Data Preparation

What tools did you use for each step?

Excel

How did you calculate the moving average?

I was calculating the moving average by using the actual temperature of previous 10 years

What were your key considerations when deciding how to visualize the trends?

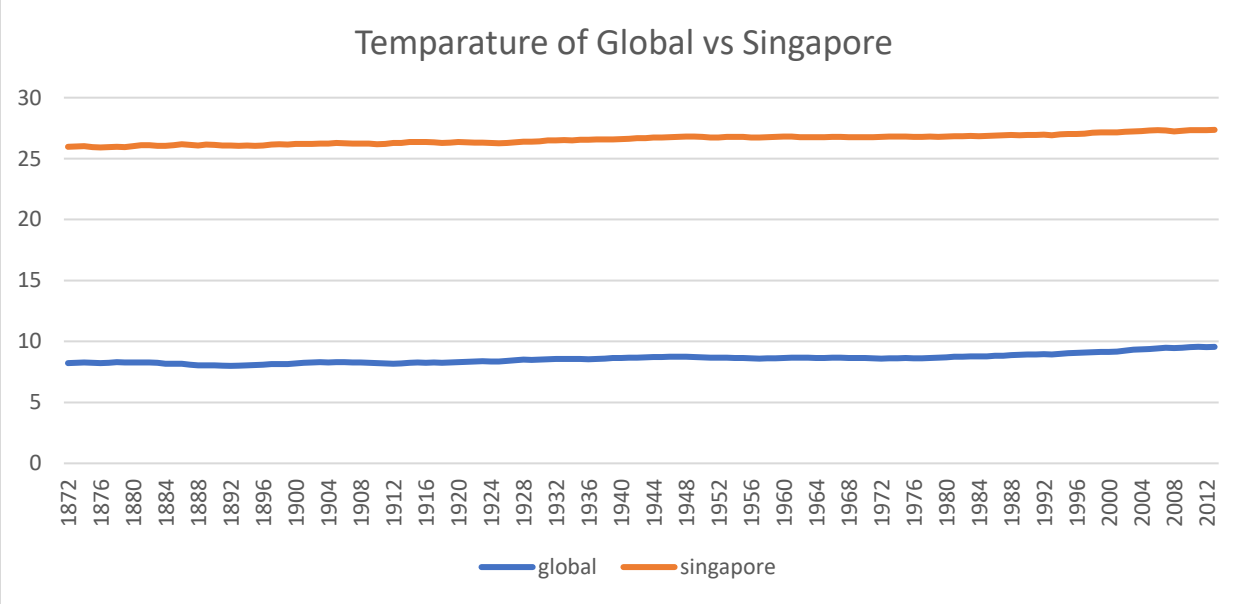
Firstly, I will check whether there is missing data in the dataset given. Then check whether the number of data is aligned (eg. Global data started from 1750, data of city I selected started from 1863)

SQL statement for extracting the data:

```
SELECT * FROM global_data;

SELECT * FROM city_data WHERE city LIKE 'Singapore';
```

Line Chart



Observations

- Singapore temperature is always higher than the global average since Singapore is located near the equatorial.
- For global temperature, there was slightly decrease from 1884 to 1892.
- For Singapore, the temperate was increasing slowly in the early year from 1872 to 1932, but after 1932, it started to speed up the increment

- Both of global and Singapore temperature had a gradient change from 1980 which increase the degree of temperature increasing
- Both of global and Singapore temperature were increasing in overall from 1872 to 2012.