Data Engineering Graphs & Plots

Task 2.I Numeric Results & Graph:

NORTH LANE SPEED DDS									
	Range	Q1	Q2	Q3	IQR				
Lane									
1	57.787	24.233	28.584	31.691	7.458				
2	98.174	23.613	28.584	32.310	8.697				
3	60.272	24.855	30.447	34.176	9.321				

Figure 1: North Lane Speed DDS Report

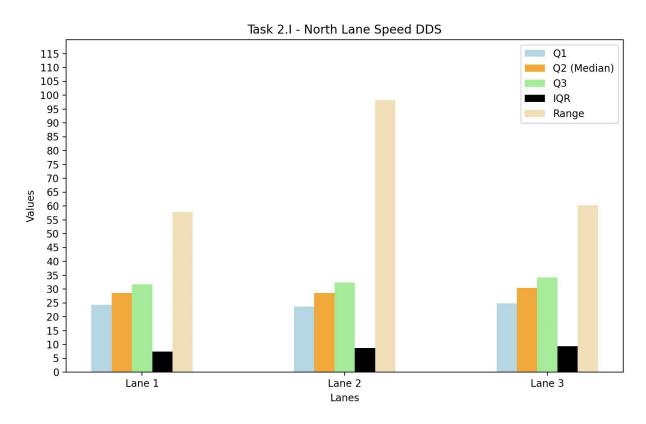


Figure 2: North Lane Speed DDS Graph

Task 2.II Numeric Results & Graph:

SOUTH	LANE SPEED	DDS			
	SouthRange	SouthQ1	SouthQ2	SouthQ3	SouthIQR
Lane					
4	76.430	32.932	36.661	39.768	6.836
5	62.757	31.691	34.798	37.903	6.212
6	53.438	30.447	33.554	36.661	6.214

Figure 3: South Lane Speed DDS Report

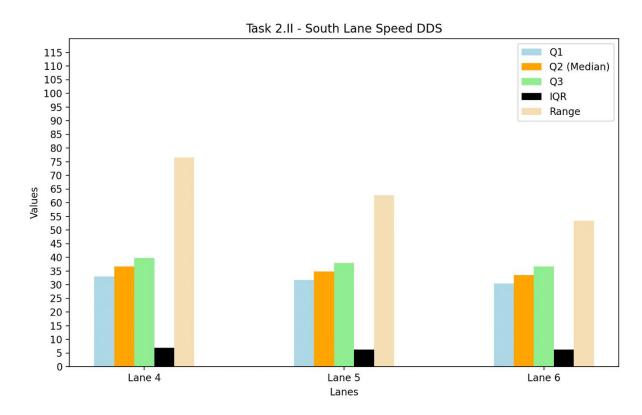


Figure 4: South Lane Speed DDS Graph

Task 2.III Numeric Results & Graph:

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TASK 2.III
NORTH LANES
Lane Size [First Third, Second Third, Last Third] of the hour: [1050 994 871]
Range Lane 1: 179,
Q1 Lane 1: 932.5,
Q2 Lane 1: 994.0,
Q3 Lane 1: 1022.0,
IQR Lane 1: 89.5
Lane Size [First Third, Second Third, Last Third] of the hour: [1211 1172 1006]
Range Lane 2: 205,
Q1 Lane 2: 1089.0,
Q2 Lane 2: 1172.0,
Q3 Lane 2: 1191.5,
IQR Lane 2: 102.5
Lane Size [First Third, Second Third, Last Third] of the hour: [1265 1209 943]
Range Lane 3: 322,
Q1 Lane 3: 1076.0,
Q2 Lane 3: 1209.0,
Q3 Lane 3: 1237.0,
IQR Lane 3: 161.0
```

Figure 5: Traffic Volume of North Lanes DDS

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SOUTH LANES
Lane Size [First Third, Second Third, Last Third] of the hour: [541 605 520]
 Range Lane 4: 85,
 Q1 Lane 4: 530.5,
 Q2 Lane 4: 541.0,
 Q3 Lane 4: 573.0,
 IQR Lane 4: 42.5
Lane Size [First Third, Second Third, Last Third] of the hour: [674 673 639]
 Range Lane 5: 35,
 Q1 Lane 5: 656.0,
 Q2 Lane 5: 673.0,
 Q3 Lane 5: 673.5,
 IQR Lane 5: 17.5
Lane Size [First Third, Second Third, Last Third] of the hour: [919 850 772]
 Range Lane 6: 147,
 Q1 Lane 6: 811.0,
 Q2 Lane 6: 850.0,
 Q3 Lane 6: 884.5,
 IQR Lane 6: 73.5
```

Figure 6: Traffic Volume of South Lanes DDS

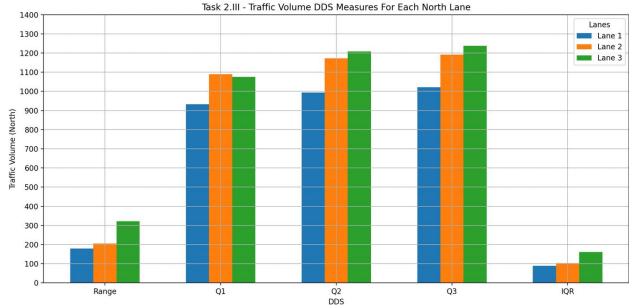
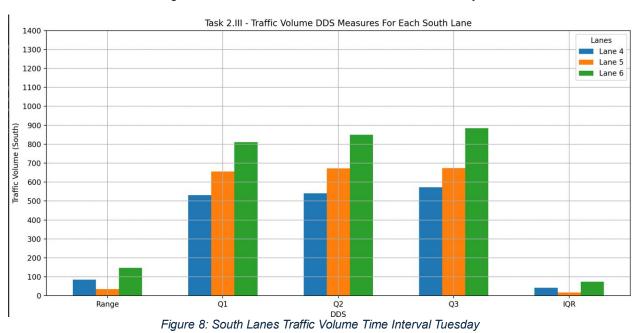


Figure 7: North Lanes Traffic Volume Time Interval Tuesday



Task 3.I Numeric Results & Graph:

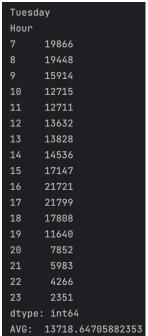


Figure 9: Tuesday Hour Traffic Volume + Average Per Hour

```
Friday
Hour
      19225
      19092
      15587
10
      13138
      14071
12
      15477
13
      15798
      16827
      18676
      21448
17
      20596
18
      15412
      11080
20
       8097
       6088
22
       5592
23
       4165
dtype: int64
AVG: 14139.35294117647
```

Figure 10: Friday Hour Traffic Volume + Average Per Hour

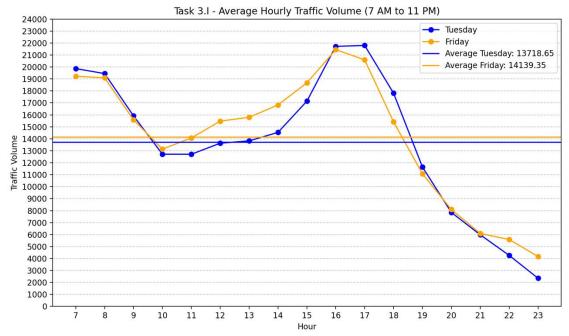


Figure 11: Average Per Hour Plot Friday + Tuesday