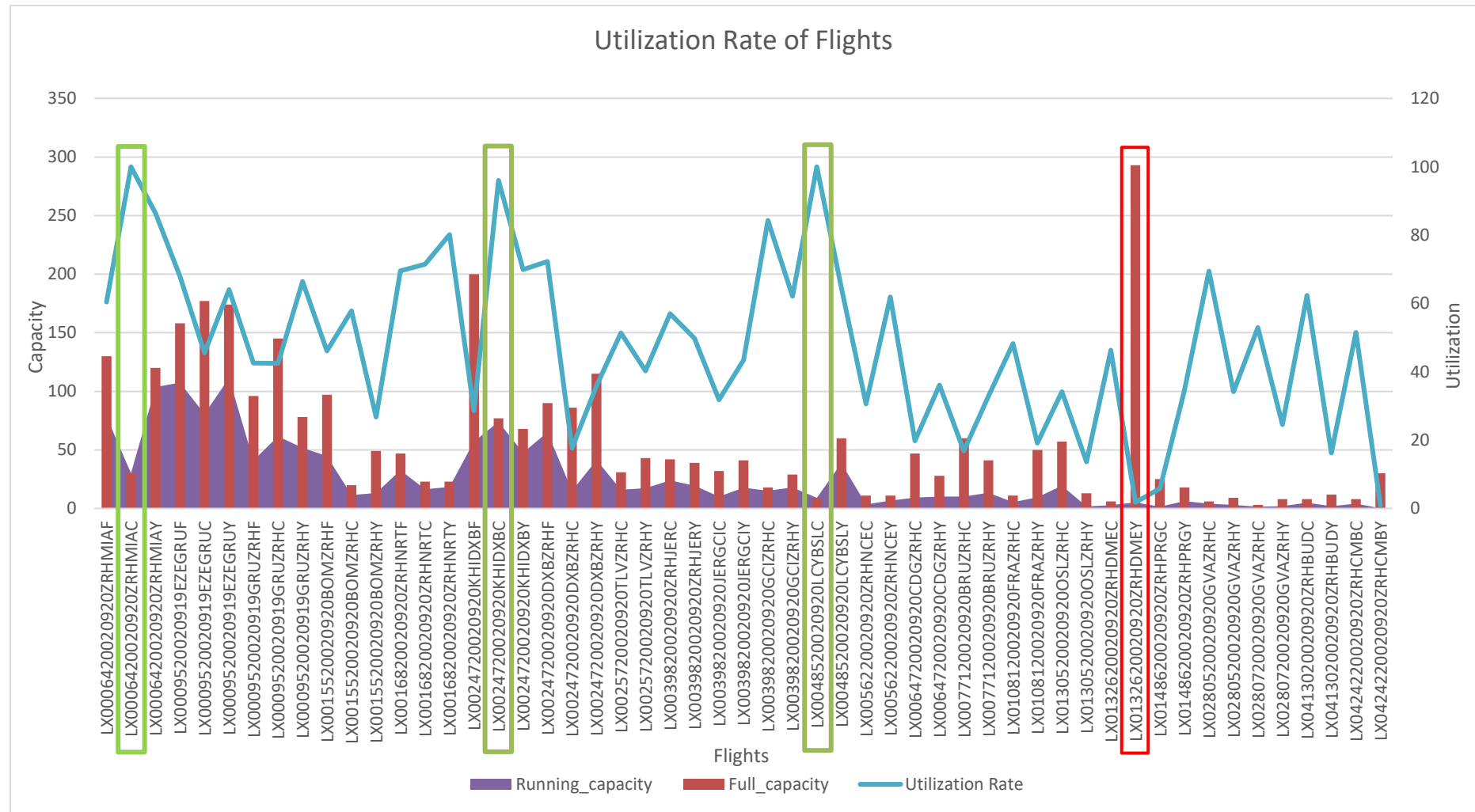
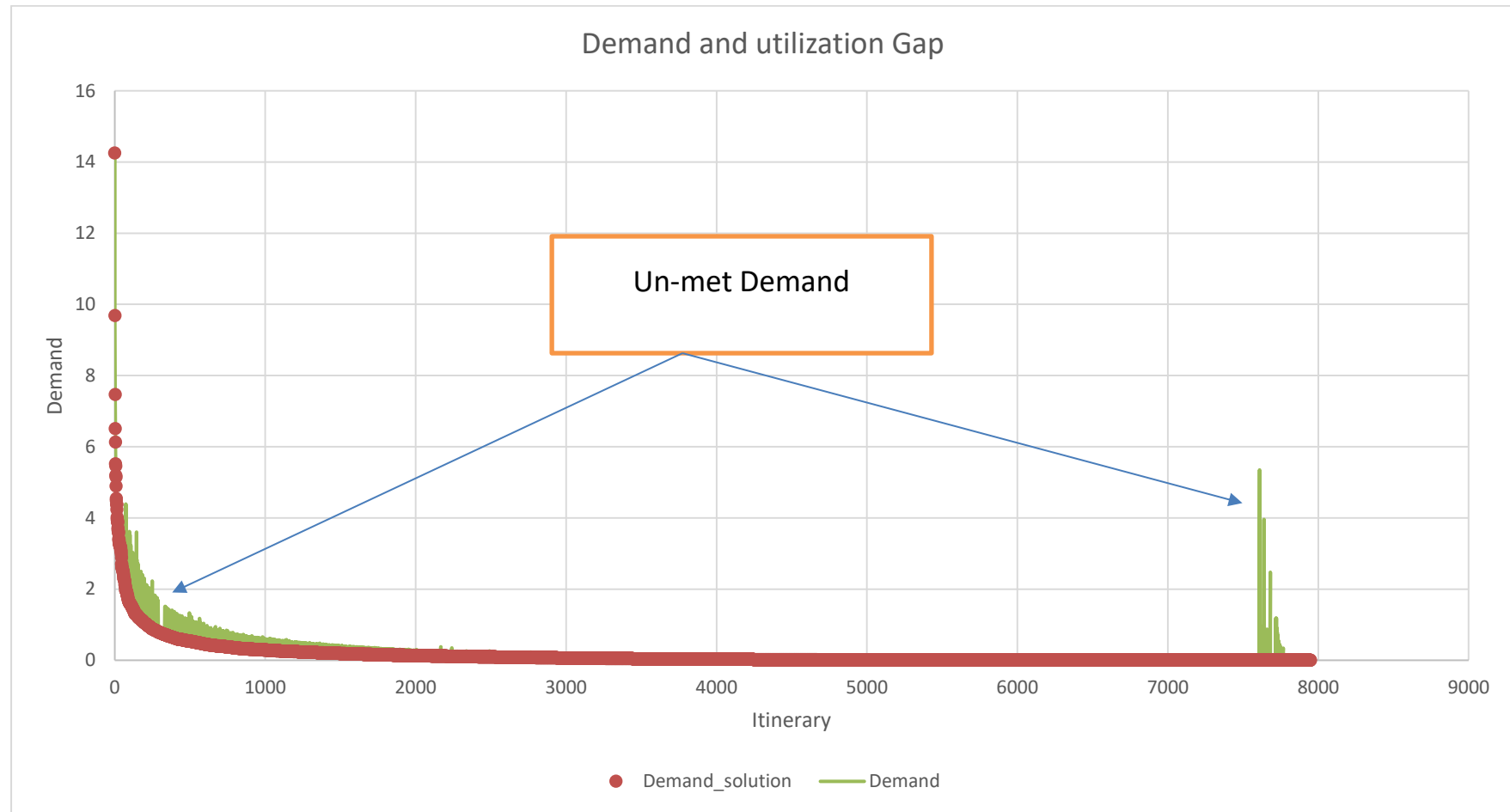


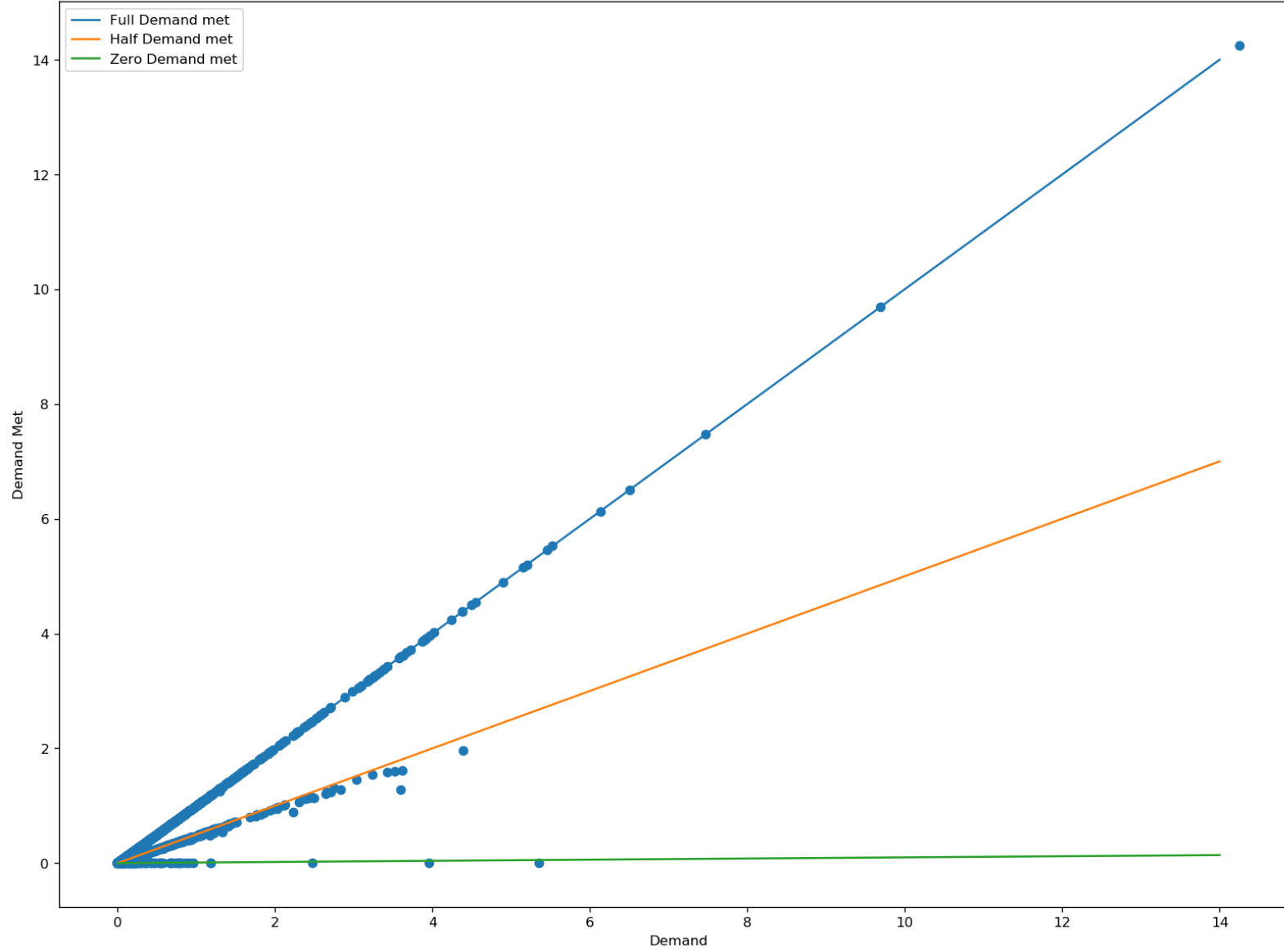
$$\text{Utilization Rate} = 100 - ([\text{Full capacity} - \text{Running capacity}] / \text{Full capacity}) * 100$$



Distribution of Demand and Optimized proportion of demand



Actual Demand vs Demand met

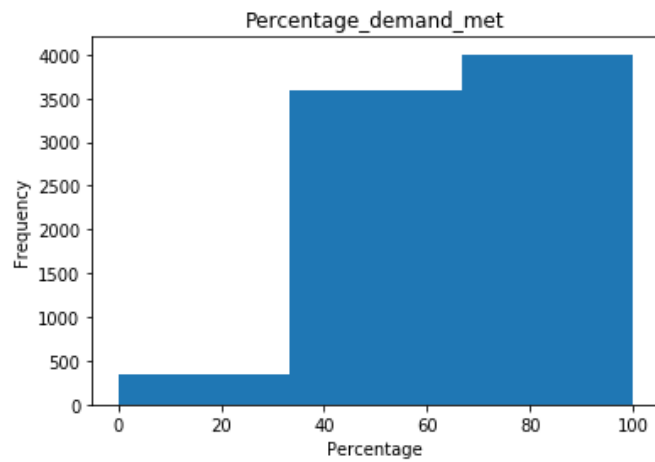


Results:

Top 5 Utilization Results

	Flight	Full_capacity	Running_capacity	Utilization Rate
1	LX0006420020920ZRHMIAC	30.0	30.0	100.0
29	LX0048520020920LCY			
BSLC	9.0	9.0	100.0	
16	LX0024720020920KHIDXBC	77.0	73.93409	96.0182987012987
2	LX0006420020920ZRHMIAY	120.0	103.6078	86.33983333333333
27	LX0039820020920GCIZRHC	18.0	15.17677	84.31538888888889

Percentage Demand Met:



Summary:

- LX0006420020920ZRHMIAC , LX0048520020920LCYBSLC are running in full capacity
- Most of the Three flight itinerary demand are not fulfilled

Index	low	medium	high
one	101	2893	363
two	79	677	60
three	1	19	1

- We can reduce the number of flights in the third category of the itinerary since there are less demand.
- Nearly 342 Flights have been allotted 0 proportion of Demand (rounded of to 5)
- Distribution of the proportion of demand.

