

# Q1. Find the value of Dep\_delay & arr\_delay.

4M

Sum of dep\_delay

2M

Sum of arr\_delay

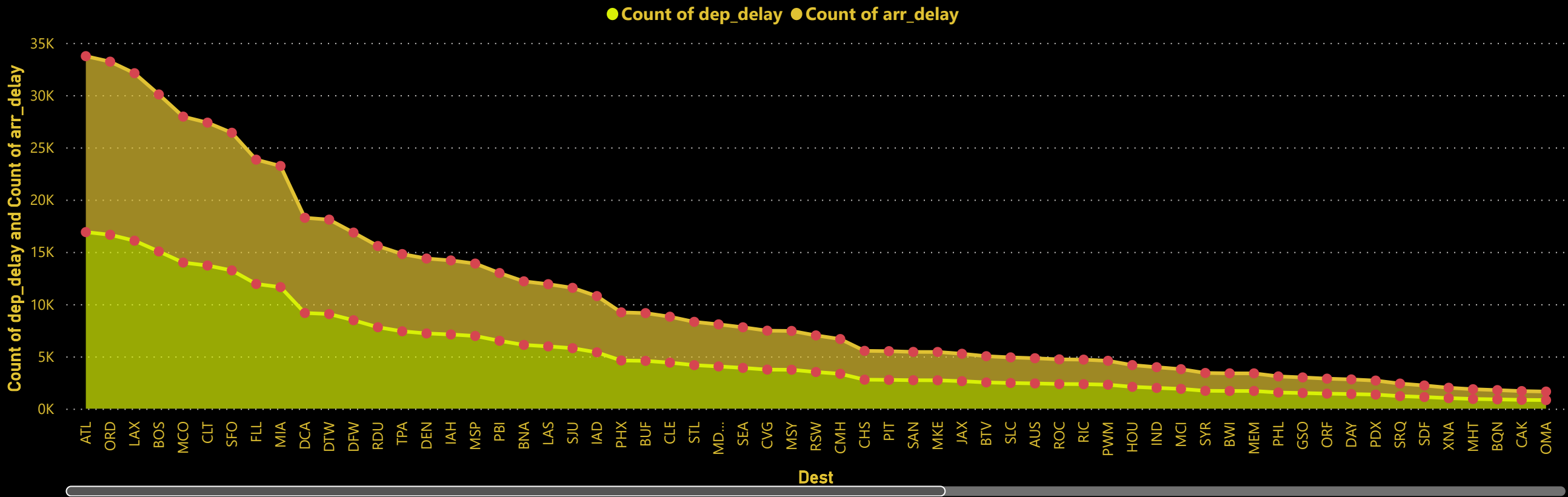
328.52K

Count of dep\_delay

327.35K

Count of arr\_delay

Count of dep\_delay and Count of arr\_delay by dest



In this page we are finding the value of the **Departure Delay** and **Arrival Delay**.

From the given dataset:

**Total sum of dep\_delay and total count of dep\_delay is 4M and 328.52K respectively.**

**Total sum of arr\_delay and total count of arr\_delay is 4M and 327.35K respectively.**

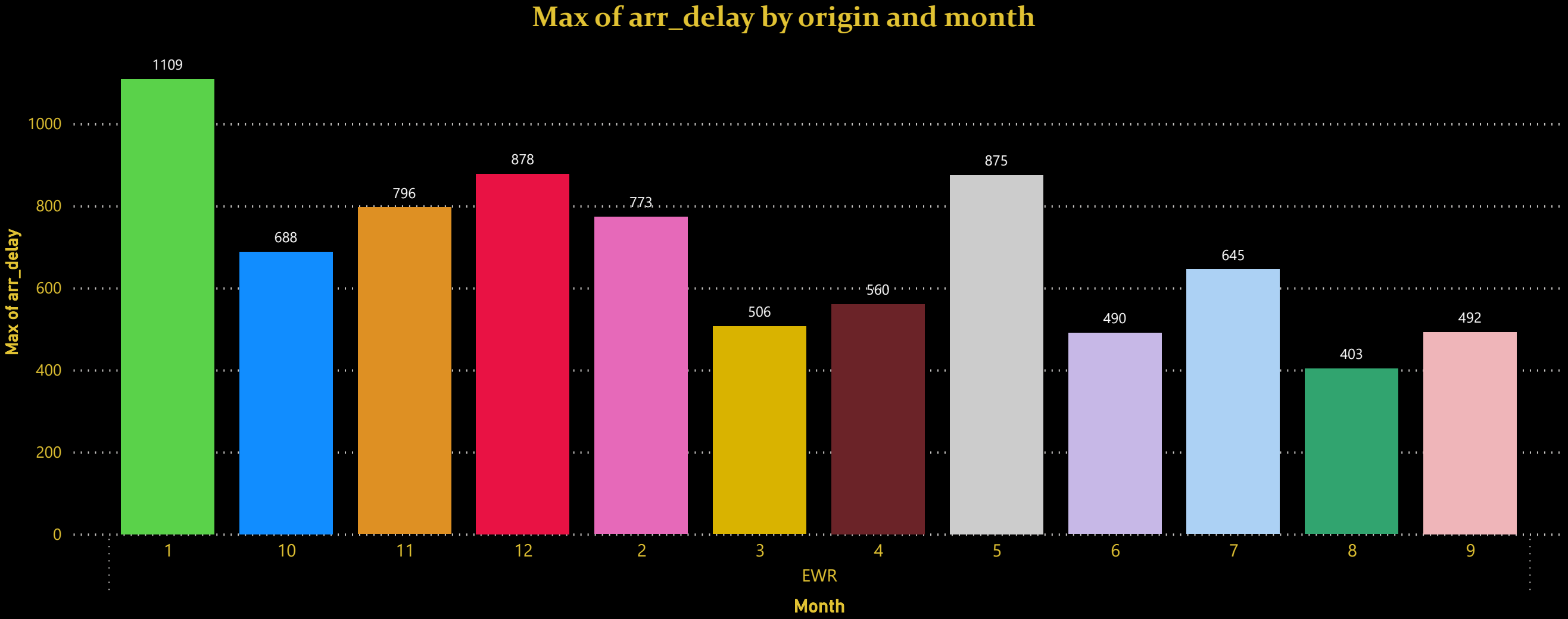
Graph is showing the destination wise data of count of dep\_delay and count of arr\_delay.

# Q2. Find the Maximum Arrival Delay in EWR Origin.

1109

Max of arr\_delay

month	origin	Max of arr_delay
1	EWR	1109
10	EWR	688
11	EWR	796
12	EWR	878
2	EWR	773
3	EWR	506
4	EWR	560
5	EWR	875
6	EWR	490
7	EWR	645
8	EWR	403
Total		1109



In this page we have seen the graph which is showing month wise maximum arrival delay in EWR Origin.

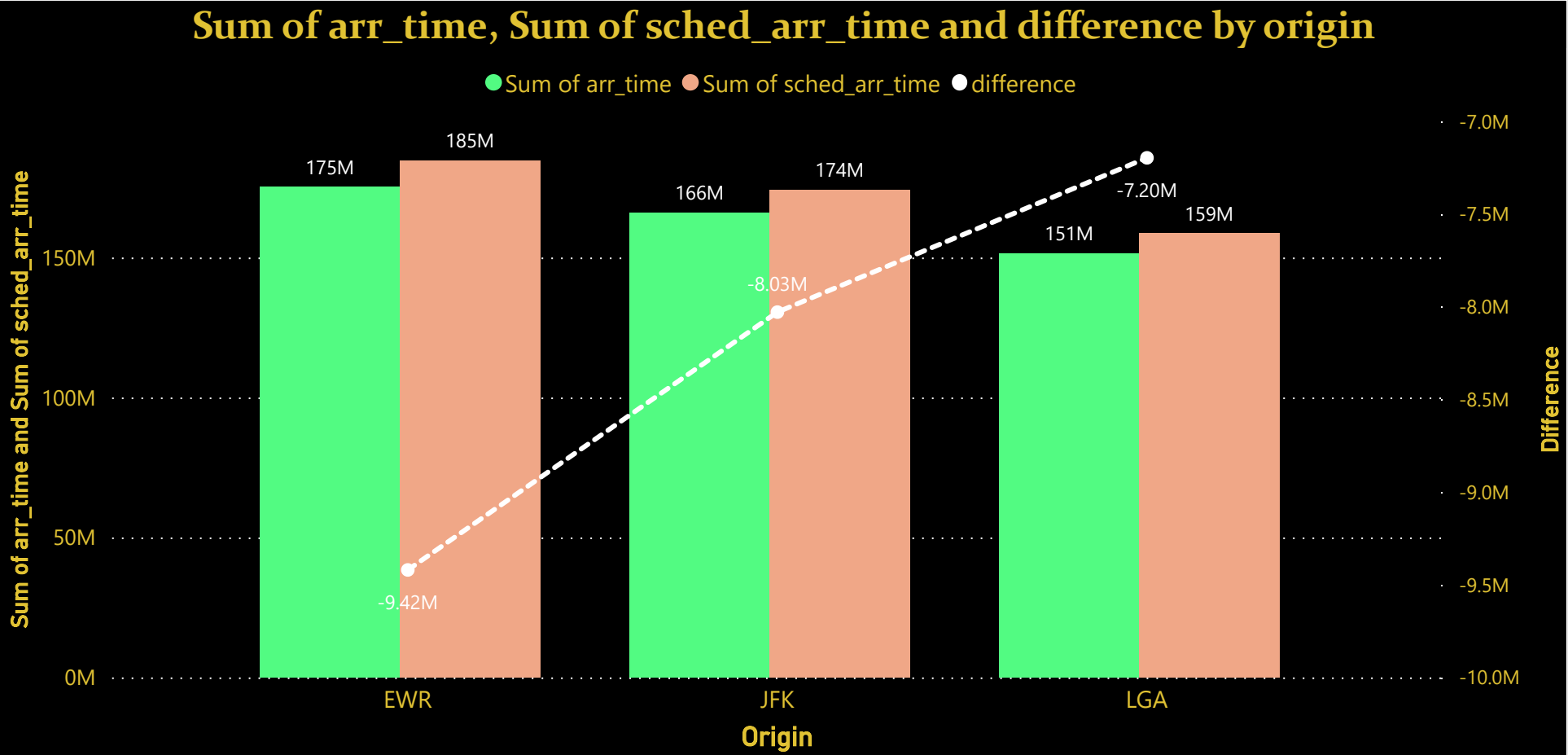
We got the **Maximum Arrival delay in EWR region is 1109** in Month no. 1.

### Q3. Show the Difference Between arr\_time & Sched\_arr\_Time,represented this visually.

EWR		
175213363	184633594	-9420231
Sum of arr_time	Sum of sched_arr_time	difference

JFK		
166119372	174148964	-8029592
Sum of arr_time	Sum of sched_arr_time	difference

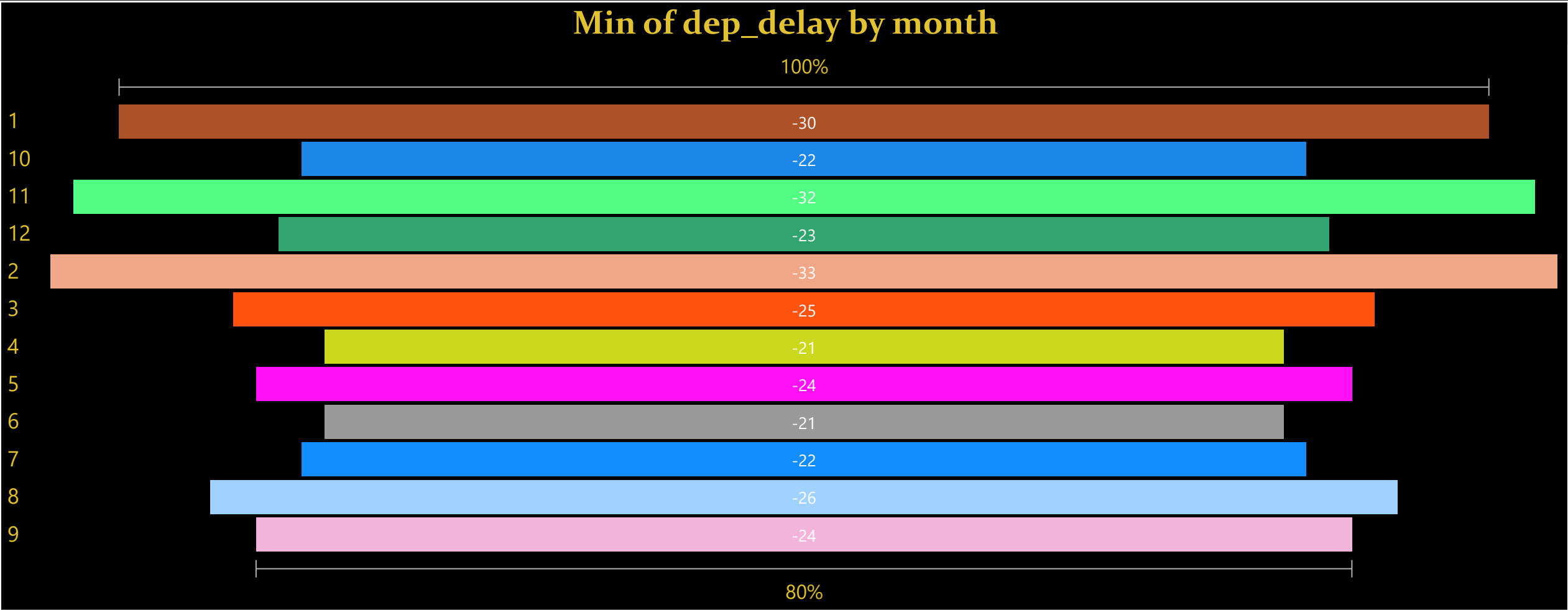
LGA		
151435934	158633427	-7197493
Sum of arr_time	Sum of sched_arr_time	difference



As per the question, In this page We will see the **difference between Arrival time and schedule arrival time(origin wise) in multi-row card.**

Here, I have plotted a **line and a clustered column chart** in which the **two bars** shows the **sum of arr\_time and sum of sched\_arr\_time** and the **line show the difference.**

# Q4. Find the Minimum Departure Delay in LGA Origin.



<div>-33</div> <div>Min of dep_delay</div>		
month	origin	Sum of dep_delay
1	LGA	43818
10	LGA	50612
11	LGA	41641
12	LGA	118250
2	LGA	49107
3	LGA	86031
4	LGA	96180
5	LGA	91433
6	LGA	158368
7	LGA	161022
8	LGA	98599
9	LGA	55240
Total		1050301

In this page we have seen the graph which is showing month wise minimum departure delay in LGA Origin.

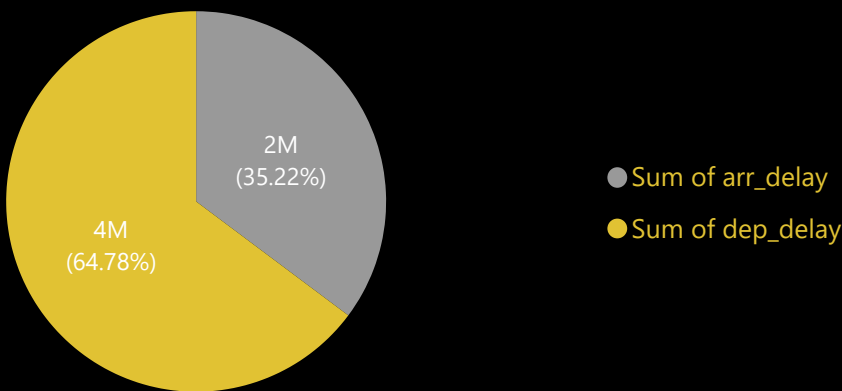
We got the **Minimum Departure delay in LGA region is -33** in Month no. 2.

# Q5. Find the Total Arrival & Departure Delay in JFK Origin.

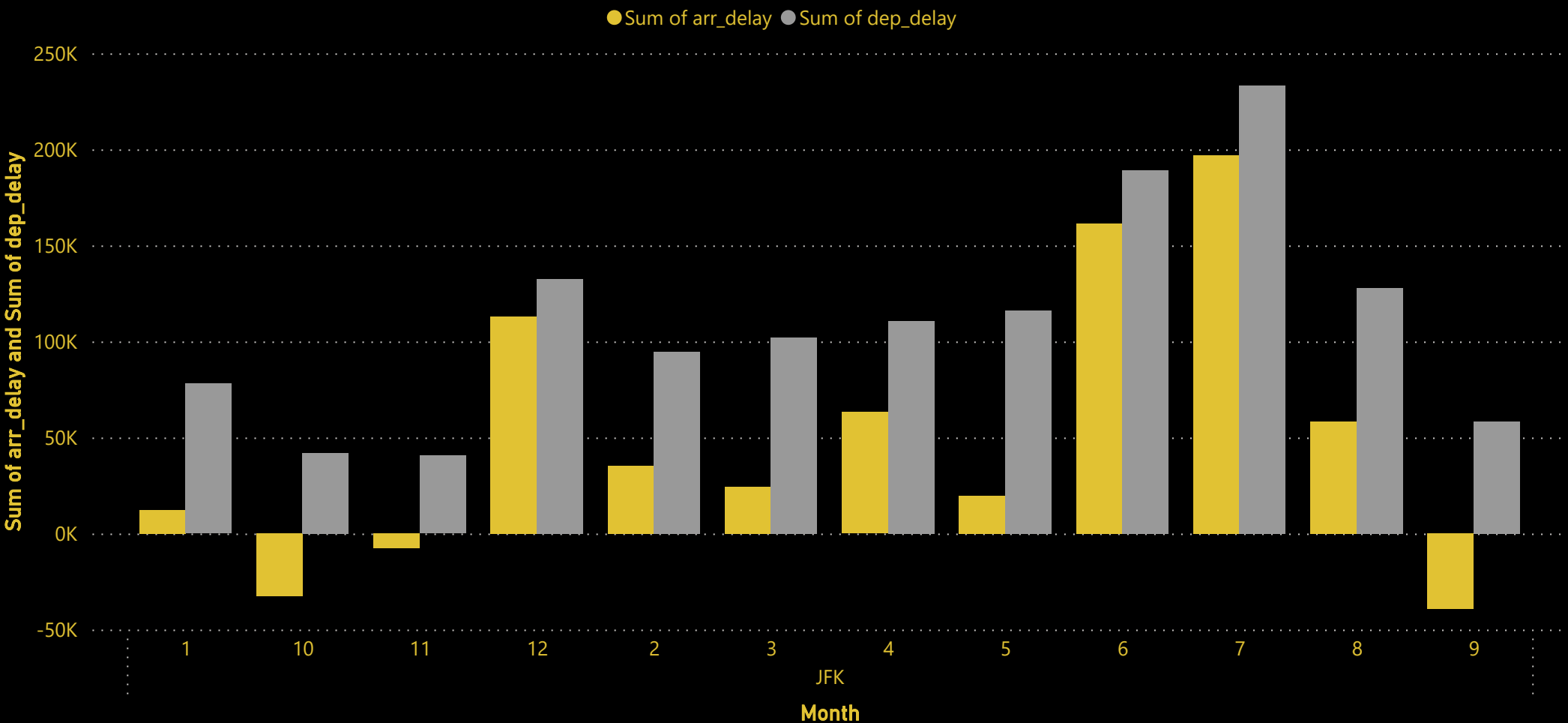
2M  
Sum of arr\_delay

4M  
Sum of dep\_delay

Sum of arr\_delay and Sum of dep\_delay



Sum of arr\_delay and Sum of dep\_delay by origin and month



In this question, we have to find the total arrival and departure delay in JFK region.

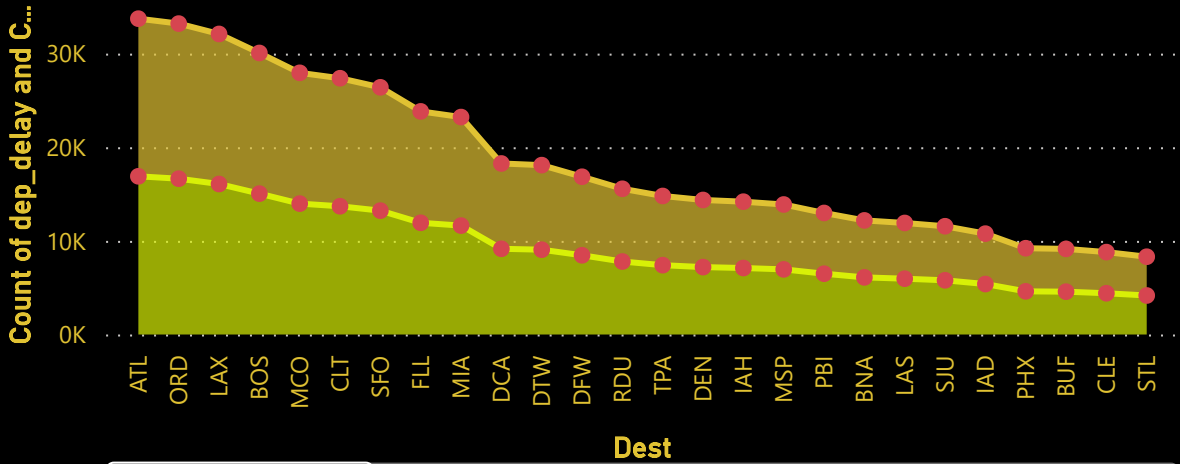
Here, we can see the **total sum of arrival delay(2M)** and **departure delay(4M)** with the help of cards.

We can also see the comparison between the total arrival and departure delay with help of pie chart and clustered column chart.

# NYC Flights Datasets

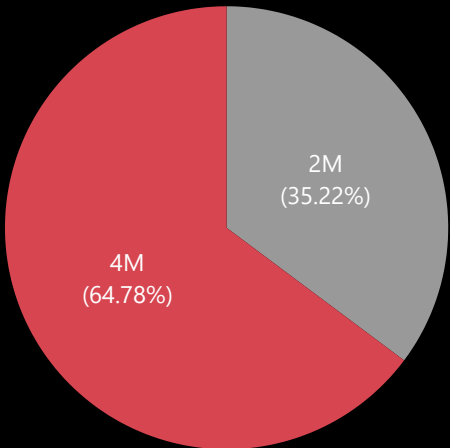
Count of dep\_delay and Count of arr\_delay by dest

● Count of dep\_delay ● Count of arr\_delay

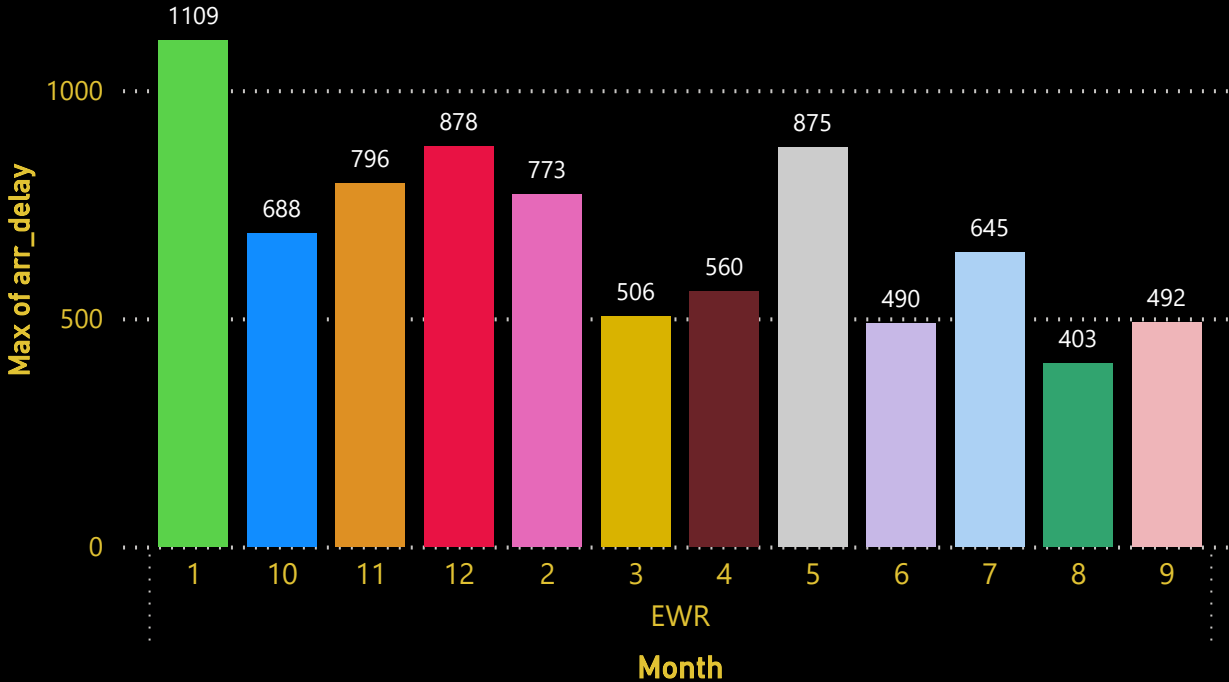


Sum of arr\_delay and Sum of dep\_delay

● Sum of arr\_delay ● Sum of dep\_delay

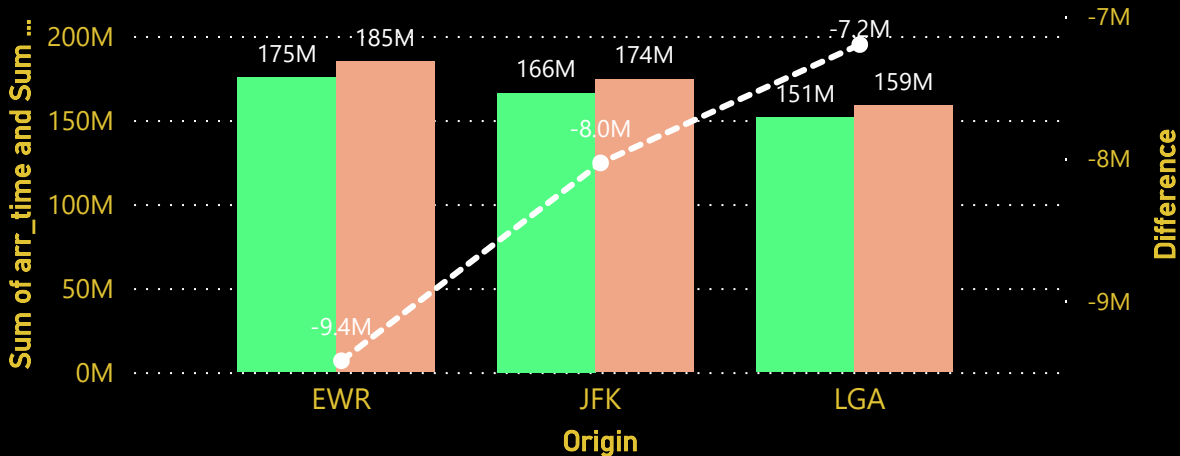


Max of arr\_delay by origin and month



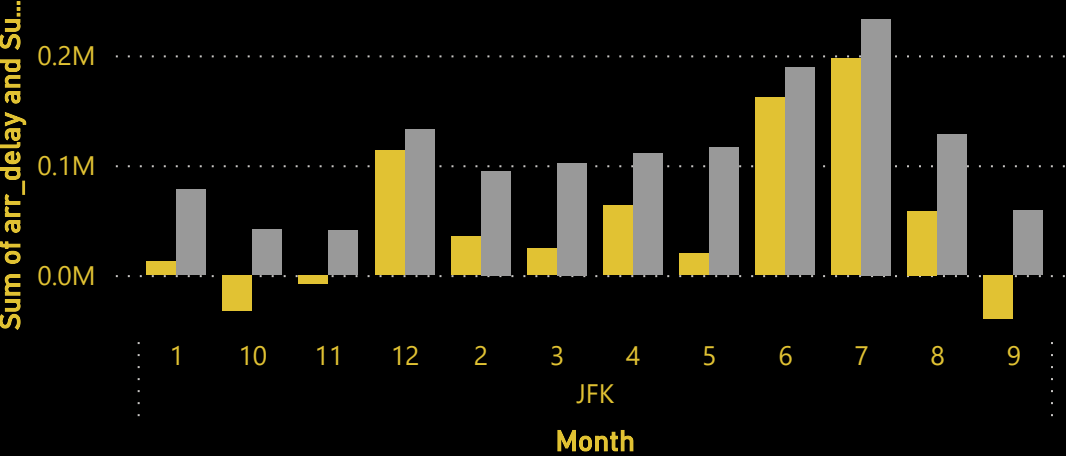
Sum of arr\_time, Sum of sched\_arr\_time and difference by origin

● Sum of arr\_time ● Sum of sched\_arr\_time ● difference

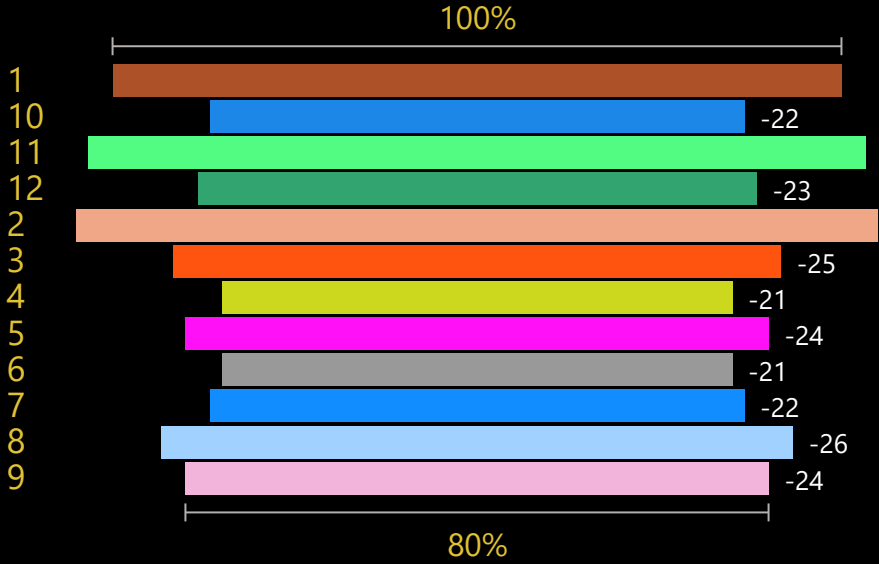


Sum of arr\_delay and Sum of dep\_delay by origin and month

● Sum of arr\_delay ● Sum of dep\_delay



Min of dep\_delay by month



# CONCLUSION

- .There are more number of flights which are departed late in comparison of arrival delay.
- .Most no. of arrival delay in the first month in EWR origin.
- .There is huge negative difference in the actual arrival time and scheduled arrival time of flights that means most of the times flights came before the time.
- .Least no. of departure delay in the second month in EWR origin.
- .In JFK origin, arrival delay(2M) & departure delay(4M) which means mostly Flight are not take off on time.
- .6th and 7th months are most affected by delays in JFK origin.