Part 1) Understanding the patterns within the traffic data.

To analyze the variation in congestion rate along with other variables involved in the dataset.
This helps in understanding at what rate the traffic moves and the factors contributing towards it.

The average slowness in hours of traffic

AVERAGE of Slowness i
10.1

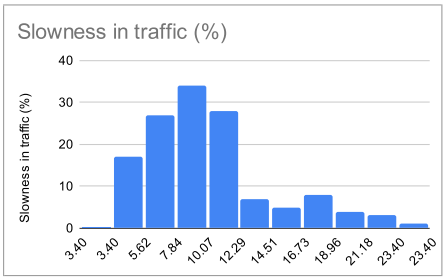
The average slowness across hours values.

The range in terms of hours between maximum to minimum average slowness

Hour	AVERAGE of Slow	
19:30	17.86	< Max avg slowness
07:00	3.96	< Min avg slowness
Hour Range -	12:30	

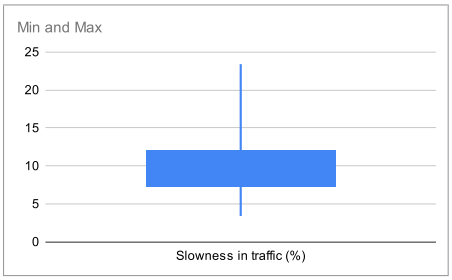
Insight - A time period of 12.5 Hrs defines when we see the traffic the most where the average slowness hovers around 10.1%.

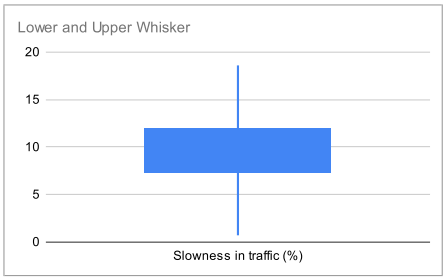
Histogram For Slowness in traffic



Box Plot For Slowness in traffic

Slowness in traffic (	Min	Lower Whisker	Q1	Q3	Upper Whisker	Max
Slowness in traffic (	3.40	0.6875	7.4	11.875	18.5875	23.40





Insight - By analysing the above charts, we can see that we have outliers on the higher side of the data (slowness in traffic).

Underfstanding the major variables contributing to the slowness in traffic

Broken Truck	Frequency(Broken Truck)
0	63
1	43
2	16
3	6
4	5
5	1

Immobilized bus	Frequency
0	99
1	26
2	8
4	1

Defect(trolleybuses network)	Frequency
0	115
1	15
2	2
3	1
8	1

Semaphore off	Frequency
0	121
1	11
2	1
4	1

Lack of electricity	Frequency
0	124
1	7
2	1
3	1
4	1

Insight -
These Highlighted cells signify the frequency of different variables that cause slowness in traffic
Order Wise -
Broken Truck > Immobilized Bus > Defect(trolleubus network) > Semaphore Off > Lack Of Electricity

Major Contributors In Slowness In Traffic