Q. Comment on the benefits and limitations of the filtering options introduced in this task. What additional control mechanisms would you wish to have to improve the visualization of this dataset?

By filtering airports and flights by importance factor of airports and frequency of flights, the elements on the map can be reduced so that a user can more easily access details especially about the airports with higher importance factor the threshold and the flights with higher frequency than the filter value. However, this filtering feature is so limited because the filters are only based on the minimum values of importance factor of airports and frequency of flights. It only works well when a user wants to see the detail of the airports with high importance factor or the flights with high frequency. But there can be diverse queries that a user may want to check with the visualization, such as the information about the airports in specific state or region, the flights from specific state, airport, or region, the flights to specific state, airport, or region, the airports with low importance factors, the flights with low frequencies, the airports with the impact factors between two specific points, the flights with the frequencies between two specific points, or the flights between two specific states or regions.

For supporting these diverse queries, I will first add the additional circle symbol on sliders for setting the maximum values of importance factor or frequency of flights. And I will add a select element for choosing the direction of flights(from/to/both) that will be applied to the following city- or state-based filters. Then, I will add click event listeners to every airport and state so that only the flights from or to (as previous filter) the chosen city or state are represented. Also, the checkbox for marking whether the visualization will allow choosing the second city or state will be added. When the checkbox is checked, a user can select two different cities, a city and a state, or two different states. Lastly, I will add the brush so that a user can freely choose the airports.