

## Percentile Report

	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

### Dataset Overview:

The dataset has the information about the student's academic scores and placement data, and their salaries offered to those who got placed.

- It includes the fields such as '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'. It has 215 records.
- We found the percentiles of Q1, Q2, Q3, 99%, Q4.

### Dataset Description:

We will discuss about each column data

Min range of ssc\_p is 40.89

25% percentile (Q1) of the data lies between in the range of 40.89 to 60.6

50% percentile (Q2) of the data lies between in the range of 40.89 to 67.0

75% percentile (Q3) of the data between in the range of 40.89 to 75.7

99% percentile of the data lies between in the range of 40.89 to 87.0

100% percentile (Q4) of the data lies between in the range of 40.89 to 89.4

The difference between (Q1) and (Q2) is 6.4, and the difference between (Q2) and (Q3) is 8.7, and the difference between (Q3) and (Q4) is 13.7. and the difference between 99<sup>th</sup> percentile and (Q4) is 2.4 .

## Observations:

1. **25% of students** scored below **60.6%**.
2. **50% of students** scores below **67%**. Which has increased score compared to 25<sup>th</sup> percentile.
3. **75% of students** scored below **75.7%**. The increase from 50<sup>th</sup> percentile to 75<sup>th</sup> percentile is **8.7%**
4. The **99th percentile** is **87.0%**, indicating that **99% of students** scored below this level.
5. The **maximum score** (100th percentile) is **89.4%**, only **2.4% higher** than the 99th percentile. Showing that the top 1% of students scored highest score.
6. The **largest jump** in scores occurs between the **75th percentile (75.7%) and 100th percentile (89.4%)**, a difference of **13.7%**.

Upto 99<sup>th</sup> percentile, student scores remain below 87%. Only 1% of the students scored between 87% and 89.4%, indicating increased score of 2.4 which is highest . after Q3 there was a gradual increase towards the maximum score.

## Min range of hsc\_p is 42.75

25% percentile of the data lies between below 60.9 ranging from 42.75 to 60.9

50% percentile of the data lies between below 65.0 ranging from 42.75 to 65.0

75% percentile of the data lies between below 73.0 ranging from 42.75 to 73.0

99% percentile of the data lies between below 91.86 ranging from 42.75 to 91.86

100% percentile of the data lies between below 97.7 ranging from 42.75 to 97.70

The difference between (Q1) and (Q2) is 4.1, and the difference between (Q2) and (Q3) is 8, and the difference between (Q3) and (Q4) is 24.7. and the difference between 99<sup>th</sup> percentile and (Q4) is 5.84.

## Observations:

1. **25% of passed students** scored in hsc below **60.9%**
2. **The median (50% percentile)** is **65%**. Showing **4.1%** increased score from the 25<sup>th</sup> percentile.
3. **75% of students** scored below **73%** showing **8%** increase from 50<sup>th</sup> percentile.
4. **The 99% percentile** is **91.86%**, indicating **99%** of the students score below **91.86% and the top 1%** of the students scored between **91.86% and 97.70%**, a final increase of **5.84%**.

5. The **largest jump** in scores occurs between the **75th percentile (73%)** and **100th percentile (97.90%)**, a difference of **24.7%**

This shows that from **Q1 to Q3** there is a moderate increase in the scores followed by exceptional high scores form **99-100%** which says there is small group of top performers with highest scores.

### **Min range of degree\_p is 50**

25% percentile of the data lies between below 61.0 ranging from 50 to 61.0

50% percentile of the data lies between below 66.0 ranging from 50 to 66.0

75% percentile of the data lies between below 72 ranging from 50 to 72

99% percentile of the data lies between below 83.6 ranging from 50 to 83.6

100% percentile of the data lies between below 91 ranging from 50 to 91

The difference between (Q1) and (Q2) is 5, and the difference between (Q2) and (Q3) is 6, and the difference between (Q3) and (Q4) is 19. and the difference between 99<sup>th</sup> percentile and (Q4) is 7.4.

### **Observations:**

1. **25%** of degree students who have passed scores below **61%**
2. **The median (50% percentile)** is **66%**. Showing **5%** increased score from the **25<sup>th</sup> percentile**.
3. **75% of students** scored below **72%** showing **6%** increase from **50<sup>th</sup> percentile**.
4. **The 99% percentile** is **83.6%**, indicating **99%** of the students score below **83.6% and the top 1%** of the students scored between **83.6% and 91%**, a final increase of **7.4%**.
5. The **top 1% of students** scored between **83.6% and 91.0%**, with a **7.4% increase**, indicating a small group of **high achievers**.
6. The **largest jump** in scores occurs from the **75th percentile (72%) to the maximum (91%)**, a difference of **19%**, highlighting the performance gap between average students and top performers.

This shows that from **Q1 to Q3** there is a moderate increase in the scores followed by exceptional high scores form **99-100%** which says there is small group of top performers with highest scores.

### **Min range of etest\_p is 50**

25% percentile of the data lies between below 60.0 ranging from 50 to 60.0

50% percentile of the data lies between below 71.0 ranging from 50 to 71.0

75% percentile of the data lies between below 83.5 ranging from 50 to 83.5

99% percentile of the data lies between below 97 ranging from 50 to 97

100% percentile of the data lies between below 98 ranging from 50 to 98

The difference between (Q1) and (Q2) is 11, and the difference between (Q2) and (Q3) is 12.5, and the difference between (Q3) and (Q4) is 15.5. and the difference between 99<sup>th</sup> percentile and (Q4) is 1.

### **Observations:**

1. **25%** of degree students who have passed scores below **60%**.
2. **The median (50% percentile)** is **71%**. Showing **12.5%** increased score from the **25<sup>th</sup> percentile**.
3. **75% of students** scored below **83.5%** showing **12.5%** increase from **50<sup>th</sup> percentile**.
4. **The 99% percentile** is **97%**, indicating **99%** of the students score below **97% and the top 1%** of the students scored between **97%** and **98%**, a final increase of **1%**.
5. The **top 1% of students** scored between **97%** and **98%** with a **1% increase**, indicating a less increase in top scorers.
6. The **largest jump** in scores occurs from the **75th percentile (83.5%) to the maximum (98%)**, a difference of **15.5%**, highlighting the performance gap between average students and top performers.

This shows that in entrance test the all are well performed students whose scores are above 60% even in Q3 the students scored a good score above 80% . The score distribution indicating that most students had strong entrance test results. However, the narrow gap between the **99th and 100th percentiles** shows that top performers are closely grouped, with little variation among the very highest scores.

### **Min range of mba\_p is 51.21**

25% percentile of the data lies between below 57.9 ranging from 51.21 to 57.9

50% percentile of the data lies between below 62.0 ranging from 51.21 to 62

75% percentile of the data lies between below 66.2 ranging from 51.21 to 66.2

99% percentile of the data lies between below 76.11 ranging from 51.21 to 76.11

100% percentile of the data lies between below 77.9 ranging from 51.21 to 77.9

The difference between (Q1) and (Q2) is 4.1, and the difference between (Q2) and (Q3) is 4.2, and the difference between (Q3) and (Q4) is 11.7. and the difference between 99<sup>th</sup> percentile and (Q4) is 1.79.

### Observations:

1. **25% of degree students who have passed scores below 57.9%**
2. **The median (50% percentile) is 62%. Showing 4.1% increased score from the 25<sup>th</sup> percentile.**
3. **75% of students scored below 66.2% showing 4.2% increase from 50<sup>th</sup> percentile.**
4. **The 99% percentile is 76.11%, indicating 99% of the students score below 76.11% and the top 1% of the students scored between 76.11% and 77.9%, a final increase of 1.79%.**
5. **The top 1% of students scored between 76.11% and 77.9%, with a 1.79% increase, indicating a small group of high achievers.**
6. **The largest jump in scores occurs from the 75th percentile (66.2%) to the maximum (77.9%), a difference of 11.7%, highlighting the performance gap between average students and top performers.**

This shows that from **Q1 to Q3** there is a less increase in the scores followed by exceptional high scores from **Q3-Q4** above 75% of the students have scored average score of above 66% to below 77.9% which is less compared to ssc\_p, hsc\_p ,etest.

**Min range of salary is 2,00,000**

**Max salary is 3,90,000**

1. 25% percentile of the salary lies between below 2,40,000 ranging from 2lakhs to 2.4lakhs
2. 50% percentile of the data lies between below 2,65,000 ranging from 2lakhs to 2.65lakhs
3. 75% percentile of the data lies between below 3,00,000 ranging from 3,00,000
4. 99% percentile of the data has Nan
5. 100% percentile of the data lies between below 3,90,000 ranging from 3,90,000

The difference between (Q1) and (Q2) is 25,000, and the difference between (Q2) and (Q3) is 35,000, and the difference between (Q3) and (Q4) is 90000. and the difference between 99<sup>th</sup> percentile and (Q4) is None.

### Observations:

1. **25%** of degree students who have passed scores below 2,40,000.
2. **The median (50% percentile)** is 2,65,000. Showing **25,000** increased score from the **25<sup>th</sup> percentile**.
3. **75% of students** scored below **3,00,000** showing **35,000** increases from **50<sup>th</sup> percentile**.
4. The **largest jump** in scores occurs from the **75th percentile (3,00,000) to the maximum (3,90,000)**, a difference of **90,000**, highlighting the performance gap between average students and top performers.

This shows that the students offered salary ranging from 2,00,000 to 3,00,000 and few top performing students got the highest salary nearly 3,90,000.