

IQR Descriptive Data Analysis

	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
Q: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
IQR	107.0	15.1	12.1	11.0	23.5	8.31	60000.0
1.5rule	160.5	22.65	18.15	16.5	35.25	12.465	90000.0
Lesser	-106.0	37.95	42.75	44.5	24.75	45.48	150000.0
Greater	322.0	98.35	91.15	88.5	118.75	78.72	390000.0
Max	215	89.4	97.7	91.0	98.0	77.89	940000.0
Min	1	40.89	37.0	50.0	50.0	51.21	200000.0

- The IQR value of the “ssc_p” is 15.1 (Balanced Data).
- No “ssc_p” less than 37.95 (lesser outlier) because minimum value is 0.89 and also no “ssc_p’ greater than 98.35 (greater outlier) because maximum value is 89.4.
- The student’s “degree_p” IQR is 11. Here $44.5 < 50$ no lesser outlier and $88.8 < 91.0$ however 91 is greater than 88.5 so there is greater outlier.
 - ✓ Minimum value: 50.0
 - ✓ Maximum value: 91.0
 - ✓ Lesser outlier: 44.5
 - ✓ Greater outlier: 88.5

- The student's salary IQR is 60000.0, The student salary has no less than 1,50,000 but maximum value is too high in the sequence of data.

- ✓ Minimum value: 200000.0
- ✓ Maximum value: 940000.0
- ✓ Lesser outlier: 150000.0
- ✓ Greater outlier: 390000.0