# Descriptive Analysis

# IQR – INTER QUARTILE 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 |
| **Min** | 1 | 40.89 | 37 | 50 | 50 | 51.21 | 200000 |
| **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 Outlier** | -106 | 37.95 | 42.75 | 44.5 | 24.75 | 45.48 | 150000 |
| **Greater Outlier** | 322 | 98.35 | 91.15 | 88.5 | 118.75 | 78.72 | 390000 |
| **Minimum** | 1 | 40.89 | 37 | 50 | 50 | 51.21 | 200000 |
| **Maximum** | 215 | 89.4 | 97.7 | 91 | 98 | 77.89 | 940000 |

**From the above we can confirm below points on Lesser and Greater Outlier Existence:**

| Sr.No. | Column Name | Minimum Value | Lesser Outlier | Minimum Value < Lesser Outlier | Potential Lesser Outlier Exists |
|---|---|---|---|---|---|
| 1 | ssc_p | 40.89 | 37.95 | FALSE | NO |
| **2** | **hsc_p** | **37** | **42.75** | **TRUE** | **YES** |
| 3 | degree_p | 50 | 44.5 | FALSE | NO |
| 4 | etest_p | 50 | 24.75 | FALSE | NO |
| 5 | mba_p | 51.21 | 45.48 | FALSE | NO |
| 6 | salary | 200000 | 150000 | FALSE | NO |

**Note: The highlighted column has the potential lesser outlier**

| Sr.No. | Column Name | Maximum Value | Greater Outlier | Maximum Value > Greater Outlier | Potential Greater Outlier Exists |
|---|---|---|---|---|---|
| 1 | ssc_p | 89.4 | 98.35 | FALSE | NO |
| **2** | **hsc_p** | **97.7** | **91.15** | **TRUE** | **YES** |
| **3** | **degree_p** | **91** | **88.5** | **TRUE** | **YES** |
| 4 | etest_p | 98 | 118.75 | FALSE | NO |
| 5 | mba_p | 77.89 | 78.72 | FALSE | NO |
| **6** | **salary** | **940000** | **390000** | **TRUE** | **YES** |

**Note: The highlighted column has the potential greater outlier**