**IQR Calculation**

**Given Dataset :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Minimum** | **Q1** | **Median** | **Q3** | **Maximum** |
| **Day** | **32** | 56 | 74.5 | 82.5 | **99** |
| **Night** | **25.5** | 78 | 81 | 89 | **98** |

**Calculation of IQR for Given Dataset:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  | **Lesser Outlier** | **Greater Outlier** |
|  | **IQR = Q3-Q1** | **1.5 \* IQR** | **Q1 - 1.5 \* IQR** | **Q3 + 1.5 \* IQR** |
| **Day** | 26.5 | 39.75 | **16.25** | **122.25** |
| **Night** | 11 | 16.5 | **61.5** | **105.5** |

We can conclude from the above calculation that:

* There are **No Presence of any Lesser Outlier(s)** for the **Row Item – Day** of given Dataset, Since the Minimum Value of Dataset **(32)** which lies within the Calculated Lesser Outlier Range **(16.25)**

**(i.e) 16.25 < 32**

* There are **No Presence of any Greater Outlier(s)** for the **Row Item – Day** of given Dataset, Since the Maximum Value of Dataset **(99)** which lies within the Calculated Lesser Outlier Range **(122.25)**

**(i.e) 122.25 > 99**

* There is **Presence of Lesser Outlier(s)** for the **Row Item – Night** of given Dataset, Since the Minimum Value of Dataset **(25.5)** which Not lies within the Calculated Lesser Outlier Range **(61.5)**

**(i.e) 61.5 > 25.5**

* There are **No Presence of any Greater Outlier(s)** for the **Row Item – Day** of given Dataset, Since the Maximum Value of Dataset **(98)** which lies within the Calculated Lesser Outlier Range **(105.5)**

**(i.e) 105.5 > 98**