Interquartile Range

	sl_no	ssc_p	hsc_p	degree_p	etest_p	mba_p	salary
mean	108	67.3034	66.3332	66.3702	72.1006	62.2782	288655
median	108	67	65	66	71	62	265000
mode	1	62	63	65	60	56.7	300000
Q1:25%	54.5	60.6	60.9	61	60	57.945	240000
Q2:50%	108	67	65	66	71	62	265000
Q3:75%	161.5	75.7	73	72	83.5	66.255	300000
Q4:100%	215	89.4	97.7	91	98	77.89	940000
IQR	107	15.1	12.1	11	23.5	8.31	60000
1.5rule	160.5	22.65	18.15	16.5	35.25	12.465	90000
lesser	-106	37.95	42.75	44.5	24.75	45.48	150000
greater	322	98.35	91.15	88.5	118.75	78.72	390000
min	1	40.89	37	50	50	51.21	200000
max	215	89.4	97.7	91	98	77.89	940000

Formulas:

- IQR=Q3−Q1
- 1.5×IQR
- Lesser = Q1 − 1.5 × IQR
- Greater = Q3 + 1.5 × IQR

Calculations:

ssc_p

- IQR = 75.7 − 60.6 = 15.1
- 1.5 × IQR = 1.5 × 15.1 = 22.65
- Lesser = 60.6 − 22.65 = 37.95
- greater = 75.7 + 22.65 = 98.35
- Min = 40.89 → 40.89 > 37.95 **no low-end outlier**.
- Max = 89.4 → 89.4 < 98.35 **no high-end outlier**.

hsc_p

- IQR = 73 − 60.9 = 12.1
- 1.5 × IQR = 1.5 × 12.1 = 18.15
- Lesser= 60.9 − 18.15 = 42.75
- greater= 73 + 18.15 = 91.15
- Min = 37 → 37 < 42.75 **no low-end outlier**.
- Max = 97.7 → 97.7 > 91.15 **high-end outlier.**

degree_p

- IQR = 72 − 61 = 11.0
- 1.5 × IQR = 1.5 × 11.0 = 16.5
- Lesser = 61 − 16.5 = 44.5
- greater = 72 + 16.5 = 88.5
- Min = 50 → 50 > 44.5 **no low-end outlier**.
- Max = 91 → 91 > 88.5 **high-end outlier.**

etest_p

- IQR = 83.5 − 60 = 23.5
- 1.5 × IQR = 1.5 × 23.5 = 35.25
- Lesser = 60 − 35.25 = 24.75
- Greater = 83.5 + 35.25 = 118.75
- Min = 50 → 50 > 24.75 **no low-end outlier**.
- Max = 98 → 98 < 118.75 **no high-end outlier**.

mba_p

- IQR = 66.255 − 57.945 = 8.31
- 1.5 × IQR = 1.5 × 8.31 = 12.465
- Lesser = 57.945 − 12.465 = 45.48
- Greater = 66.255 + 12.465 = 78.72

- Min = 51.21 → 51.21 > 45.48 **no low-end outlier**.
- Max = 77.89 → 77.89 < 78.72 **no high-end outlier**.

salary

- IQR = 300000 − 240000 = 60000
- 1.5 × IQR = 1.5 × 60000 = 90000
- Lesser = 240000 − 90000 = 150000
- Greater = 300000 + 90000 = 390000
- Min = 200000 → 200000 > 150000 **no low-end outlier**.
- Max = 940000 → 940000 > 390000 **high-end outlier exists**.