DATA SCIENCE – UNIVARIATE ANALYSIS – MEAN, MEDIAN, MODE – REPORT ON PLACEMENT DATASET

	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

Inference from the table:

MEAN:

- Given are 215 students information about their education history from a class.
- The average 10th pass mark of the class = 67
- The average 12th pass mark of the class = 66
- The average Degree pass mark of the class = 66
- The average Entrance test pass mark of the class = 72
- The average MBA pass mark of the class = 62
- Hence the average salary the class = RS 2,88,655

INFERENCE:

Hence the given Placement dataset contains information of an MBA passed out class students history of marks. This is an average performing class and got above average only in the entrance test.

MEDIAN:

- Got some outliers only in the salary column.
- After removing outliers from the salary column the average salary of the class = RS 2,65,000

INFERENCE:

Median also gives the average but removes the outliers so other information are same as Mean inference. But only the average salary of the class is decreased from that is found in Mean due to outliers.

MODE:

- The 10th pass mark that has been repeatedly scored by the students = 62
- The 12th pass mark that has been repeatedly scored by the students = 63
- The Degree pass mark that has been repeatedly scored by the students = 65
- The Entrance test pass mark that has been repeatedly scored by the students = 60
- The MBA pass mark that has been repeatedly scored by the students = 57.5
- The repeated salary of the class = RS 3,00,000

INFERENCE:

Hence it is an average performing class. And most of the students of the class with average mark is getting RS 3,00,000 as salary.

FINAL INFERENCE:

It is an average performing class, but they can score above average if they are given extra training as they were given during their Entrance exam time. So that their marks, wouldn't be dropped in MBA class marks and their average salary would have been higher. Hence in future the students with average marks will get this much average salary only.