Percentile Analysis

The Placement.csv file consists of placement data of a MBA batch students. The data includes Gender, Board of Studying in SSC and HSC, marks scored in SSC and HSC and HSC, bachelor's degree and MBA Subject Specialization, Degree Marks, Entrance test marks, MBA marks and Placement details with salary.

	sl_no	gender	ssc_p	ssc_b	hsc_p	hsc_b	hsc_s	degree_p	degree_t	workex	etest_p	specialisation	mba_p	status	salary
0	1	M	67.00	Others	91.00	Others	Commerce	58.00	Sci&Tech	No	55.0	Mkt&HR	58.80	Placed	270000.0
1	2	M	79.33	Central	78.33	Others	Science	77.48	Sci&Tech	Yes	86.5	Mkt&Fin	66.28	Placed	200000.0
2	3	M	65.00	Central	68.00	Central	Arts	64.00	Comm&Mgmt	No	75.0	Mkt&Fin	57.80	Placed	250000.0
3	4	M	56.00	Central	52.00	Central	Science	52.00	Sci&Tech	No	66.0	Mkt&HR	59.43	Not Placed	NaN
4	5	M	85.80	Central	73.60	Central	Commerce	73.30	Comm&Mgmt	No	96.8	Mkt&Fin	55.50	Placed	425000.0

25th, 50th, 75th, 99th and 100th percentiles have been found out using the python code

```
descriptive[columnName]["Q1:25%"]=dataset.describe()[columnName]["25%"]
descriptive[columnName]["Q2:50%"]=dataset.describe()[columnName]["50%"]
descriptive[columnName]["Q3:75%"]=dataset.describe()[columnName]["75%"]
descriptive[columnName]["99%"]=np.percentile(dataset[columnName],99)
descriptive[columnName]["Q4:100%"]=dataset.describe()[columnName]["max"]
```

The percentile values are mentioned below.

Out[96]:

	sl_no	ssc_p	hsc_p	degree_p	etest_p	mba_p	salary
mean	108.0	67.303395	66.333163	66.370186	72.100558	62.278186	288655.405405
median	108.0	67.0	65.0	66.0	71.0	62.0	265000.0
mode	1	62.0	63.0	65.0	60.0	56.7	300000.0
Q1:25%	54.5	60.6	60.9	61.0	60.0	57.945	240000.0
Q2:50%	108.0	67.0	65.0	66.0	71.0	62.0	265000.0
Q3:75%	161.5	75.7	73.0	72.0	83.5	66.255	300000.0
99%	212.86	87.0	91.86	83.86	97.0	76.1142	NaN
Q4:100%	215.0	89.4	97.7	91.0	98.0	77.89	940000.0

SSC_P

1. 25% of ssc pass marks are below 60.6
2. 50% of ssc pass marks are below 67
3. 75% of ssc pass marks are below 75.7

4. 99% of ssc pass marks are below 87
5. 100% of ssc pass marks are below 89.4
6. 7% of pass marks are between 67 and 60.6
7. 8% of pass marks are between 75.7 and 67
8. 12% of pass marks are between 87 and 75.7
9. 2% of pass marks are between 89.4 and 87

HSC_P

1. 25% of ssc pass marks are below 60.9
2. 50% of ssc pass marks are below 65
3. 75% of ssc pass marks are below 73
4. 99% of ssc pass marks are below 91.86
5. 100% of ssc pass marks are below 97.7
6. 5% of pass marks are between 65 and 60.9
7. 8% of pass marks are between 73 and 65
8. 18% of pass marks are between 91.86 and 73
9. 6% of pass marks are between 97.7 and 91.86

Degree_P

1. 25% of degree pass marks are below 61
2. 50% of degree pass marks are below 66
3. 75% of degree pass marks are below 72
4. 99% of degree pass marks are below 83.86
5. 100% of degree pass marks are below 91
6. 5% of pass marks are between 66 and 61
7. 6% of pass marks are between 72 and 66
8. 11% of pass marks are between 83.6 and 72
9. 8% of pass marks are between 91 and 83.86

Etest_P

1. 25% of degree pass marks are below 60
2. 50% of degree pass marks are below 71
3. 75% of degree pass marks are below 83.5
4. 99% of degree pass marks are below 97
5. 100% of degree pass marks are below 98
6. 11% of pass marks are between 60 and 71
7. 12% of pass marks are between 71 and 83.5
8. 14% of pass marks are between 83.6 and 97
9. 1% of pass marks are between 97 and 98

MBA_P

1. 25% of degree pass marks are below 57.9
2. 50% of degree pass marks are below 62
3. 75% of degree pass marks are below 66.25
4. 99% of degree pass marks are below 76.11
5. 100% of degree pass marks are below 77.89

6. 5% of pass marks are between 57.9 and 62
7. 4% of pass marks are between 62 and 66.25
8. 10% of pass marks are between 66.25 and 76.11
9. 1% of pass marks are between 76.11 and 77.89