

**Mean:**

The Similarity between the values.

**Age:** The average age of people in the dataset is 51.56

**bp:** The people have bp at an average of 76.175

**sg (Sugar)**: The people have sugar at an average of 1.0156

**su (Serum Uric):** The people have Serum Uric Acid at an average of 0.395

**bgr (filtration Rate):** The people have filtration Rate at an average of 0145.06

**bu (Blood Urea):** The people have blood urea at an average of 56.693

**sc (Serum Creatine):** The people have Serum Creatine at an average of 2.997

**sod:** The people have sod at an average of 137.63

**Pot :** The people have pot at an average of 4.5

**hemo (hemoglobin):** The people have Serum Creatine at an average of 12.5

**pcv(Platelet Count):** The people have Serum Creatine at an average of 39.06

**wc(White Blood Corpuscles):** The people have Serum Creatine at an average of 8298.5

**rc(Red Blood Corpuscles):** The people have Serum Creatine at an average of 4.73

Median:

The midpoint of data and it mostly helps in eliminating outliers.

**Age:** The Mid value of age is 55

**bp:** The Mid value of bp is 55

**sg (Sugar)**: The Mid value of sg is 1.02

**su (Serum Uric):** The Mid value of su is 0

**bgr (filtration Rate):** The Mid value of age is 121

**bu (Blood Urea):** The Mid value of bu is 42

**sc (Serum Creatine):** The Mid value of sc is 1.3

**sod:** The Mid value of sod is 138

**Pot :** The Mid value of pot is 4.4

**hemo (hemoglobin):** The Mid value of hemo is 12.65

**pcv(Platelet Count):** The Mid value of pcv is 40

**wc(White Blood Corpuscles):** The Mid value of wc is 8000

**rc(Red Blood Corpuscles):** The Mid value of age is 4.8

**Conclusion:**

**The above values for all the criteria could be in that range because median eliminates outliers but it will take outliers in to the account**

**Eg: In the above data normally, a person should have wc of 8000.Similarly other values.**

**Mode:**

Most repeated value in the dataset.

For eg: In the above dataset the people of age 55 is available more compared to other ages. Similarly, for other data's

**Q1:25:**

It tells the value exist between the range.

**Age:** The 25% of people’s age are within the range 42

**bp:** The 25% of people has bp within the range of 70

**sg (Sugar)**: The 25% of people has sg within the range of 1.01

**su (Serum Uric):** The 25% of people has su within the range of 0

**bgr (filtration Rate):** The 25% of people has bgr within the range of 101

**bu (Blood Urea):** The 25% of people has bu within the range of 27

**sc (Serum Creatine):** The 25% of people has sc within the range of 0.9

**sod:** The 25% of people has sod within the range of 136

**Pot :** The 25% of people has pot within the range of 4

**hemo (hemoglobin):** The 25% of people has hemo within the range of 10.875

**pcv(Platelet Count):** The 25% of people has pcv within the range of 34

**wc(White Blood Corpuscles):** The 25% of people has wc within the range of 6975

**rc(Red Blood Corpuscles):** The 25% of people has bp within the range of 4.5

**Q1:50**

It tells the value exist between the range.

**Age:** The 50% of people’s age are within the range 55

**bp:** The 50% of people has bp within the range of 80

**sg (Sugar)**: The 50% of people has sg within the range of 1.02

**su (Serum Uric):** The 50% of people has su within the range of 0

**bgr (filtration Rate):** The 50% of people has bgr within the range of 121

**bu (Blood Urea):** The 50% of people has bu within the range of 42

**sc (Serum Creatine):** The 50% of people has sc within the range of 1.3

**sod:** The 50% of people has sod within the range of 138

**Pot :** The 50% of people has pot within the range of 4.4

**hemo (hemoglobin):** The 50% of people has hemo within the range of 12.65

**pcv(Platelet Count):** The 50% of people has pcv within the range of 40

**wc(White Blood Corpuscles):** The 50% of people has wc within the range of 8000

**rc(Red Blood Corpuscles):** The 50% of people has bp within the range of 4.8

**Q1:100:**

It tells the value exist between the range.

**Age:** The 100% of people’s age are within the range 90

**bp:** The 75% of people has bp within the range of 180

**sg (Sugar)**: The 75% of people has sg within the range of 1.02

**su (Serum Uric):** The 75% of people has su within the range of 5

**bgr (filtration Rate):** The 75% of people has bgr within the range of 400

**bu (Blood Urea):** The 75% of people has bu within the range of 391

**sc (Serum Creatine):** The 75% of people has sc within the range of 76

**sod:** The 75% of people has sod within the range of 163

**Pot :** The 75% of people has pot within the range of 47

**hemo (hemoglobin):** The 75% of people has hemo within the range of 17.8

**pcv(Platelet Count):** The 25% of people has pcv within the range of 54

**wc(White Blood Corpuscles):** The 25% of people has wc within the range of 26400

**rc(Red Blood Corpuscles):** The 25% of people has bp within the range of 8

**Q1:75:**

It tells the value exist between the range.

**Age:** The 75% of people’s age are within the range 64

**bp:** The 75% of people has bp within the range of 80

**sg (Sugar)**: The 75% of people has sg within the range of 1.02

**su (Serum Uric):** The 75% of people has su within the range of 0

**bgr (filtration Rate):** The 75% of people has bgr within the range of 150

**bu (Blood Urea):** The 75% of people has bu within the range of 61.75

**sc (Serum Creatine):** The 75% of people has sc within the range of 2.725

**sod:** The 75% of people has sod within the range of 141

**Pot :** The 75% of people has pot within the range of 4.8

**hemo (hemoglobin):** The 75% of people has hemo within the range of 14.625

**pcv(Platelet Count):** The 25% of people has pcv within the range of 44

**wc(White Blood Corpuscles):** The 25% of people has wc within the range of 9400

**rc(Red Blood Corpuscles):** The 25% of people has bp within the range of 5.1

**IQR:**

It is the value between the two quartiles ie Q3-Q1

Eg : In above dataset for age Q3 64 and Q1 is 42 so Q3-Q1 is 22

**Lesser**

**Q1-1.5\*IQR**

**Age:** Q1=42, 1.5\*IQR=33

Q1-1.5\*IQR = 42-33=9

**Greater**

**Q3+1.5\*IQR**

**Age:** Q3=64, 1.5\*IQR=33

Q3+1.5\*IQR = 64+33=97

**Min**

The minimum value of the particular column.

Eg: Age: 2

**Max**

The maximum value of the particular column

Eg: Age:90

The **Lesser, Greater, min,max helps in identifying the outliers of the particular attribute**.

**The Lower outlier can find by the following comparison**

The min value less than lesser value.

The **outliers are available in the following data columns** of the above dataset

**Age:**

Min: 2.0 < Lesser: 9.0

**bp:**

Min: 50 < Lesser: 55

**bgr:**

Min: 22 < Lesser: 27.5

**sod:**

Min: 4.5 < Lesser: 126

**pot:**

Min: 2.5 < Lesser: 2.8

**hemo:**

Min: 3.1 < Lesser: 5.25

**pcv:**

Min: 9 < Lesser: 19.0

**wc:**

Min: 2200 < Lesser: 3337.5

**rc:**

Min: 2.1 < Lesser: 3.6

**The higher outlier can find by the following comparison**

The max value greater than greater value are outliers which can be removed from the dataset.

The **outliers are available in the following data columns** of the above dataset

**bp:**

Max: 180 > greater: 95

**su:**

Max: 5 > greater: 0

**bgr:**

Max: 490 < greater: 223.5

**bu:**

Max: 391 > greater: 113.875

**sc:**

Max: 76 > greater: 5.4625

**sod:**

Max: 163 > greater: 150

**pot:**

Max: 47 > greater: 6

**wc:**

Max: 26400 > greater: 130.75

**rc:**

Max: 8 > greater: 6



**Output after removing outliers**



