

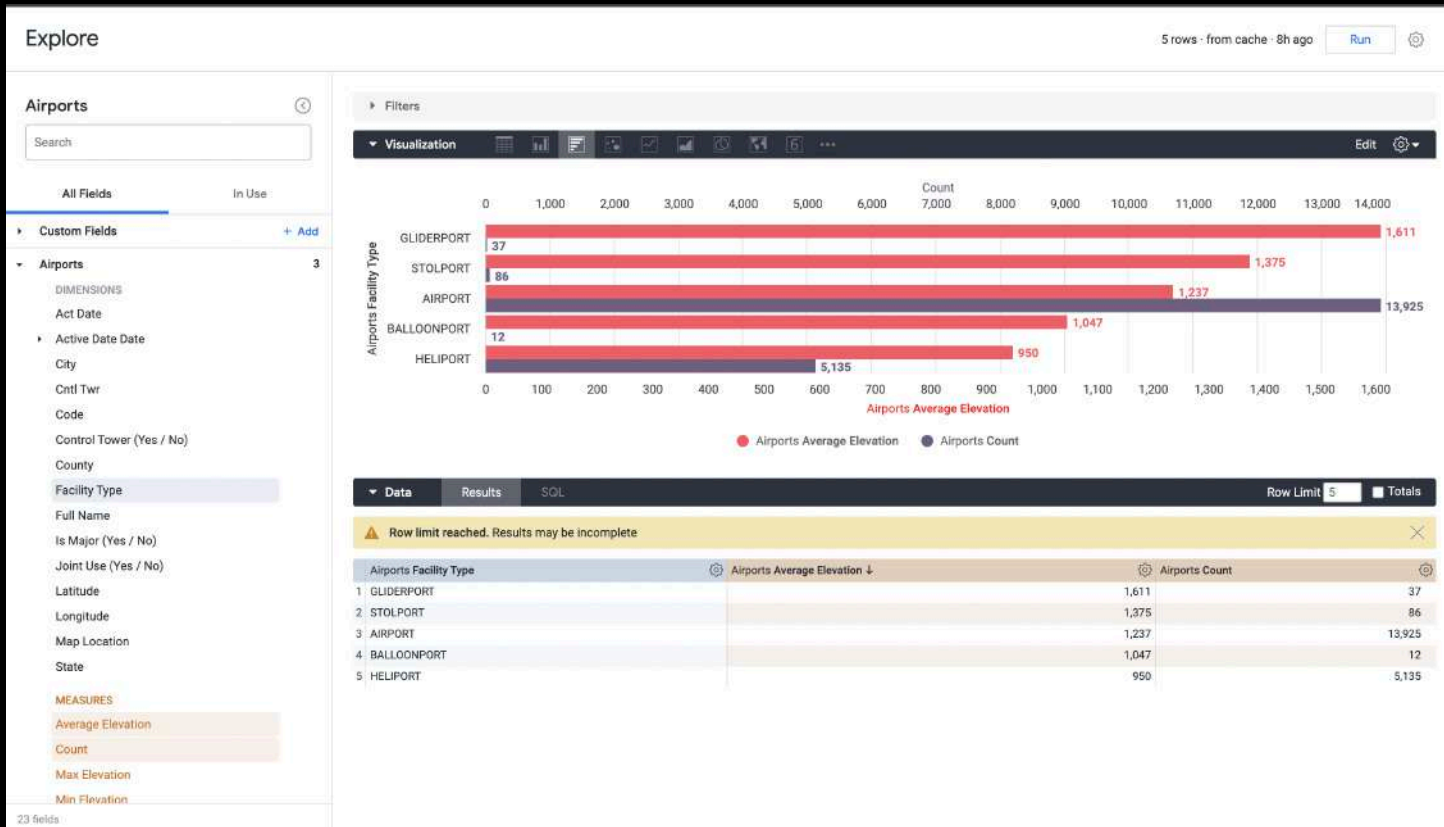
# Data Visualization

## Question 2:

Identify the top 5 Facility Types with the highest Average Elevation and display the results as a bar chart. See if you can also show the total number of airport facilities by Facility Type in the same chart!

Challenge 1: Add labels to the top of each bar that show the total bar value.

Challenge 2: Show each measure on a separate axis.

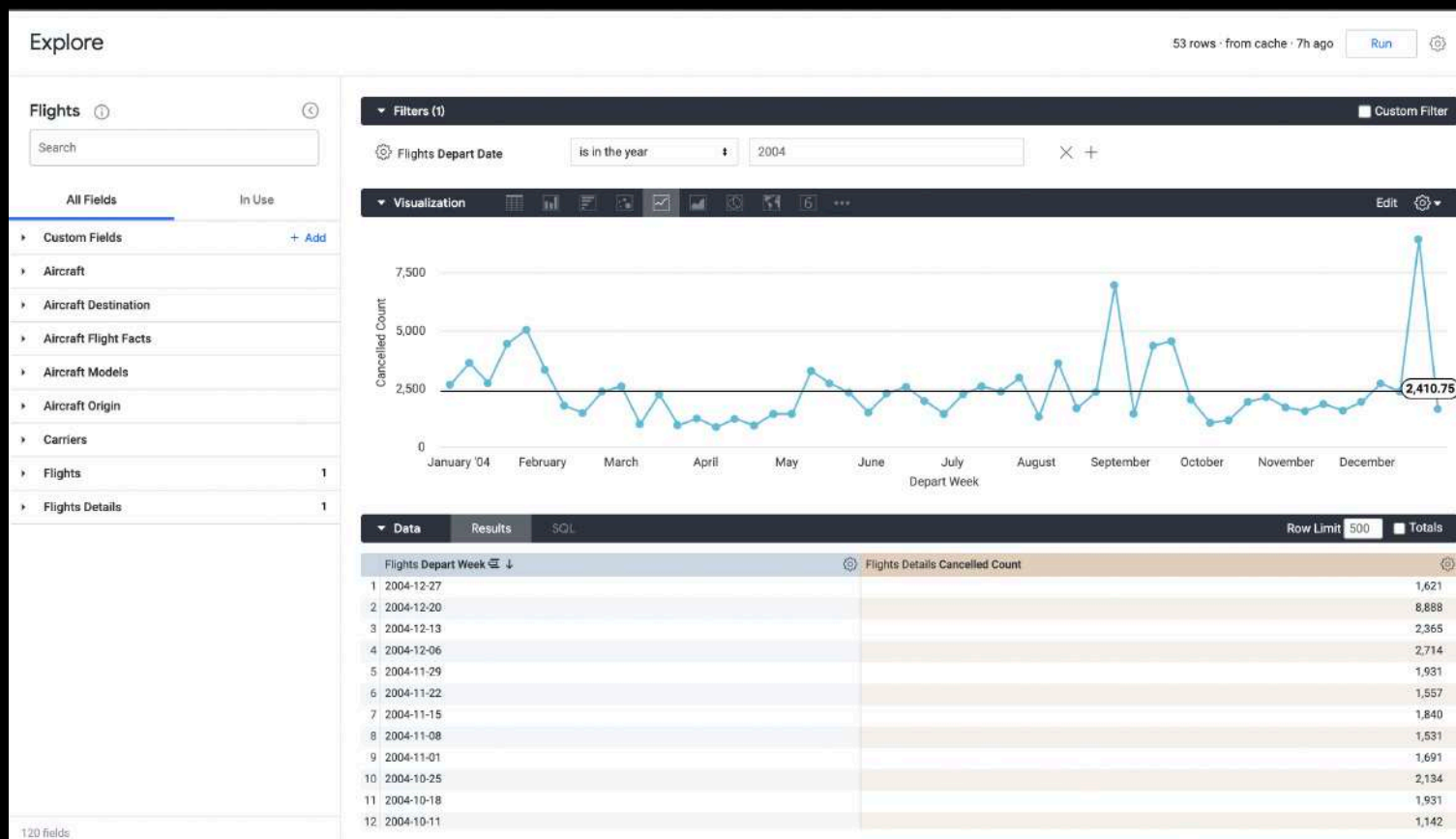


## Question 3:

Find the number of flights that were cancelled each week in the year 2004 and display the results as a line chart.

Challenge 1: Change the style of the data points within the line chart.

Challenge 2: Add in a reference line that shows the average number of cancelled flights across all weeks.



## Question 4:

Create a table visualization that shows the Count of Long Flights and the Total Distance flown by Carrier, but only for Carriers with a Percentage of Long Flights  $\leq 25\%$ .

Challenge 1: Change the table theme from White to Gray.

Challenge 2: Hide row numbers from the table visualization.

Explore 13 rows · from cache · 1h ago [Run](#) [Settings](#)

Flights [?](#)

Search

All Fields In Use

Flights Details

DIMENSIONS

- Arrival Date
- Arrival Delay
- Arrival Status
- Cancelled
- Carrier
- Destination
- Diverted
- Flight Num
- Flight Time
- Flight Time Tiered
- Origin
- Tail Num

MEASURES

- Cancelled Count
- Diverted Count
- Early Count
- Late Count
- Log Count Flights
- Not Cancelled Count
- Ontime Count
- V Late Count

120 fields

Filters (1)

Flights Percentage Long Flights is less than or equal to 0.25 [×](#) [+](#)

Visualization [Table](#) [Bar](#) [Line](#) [Map](#) [Gantt](#) [Treemap](#) [Sunburst](#) [6](#) [...](#) [Edit](#) [Settings](#)

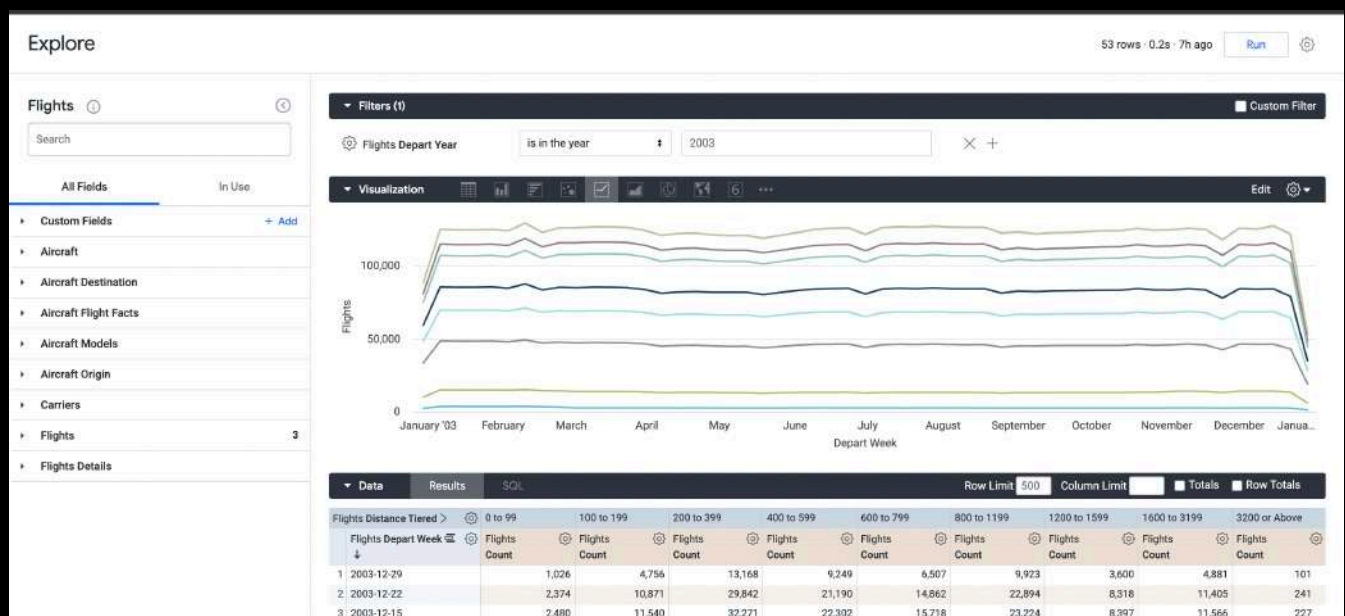
Carrier	Count Long Flight	Total Distance
DL	1,155,194	3,664,796,433
WN	776,313	3,234,195,727
US	479,938	2,096,458,739
AS	213,905	796,547,042
RU	90,536	562,503,035
FL	33,887	315,469,830
MQ	27,140	773,580,687
EV	23,183	367,922,977
HA	19,299	61,220,476
OH	13,029	346,784,364
OO	12,763	484,323,347
DH	3,509	259,761,057

Data Results SQL Row Limit 500 [Totals](#)

Flights Details Carrier	Flights Count Long Flight ↓	Flights Total Distance
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12 DH	3,509	259,761,057

Find the number of flights scheduled to depart in each week of the year 2003 by distance tier. Display the result as a line chart.

Challenge 2: Determine whether it is better to display this line chart as “overlay” or “stacked”.



It's better to display as the line chart as stacked than the overlay view because when overlaying line charts, it is easy to misinterpret as there are no cognitive clues to indicate that the line values are distinct.