Fatimah Alattas

outline of steps taken

- Three queries have been used to extract the required data which are:

```
select * from city_list;

select * from city_data where city ='Minneapolis';

select * from global_data;
```

- used excel as a tool to work on.

- The moving average has been calculated for each decade (10 years) using the average function; by calculating the average of the first 10 years then drag the same formula for the rest of the cells.

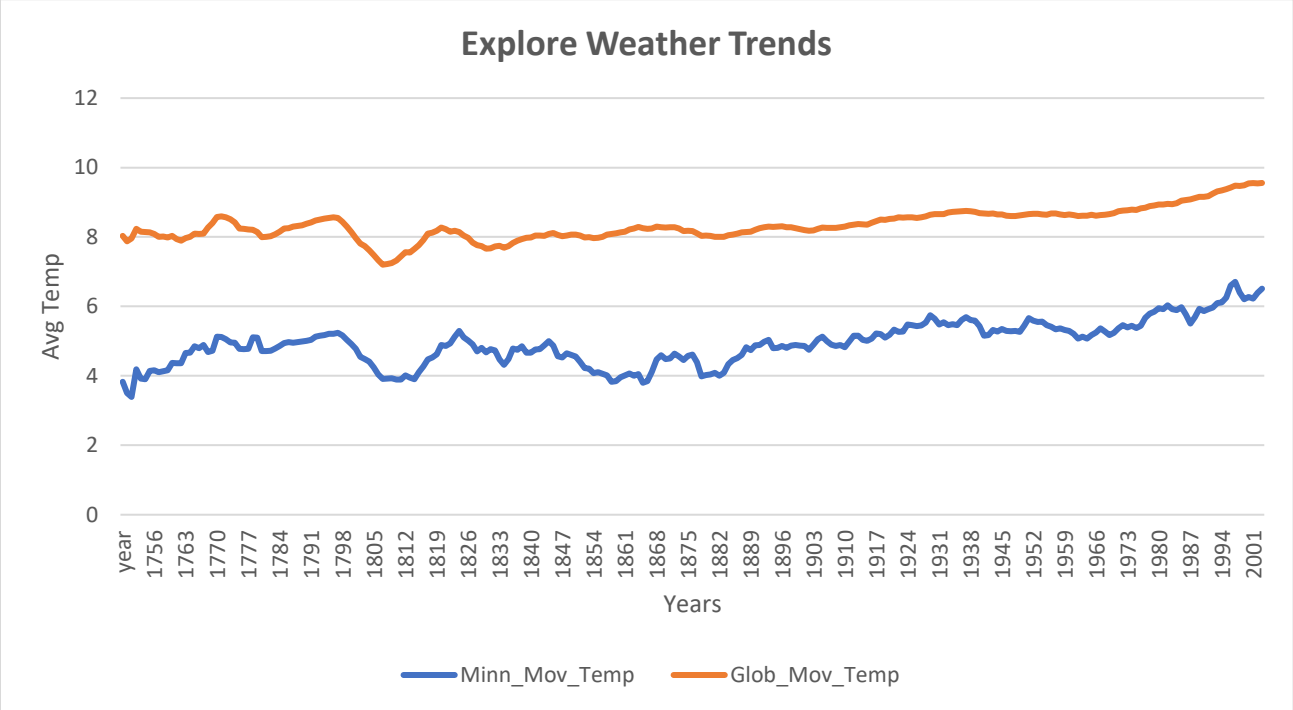
- The key considerations have been taken when deciding how to visualize the trends were:

1. Amount of data: has been decided based on the same first and last year.

2. Present them in the same chart.

3. Using the year as a horizontal variable to show the differences over the years.

Line chart



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Observations

Overall, the average temperature of Minneapolis is much cooler than the average temperature of the global world by nearly 4 to 6 and 8 to 9 Celsius degree respectively. However, both are getting hotter over the years. Additionally, there are two similar fluctuation among them between around 1784 and 1804 where the temperature goes up then down. Finally, the temperature's changes of the global world have happened more smoothly than in Minneapolis.