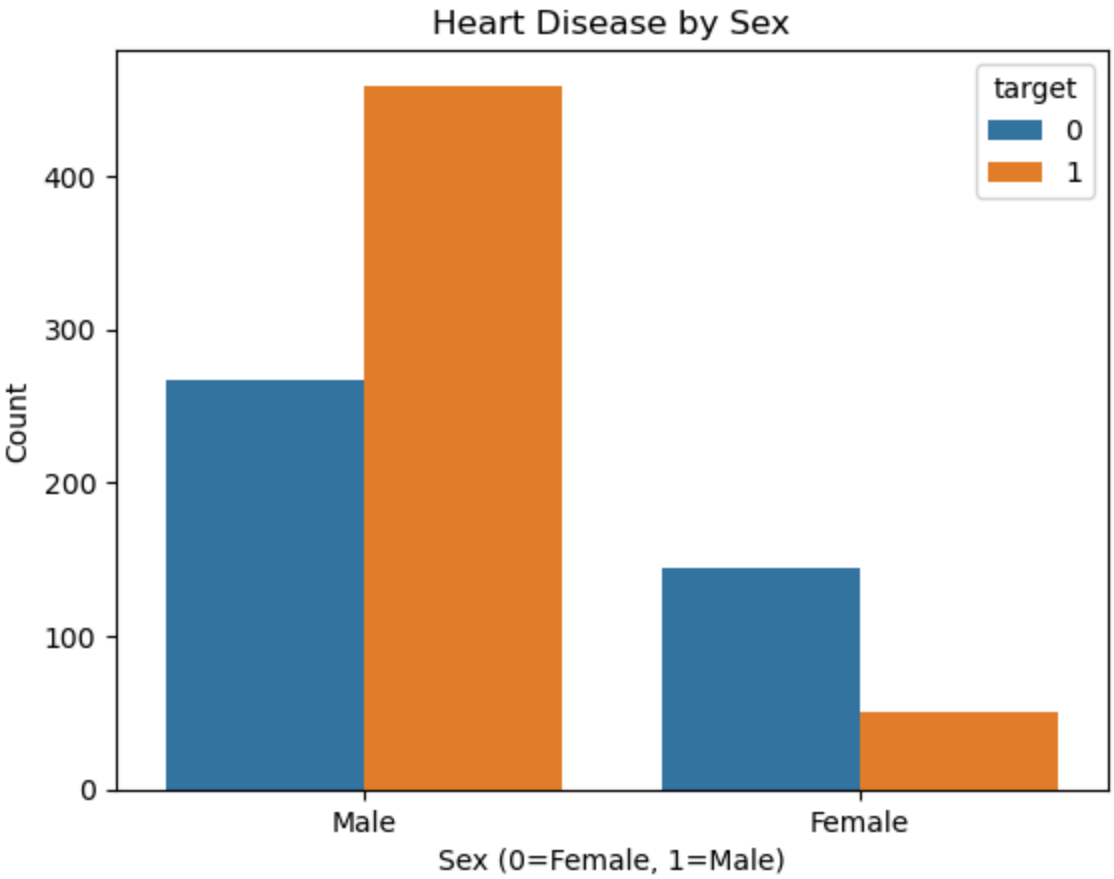

```
Index(['id', 'age', 'sex', 'dataset', 'cp', 'trestbps', 'chol', 'fbs',
       'restecg', 'thalch', 'exang', 'oldpeak', 'slope', 'ca', 'thal', 'num'],
      dtype='object')
```

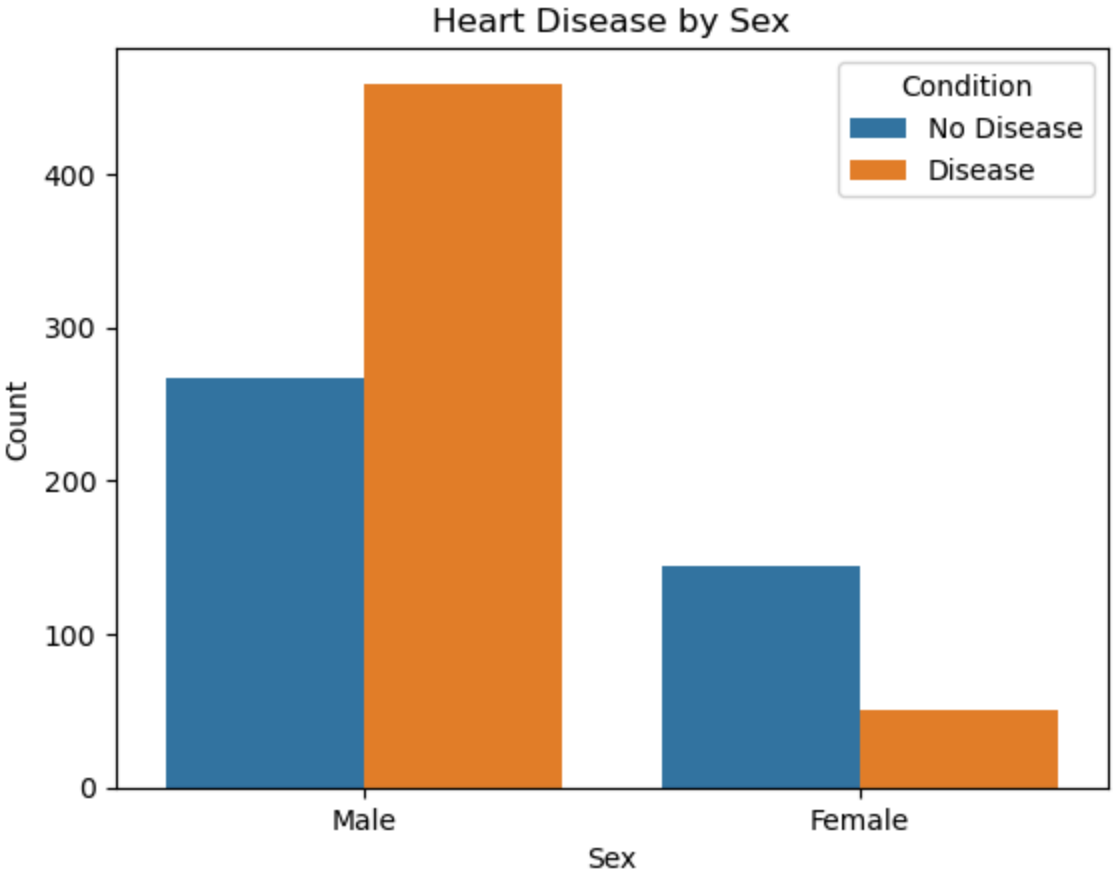
```
num
0    411
1    265
2    109
3    107
4     28
Name: count, dtype: int64
```

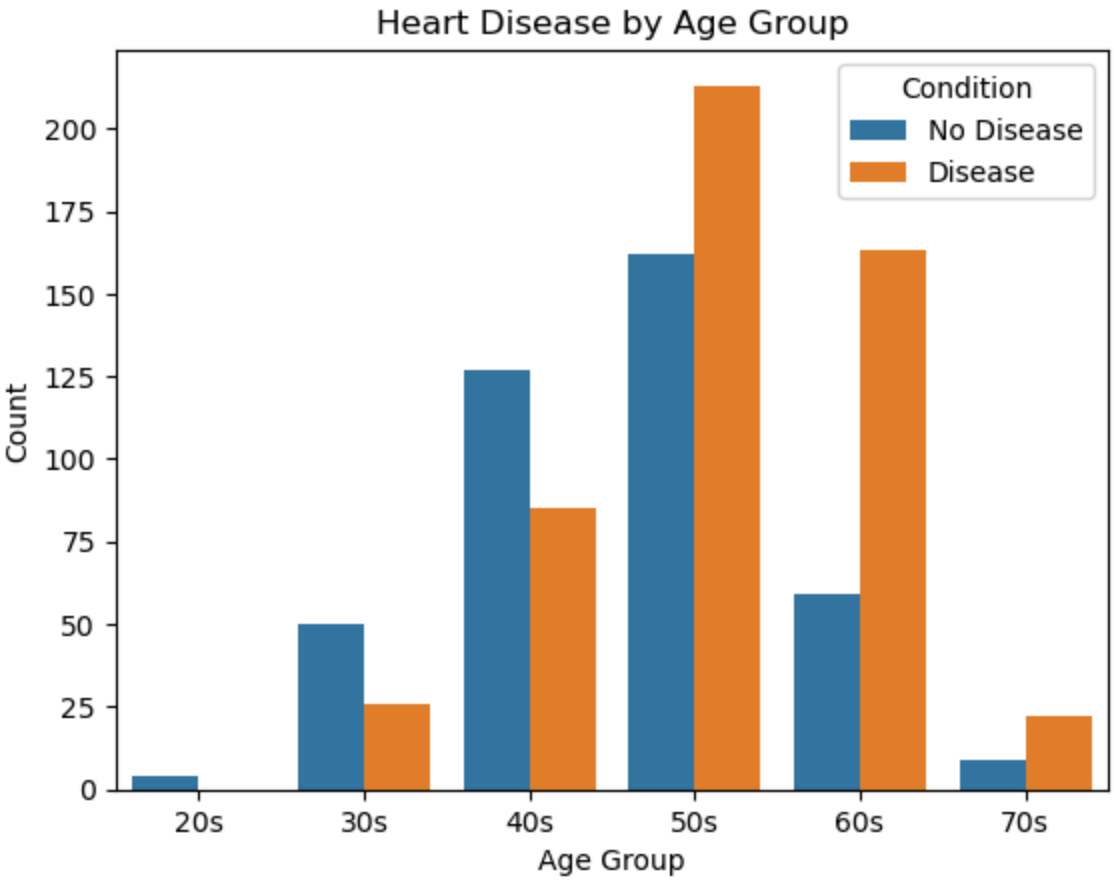
```
target
1    509
0    411
Name: count, dtype: int64
```

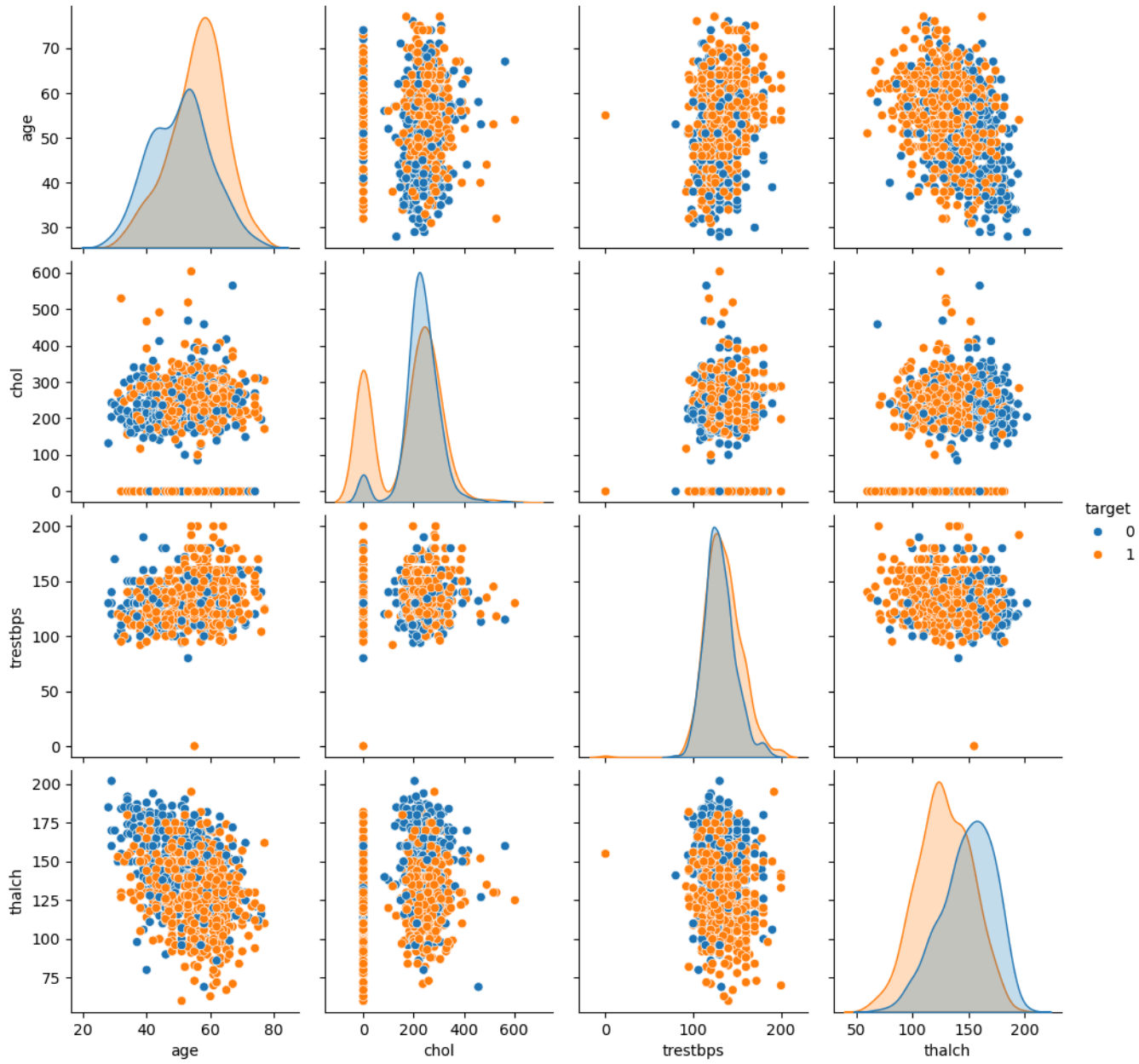
```
num
0    411
1    265
2    109
3    107
4     28
Name: count, dtype: int64
```

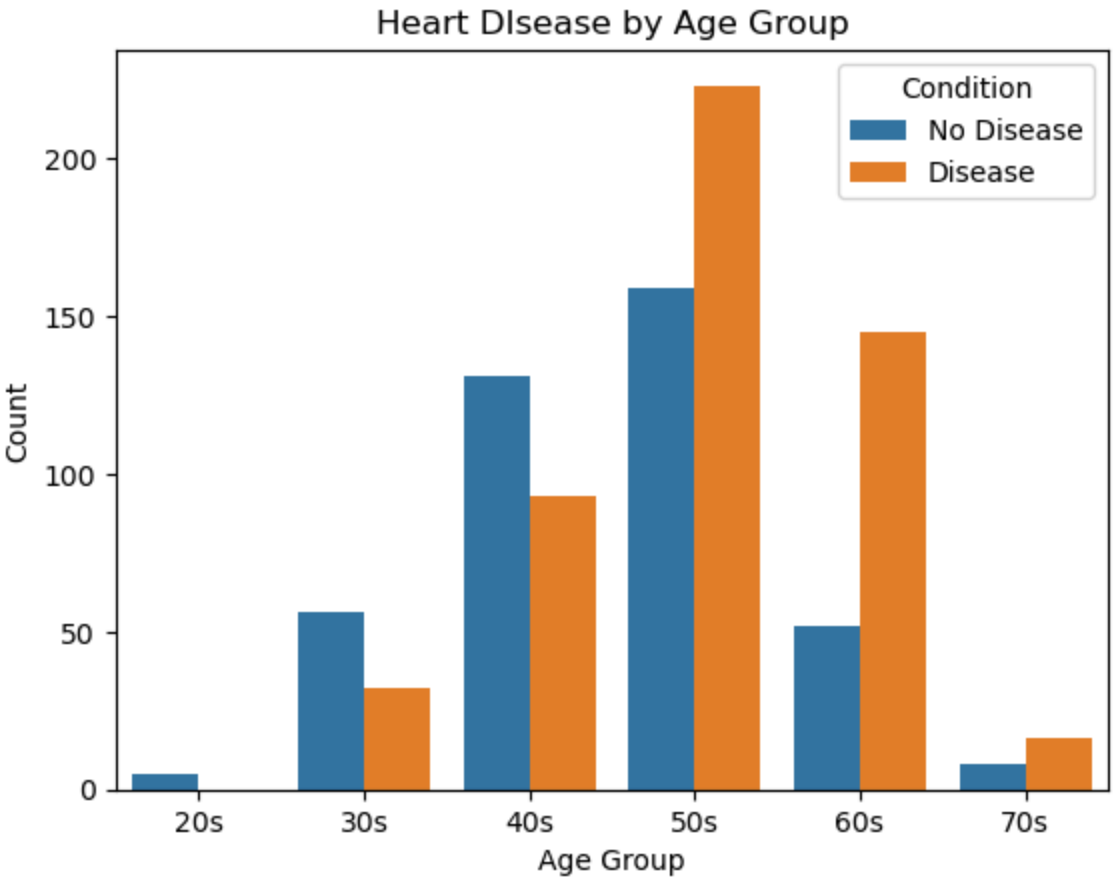


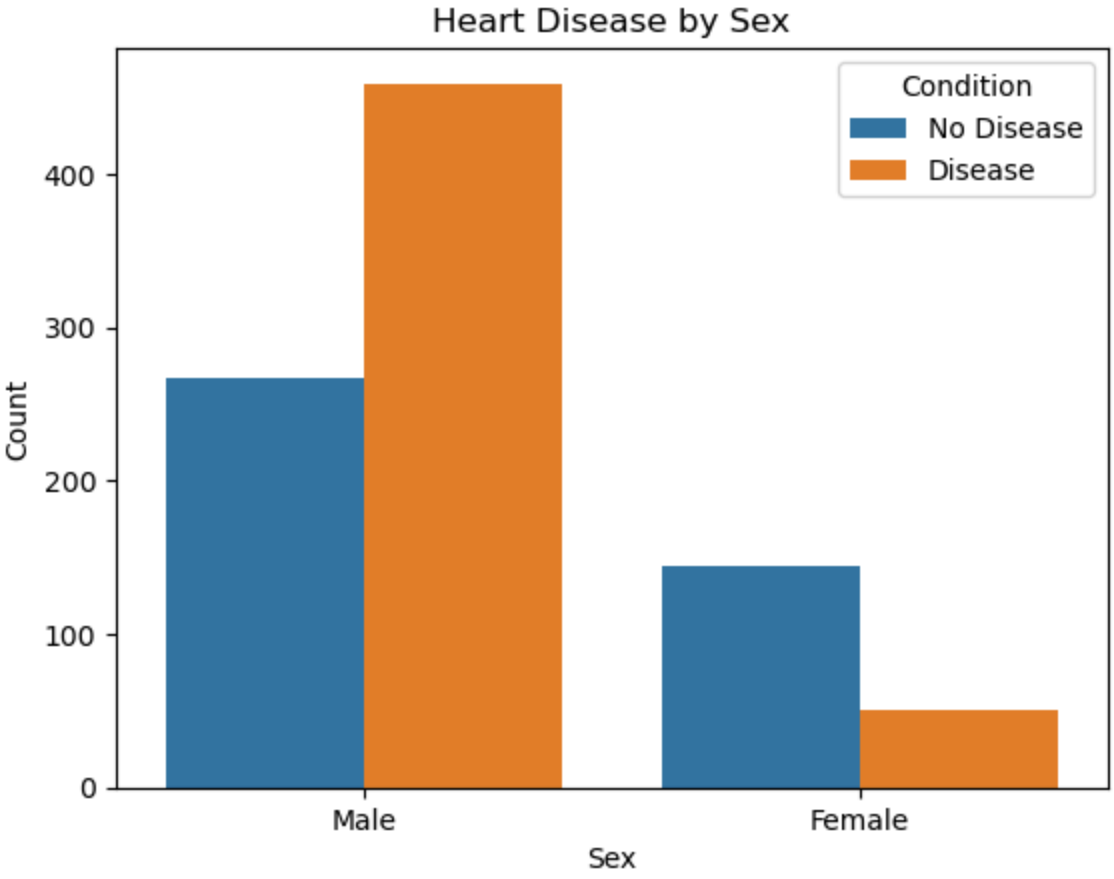

Heart Disease by Sex
target
0
1
Count
0
100
200
300
400
Male
Female
Sex (0=Female, 1=Male)

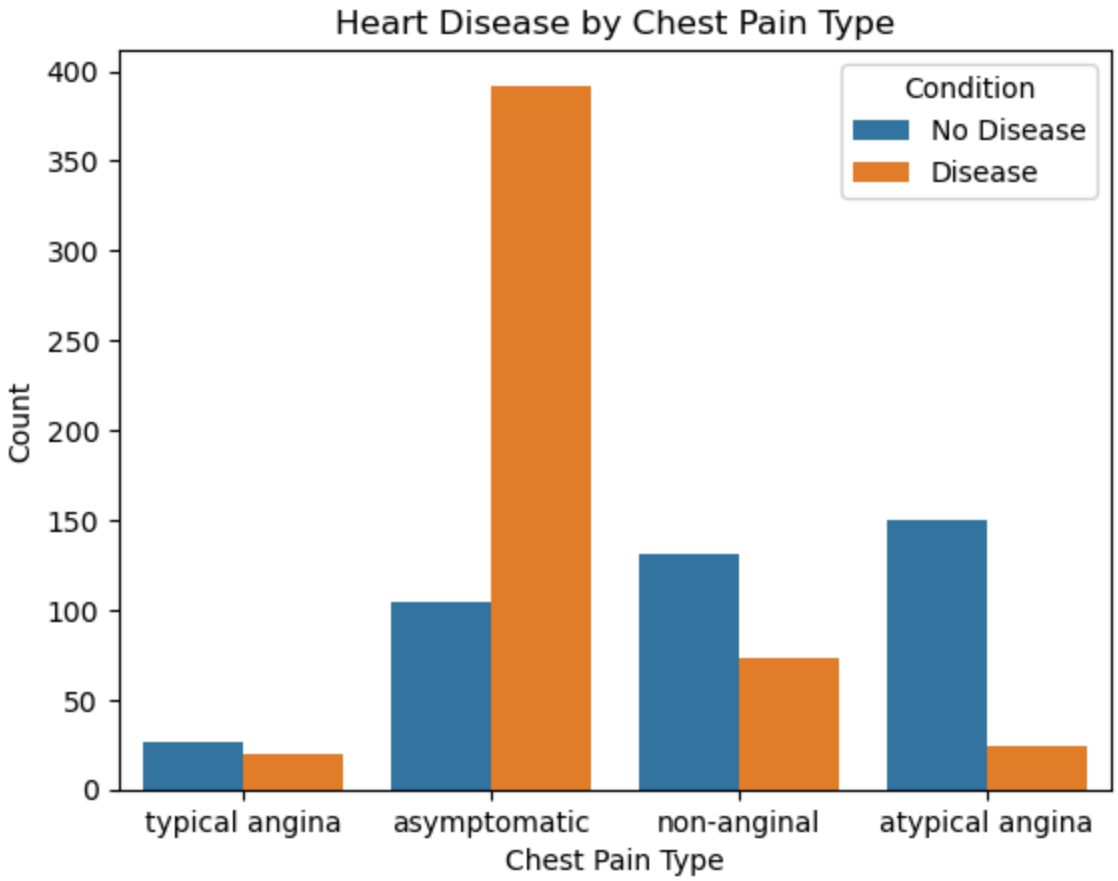

Heart Disease by Sex
Condition
No Disease
Disease
Count
0
100
200
300
400
Male
Female
Sex

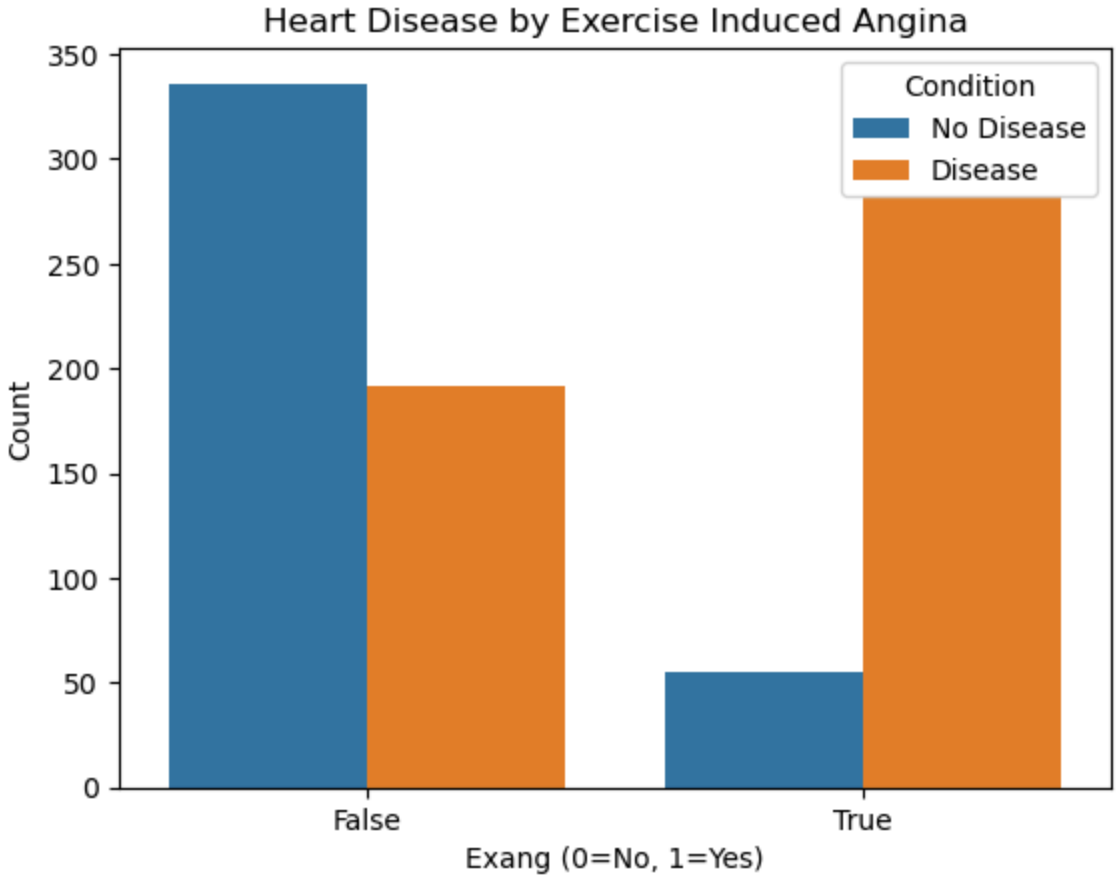

Heart Disease by Age Group
Condition
No Disease
Disease
Count
0
25
50
75
100
125
150
175
200
20s
30s
40s
50s
60s
70s
Age Group

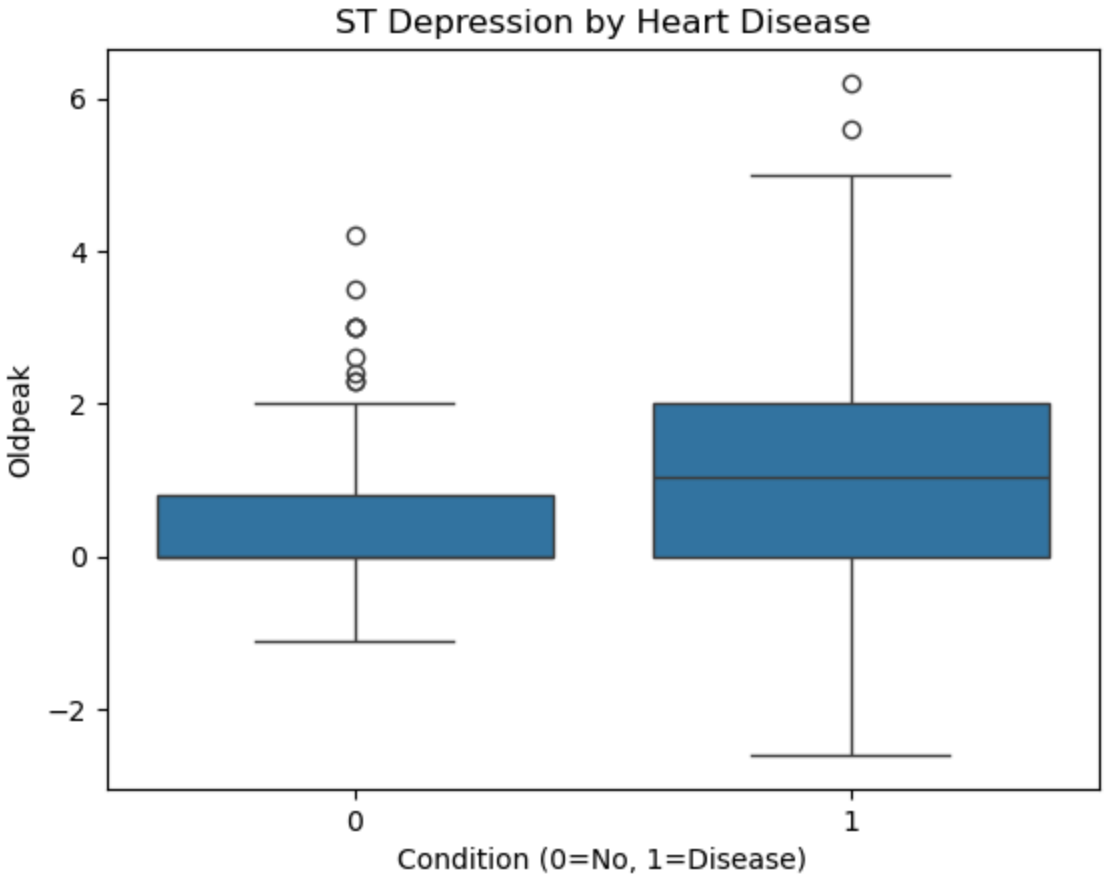

age
chol
trestbps
thalch
target
0
1

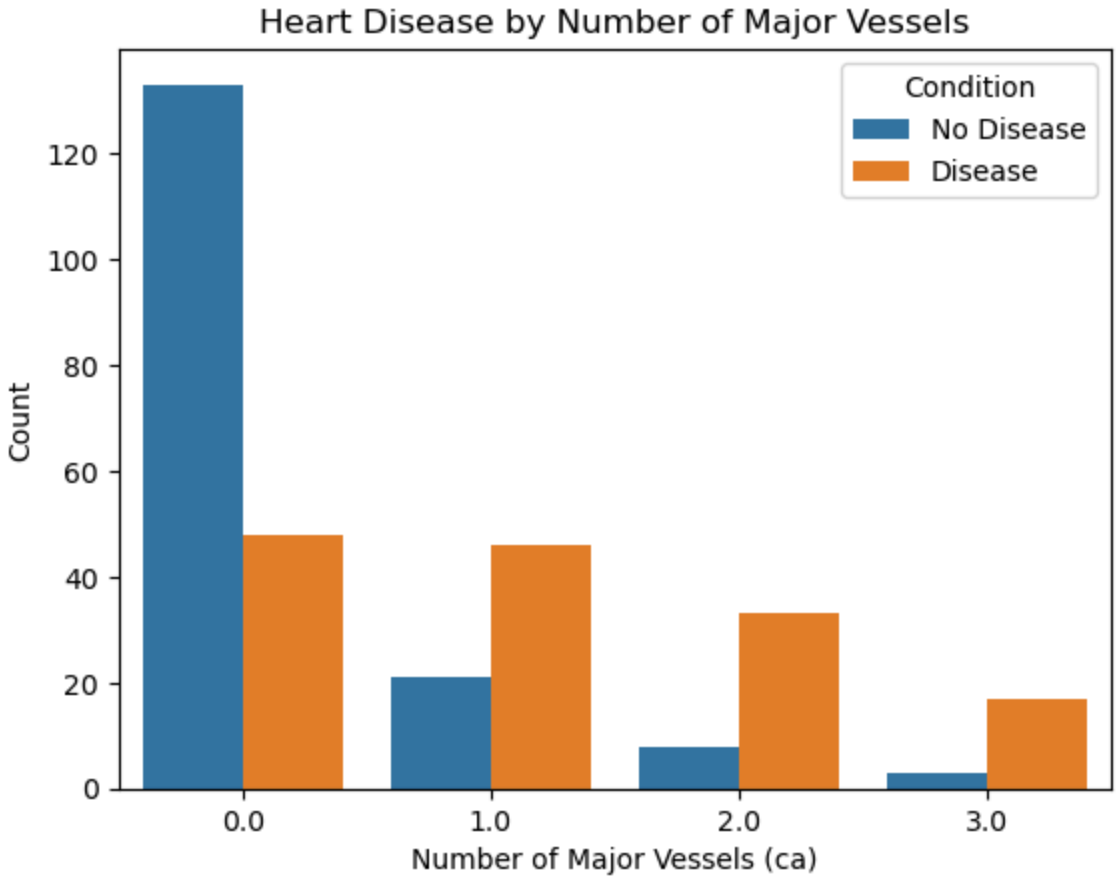

Heart DIsease by Age Group
Condition
No Disease
Disease
Count
0
50
100
150
200
20s
30s
40s
50s
60s
70s
Age Group

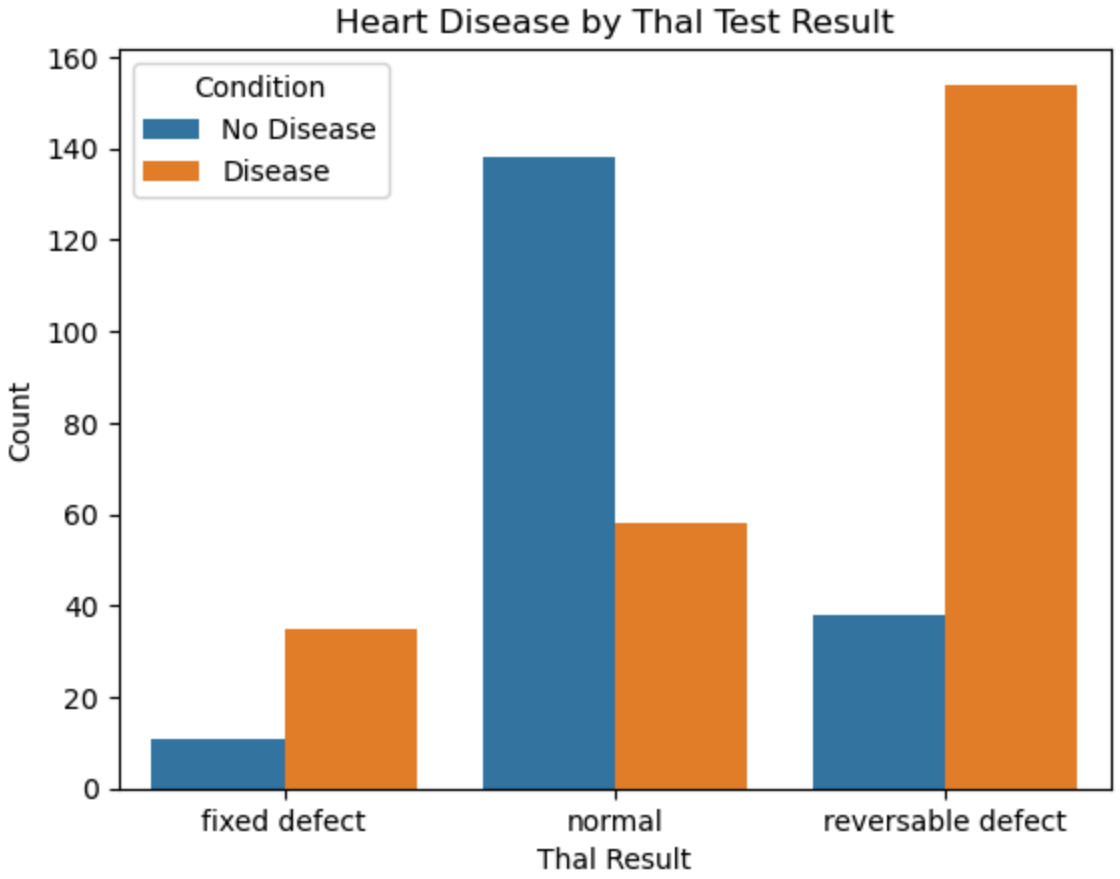

Heart Disease by Sex
Condition
No Disease
Disease
Count
0
100
200
300
400
Male
Female
Sex


Heart Disease by Chest Pain Type
Condition
No Disease
Disease
Count
0
50
100
150
200
250
300
350
400
typical angina
asymptomatic
non-anginal
atypical angina
Chest Pain Type


Heart Disease by Exercise Induced Angina
Condition
No Disease
Disease
Count
0
50
100
150
200
250
300
350
False
True
Exang (0=No, 1=Yes)


ST Depression by Heart Disease
Oldpeak
6
4
2
0
−2
0
1
Condition (0=No, 1=Disease)


Heart Disease by Number of Major Vessels
Condition
No Disease
Disease
Count
120
100
80
60
40
20
0
0.0
1.0
2.0
3.0
Number of Major Vessels (ca)


Heart Disease by Thal Test Result
Condition
No Disease
Disease
Count
160
140
120
100
80
60
40
20
0
fixed defect
normal
reversable defect
Thal Result