Percentile or Quartile-Based Descriptive Analysis of Placement Data

Each section presents:

- Quartile values (Q1, Q2, Q3, Q4)
- Differences between quartiles

1. Column: ssc_p (Secondary School Certificate Percentage)

Quartile	Value
Q1 (25%)	60.60
Q2 (50%)	67.00
Q3 (75%)	75.70
Q4 (100%)-Max	89.40

Differences Between Quartiles:

- Q2 – Q1 = **6.40**
- Q3 – Q2 = **8.70**
- Q4 – Q3 = **13.70**

📌 **Interpretation**:
The jump from Q3 to Q4 is larger, indicating some high academic performers.

2. Column: hsc_p (Higher Secondary Certificate Percentage)

Quartile	Value
Q1 (25%)	60.90
Q2 (50%)	65.00
Q3 (75%)	73.00
Q4 (100%) – Max	97.70

Differences Between Quartiles:

- Q2 – Q1 = **4.10**
- Q3 – Q2 = **8.00**
- Q4 – Q3 = **24.70**

Interpretation:
A very large gap between Q3 and Q4 suggests presence of extremely high scorers—potential outliers.

3. Column: degree_p (Degree Percentage)

Quartile	Value
Q1 (25%)	61.00
Q2 (50%)	66.00
Q3 (75%)	72.00
Q4 (100%) – Max	91.00

Differences Between Quartiles:

- Q2 – Q1 = **5.00**
- Q3 – Q2 = **6.00**
- Q4 – Q3 = **19.00**

Interpretation:
A moderate increase from Q1 to Q3, but a large leap to Q4. Indicates a few standout graduates.

4. Column: etest_p (Employability Test Percentage)

Quartile	Value
Q1 (25%)	60.00
Q2 (50%)	71.00
Q3 (75%)	83.50
Q4 (100%) – Max	98.00

Differences Between Quartiles:

- Q2 – Q1 = **11.00**
- Q3 – Q2 = **12.50**
- Q4 – Q3 = **14.50**

Interpretation:
The test scores show a wide spread across all quartiles, reflecting diversity in skill levels among students.

5. Column: mba_p (MBA Percentage)

Quartile	Value
Q1 (25%)	57.945

Quartile	Value
Q2 (50%)	62.00
Q3 (75%)	66.255
Q4 (100%) – Max	77.89

Differences Between Quartiles:

- Q2 – Q1 = **4.06**
- Q3 – Q2 = **4.26**
- Q4 – Q3 = **11.64**

Interpretation:
Consistent spread in the lower three quartiles, with a notable jump to Q4. This suggests a small group of high performers.

6. Column: salary (Annual Salary in INR)

Quartile	Value
Q1 (25%)	240,000
Q2 (50%)	265,000
Q3 (75%)	300,000
Q4 (100%) – Max	940,000

Differences Between Quartiles:

- Q2 – Q1 = **25,000**
- Q3 – Q2 = **35,000**
- Q4 – Q3 = **640,000**

Interpretation:
A huge jump from Q3 to Q4 shows the presence of a few high-paying outliers, which can dramatically affect the mean.