

IQR Calculation

IQR - Calculation

① DAY

min	Q_1	Median	Q_3	max
32	56	74.5	82.5	99

$$\underline{\underline{IQR}} = Q_3 - Q_1 = 82.5 - 56 = \underline{\underline{26.5}}$$

Lesser Outlier \Rightarrow

$$Q_1 - (1.5)^*(IQR)$$

$$= 56 - (1.5)(26.5)$$

$$= 56 - 39.75 = \underline{\underline{16.25}}$$

min > Lesser Outlier

So No Outlier present.

Greater Outlier:

$$Q_3 + (1.5)^*(IQR)$$

$$= \underline{\underline{122.25}}$$

$$\text{max} < 122.25$$

No Greater Outlier is present.

IQR Calculation

② Night

min	Q_1	median	Q_3	max
25.5	78	81	89	98

$$IQR = Q_3 - Q_1 = 89 - 78 = 11$$

Lower Outlier

$$\begin{aligned} Q_1 - (1.5)(IQR) \\ = 78 - (1.5)(11) = 61.5 \end{aligned}$$

min < Lower Outlier

So, Outlier present.

Greater Outlier:

$$\begin{aligned} Q_3 + (1.5)(IQR) \\ = 89 + (1.5)(11) \\ = 105.5 \end{aligned}$$

max < Greater Outlier.

So No Greater Outlier is present.