

## Percentile – Assignment

	sl_no	ssc_p	hsc_p	degree_p	etest_p	mba_p	salary
Mean	108.0	67.303395	66.334744	66.358558	72.100558	62.278186	277648.648649
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
Q4:100%	215.0	89.4	91.15	88.5	98.0	77.89	390000.0

### Overall Summary in Terms of Percentiles

The table provides a percentile-based summary of academic performance (SSC, HSC, Degree, E-test, MBA percentages) and salary data, highlighting the distribution of these variables across the 25th (Q1), 50th (Q2/median), 75th (Q3), and 100th percentiles (Q4).

#### 1.SSC Percentage (ssc\_p):

Q1 (25th Percentile): 60.6

Q2 (50th Percentile/Median): 67.0

Q3 (75th Percentile): 75.7

Q4 (100th Percentile): 89.4

Summary: SSC scores are moderately spread with the middle 50% (IQR) ranging from 60.6 to 75.7.

#### 2.HSC Percentage (hsc\_p):

Q1 (25th Percentile): 60.9

Q2 (50th Percentile/Median): 65.0

Q3 (75th Percentile): 73.0

Q4 (100th Percentile): 91.15

Summary: HSC scores exhibit moderate variability, with the interquartile range (IQR) spanning from 60.9 to 73.0.

#### 3.Degree Percentage (degree\_p):

Q1 (25th Percentile): 61.0

Q2 (50th Percentile/Median): 66.0

Q3 (75th Percentile): 72.0

Q4 (100th Percentile): 88.5

Summary: Degree scores are moderately spread out, with the middle 50% ranging from 61.0 to 72.0.

#### 4. E-test Percentage (etest\_p):

Q1 (25th Percentile): 60.0

Q2 (50th Percentile/Median): 71.0

Q3 (75th Percentile): 83.5

Q4 (100th Percentile): 98.0

Summary: E-test scores show a wide spread, with a broader interquartile range from 60.0 to 83.5, indicating significant variability.

#### **5. MBA Percentage (mba\_p):**

Q1 (25th Percentile): 57.945

Q2 (50th Percentile/Median): 62.0

Q3 (75th Percentile): 66.255

Q4 (100th Percentile): 77.89

Summary: MBA scores have moderate variability, with the interquartile range from 57.945 to 66.255.

#### **6. Salary:**

Q1 (25th Percentile): 240,000.0

Q2 (50th Percentile/Median): 265,000.0

Q3 (75th Percentile): 300,000.0

Q4 (100th Percentile): 390,000.0

Summary: Salaries show substantial variability with a wide range. The interquartile range spans from 240,000.0 to 300,000.0, indicating significant differences in earnings within the middle 50%.

#### **Overall Summary:**

Academic Performance: Across all academic metrics (SSC, HSC, Degree, E-test, MBA), the interquartile ranges indicate moderate variability, with each metric showing a different degree of spread around the median.

Salary: Salary data shows a higher degree of variability, with a significant range from the 25th to the 75th percentile, and even more variation extending to the 100th percentile. This suggests a notable disparity in earnings among individuals.

This percentile-based summary provides a clear picture of the distribution and variability of academic performance and salary data, emphasizing the range within which most data points fall and highlighting the overall spread of each variable.