

K230607  
4F

## Probability and Statistics

BCS –

### Question # 1

q1\_k230607.ipynb

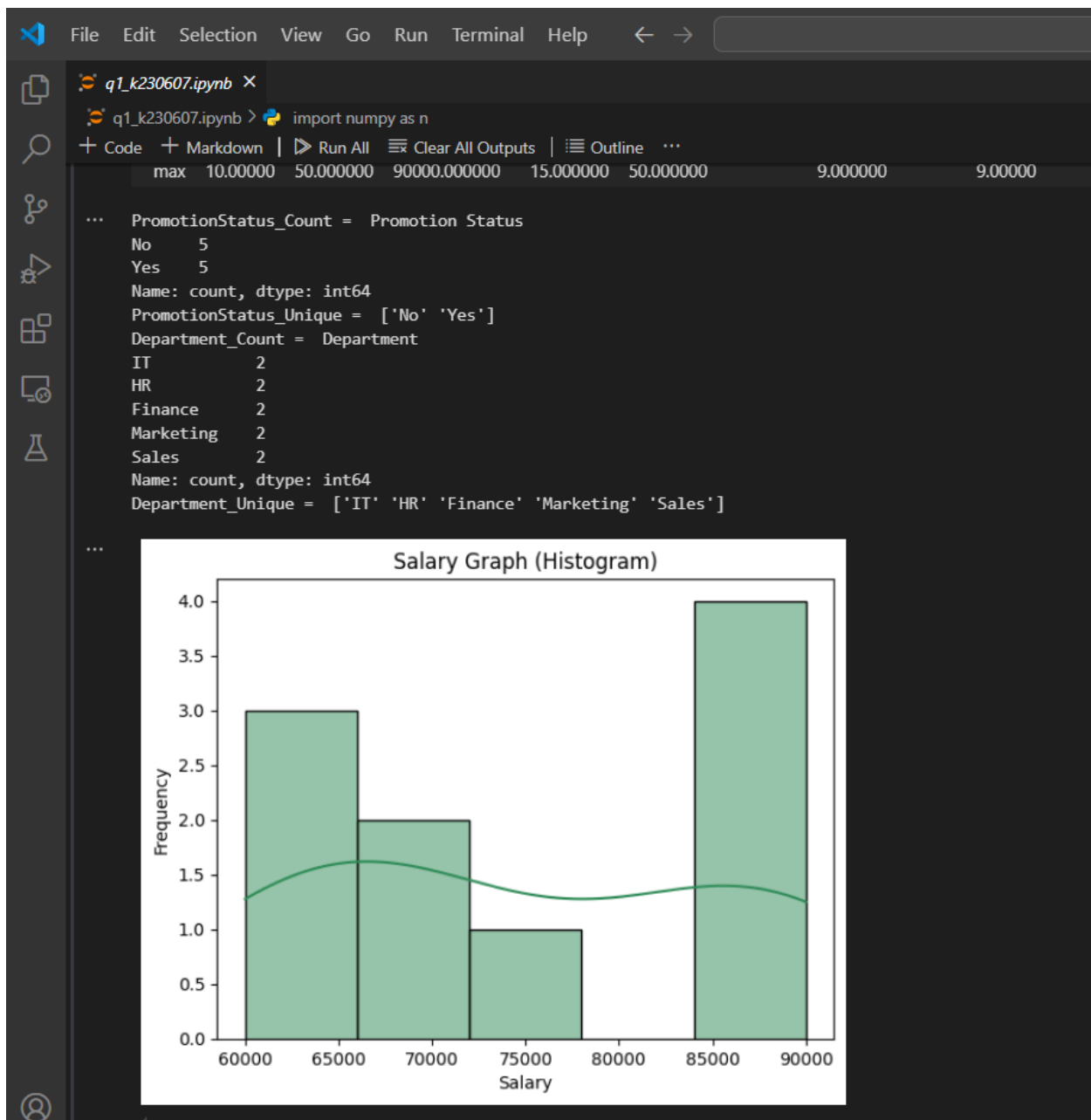
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import numpy as n
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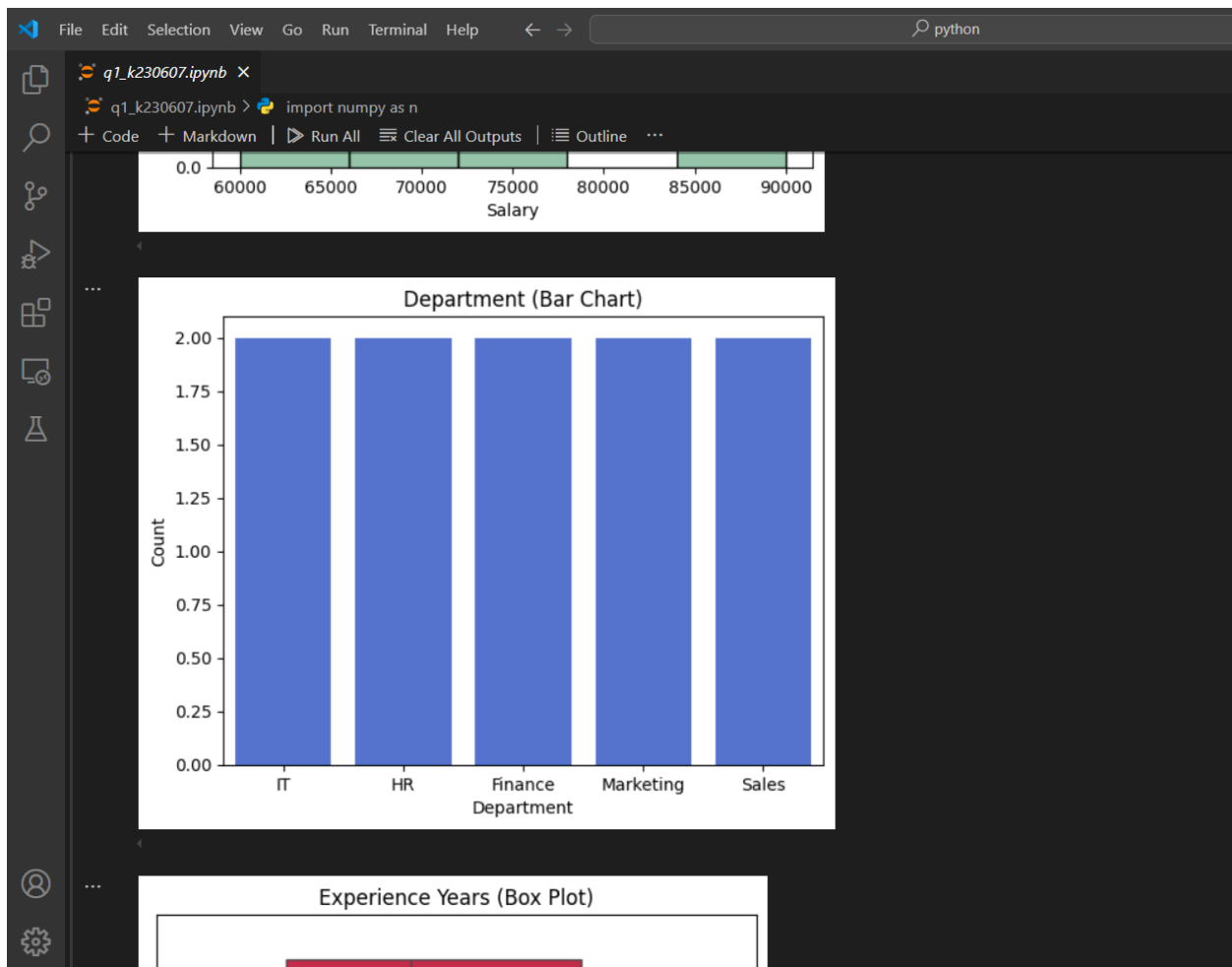
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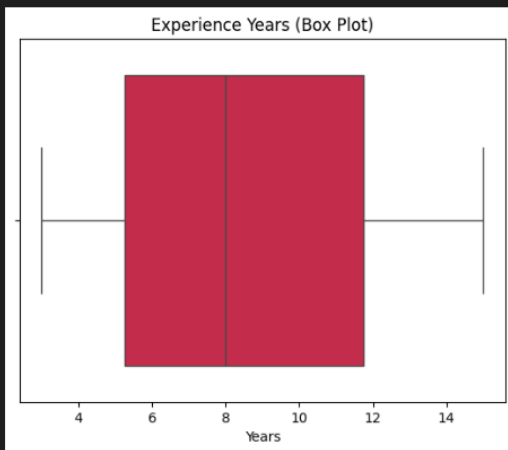
	ID	Age	Gender	Department	Salary	Experience	Work	Projects Completed	Job Satisfaction	Training Hours	Promotion Status
0	1	28	Male	IT	70000	3	40	5	7	20	No
1	2	35	Female	HR	60000	7	38	4	8	15	Yes
2	3	42	Male	Finance	90000	12	45	6	6	18	Yes
3	4	30	Female	Marketing	65000	5	42	7	9	25	No
4	5	50	Male	Sales	85000	15	50	8	5	12	Yes
5	6	41	Female	HR	62000	9	37	5	7	16	No
6	7	29	Male	IT	75000	4	39	6	8	22	No
7	8	33	Female	Finance	88000	11	44	7	6	20	Yes
8	9	45	Male	Sales	87000	14	48	9	5	14	Yes
9	10	39	Female	Marketing	67000	6	41	6	8	19	No

Rows = 10  
Columns = 11

	ID	Age	Salary	Experience	Work	Projects Completed	Job Satisfaction	Training Hours
count	10.00000	10.000000	10.000000	10.000000	10.000000	10.000000	10.00000	10.000000
mean	5.50000	37.200000	74900.000000	8.600000	42.400000	6.300000	6.90000	18.100000
std	3.02765	7.390685	11647.126493	4.247875	4.299871	1.494434	1.37032	3.928528
min	1.00000	28.000000	60000.000000	3.000000	37.000000	4.000000	5.00000	12.000000
25%	3.25000	30.750000	65500.000000	5.250000	39.250000	5.250000	6.00000	15.250000
50%	5.50000	37.000000	72500.000000	8.000000	41.500000	6.000000	7.00000	18.500000
75%	7.75000	41.750000	86500.000000	11.750000	44.750000	7.000000	8.00000	20.000000
max	10.00000	50.000000	90000.000000	15.000000	50.000000	9.000000	9.00000	25.000000



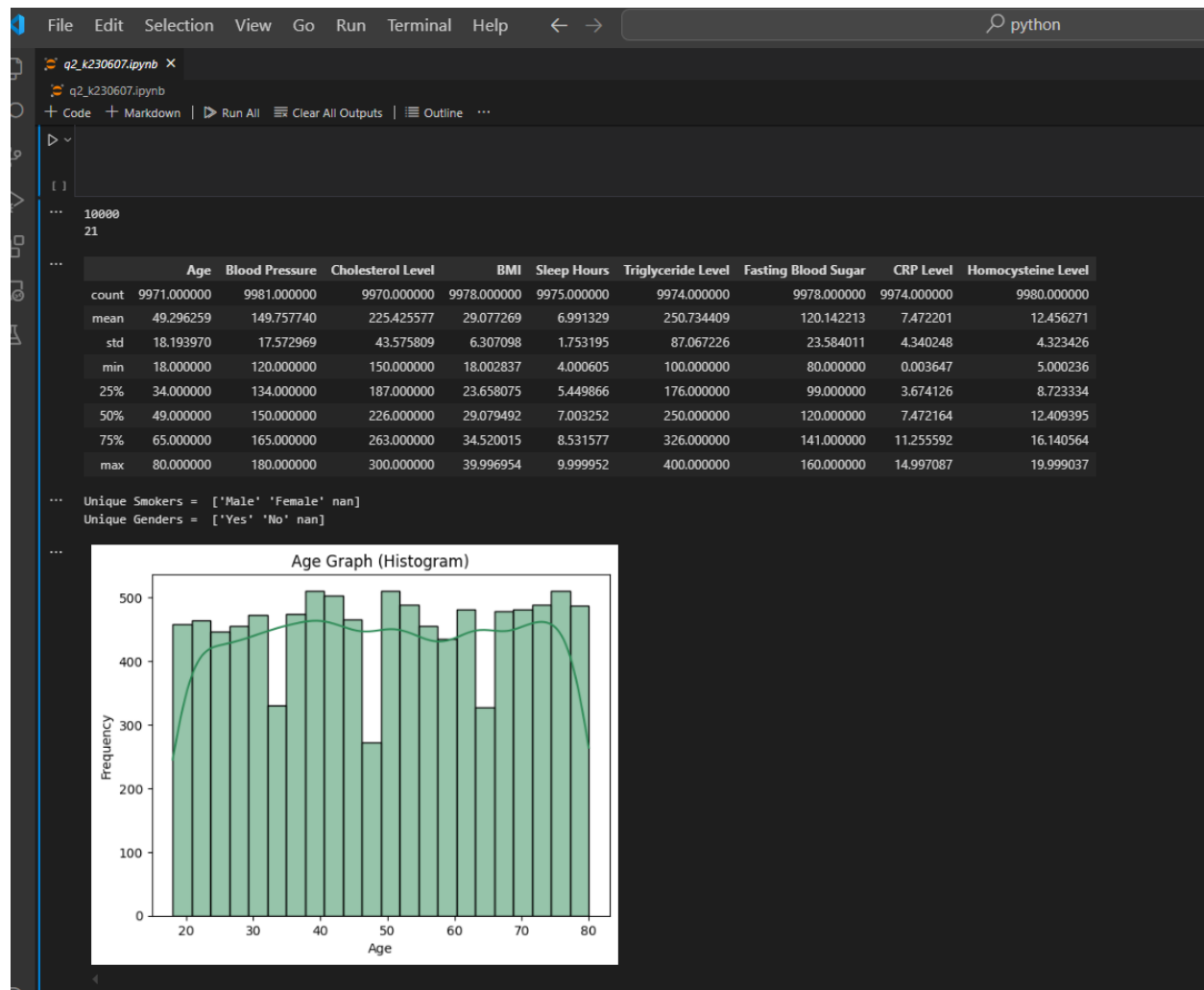




'Analyzed Data = '

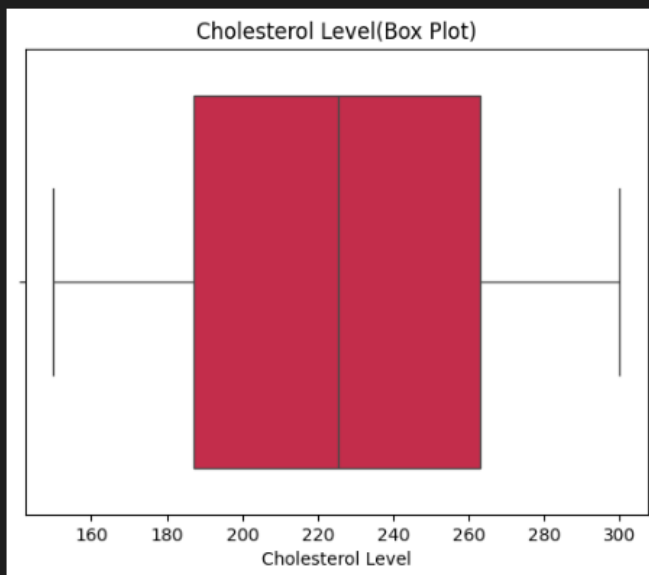
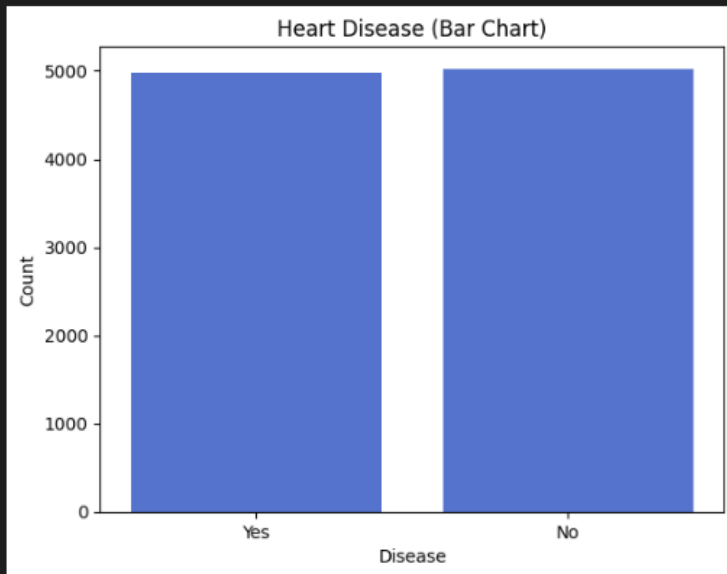
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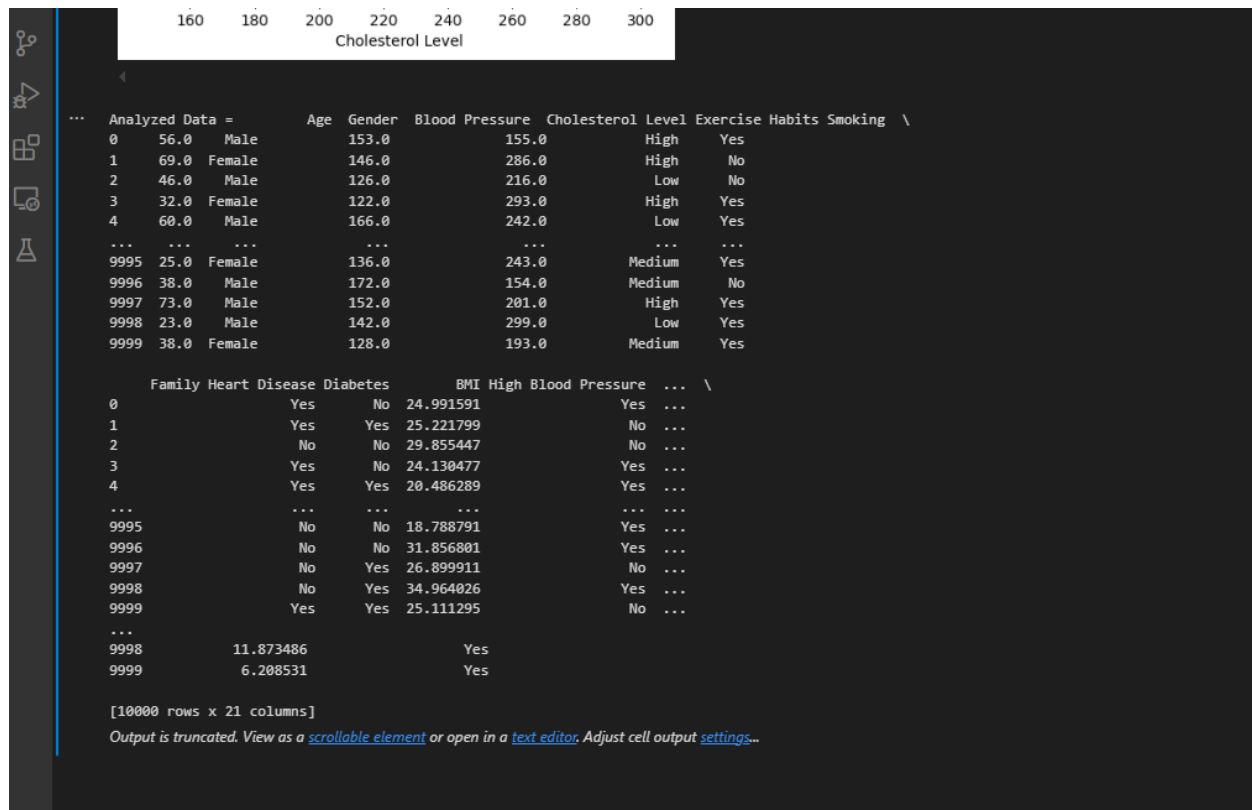
## Question # 2



q2\_k230607.ipynb

+ Code + Markdown ▶ Run All ⌵ Clear All Outputs | ⌵ Outline ...





\*\*\*\*\*END\*\*\*\*\*