PROJECT: EXPLORING WEATHER TRENDS

By: Nelda Limilimi

1. **What tools did you use for each step? (Python, SQL, Excel, etc.)**

a. SQL queries

```
--temp global data

select *

from global_data

;

--temp data for Kenya, nearest biggest city next to me

select *

from city_data

where country = 'Kenya'

;
```

b. Download CSV file and transform to MS Excel which I used to calculate the moving averages and charts

2. **How did you calculate the moving average?**

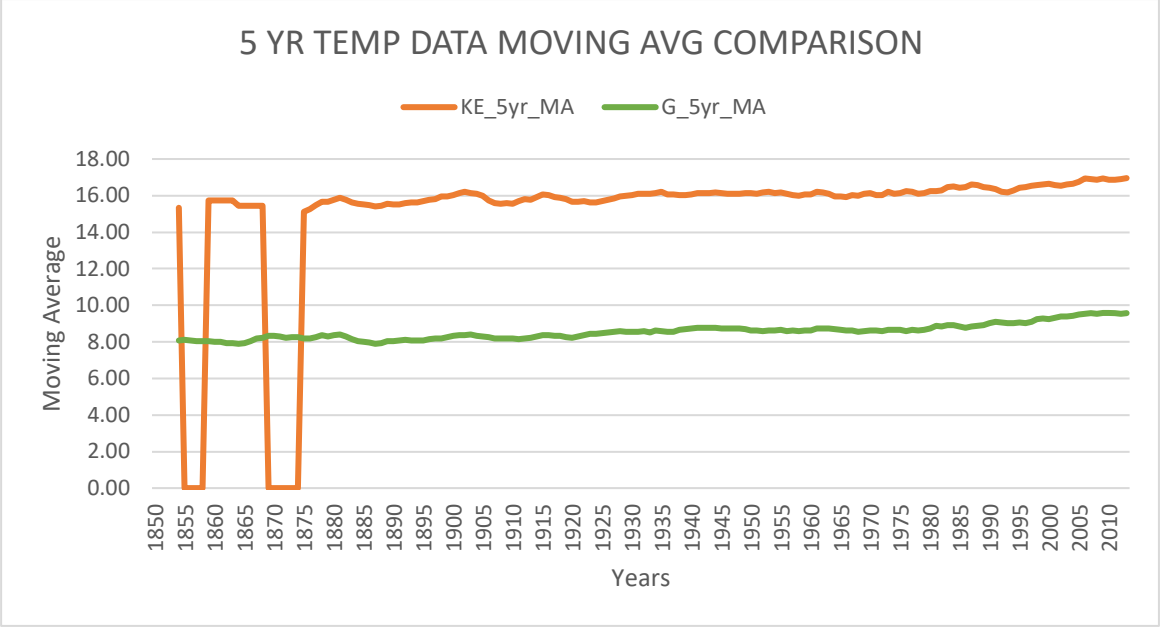
   Used the same example from the lesson, calculated 5,10 & 20-year moving average to see which one better smooths the data

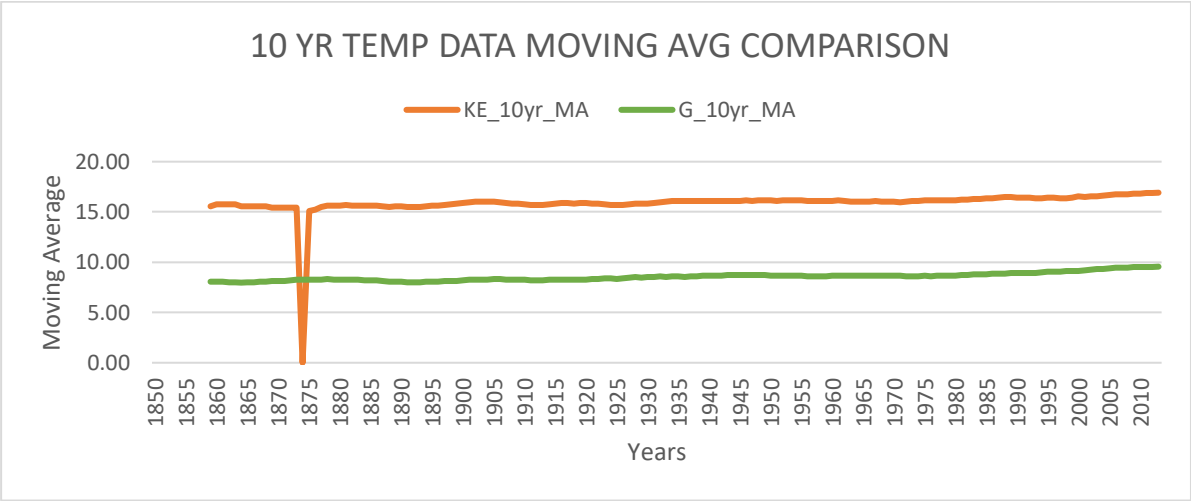
3. **What were your key considerations when deciding how to visualize the trends?**

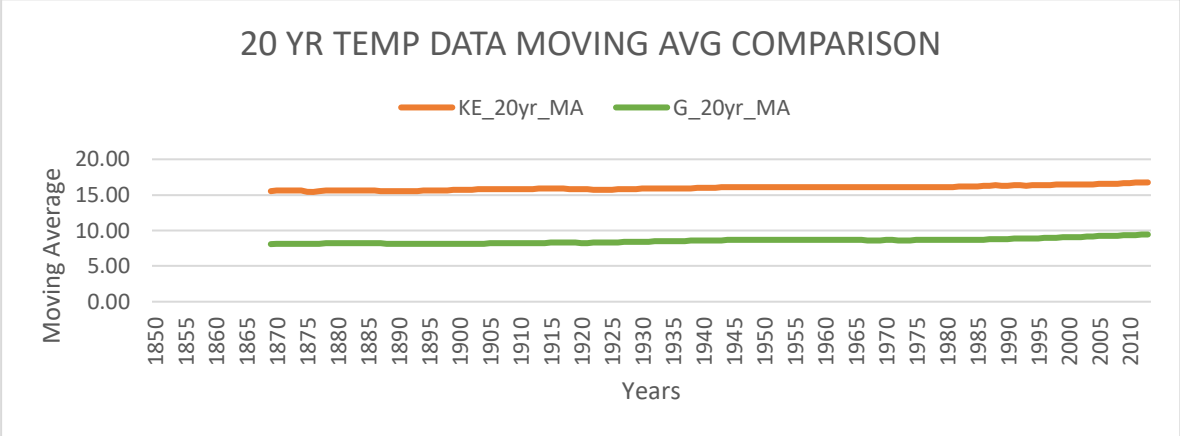
   - Considered starting years: KE data starts from 1850 – 2013 while global data starts from 1750 – 2015. For easy comparison, eliminated global data before 1850 and after 2013 hence similar years.

4. **Line Chart**

PS: KE: Represents Kenya in the charts while G represents Global







5. **Observations about similarities & differences in the trends**

- Both temperature levels are increasing steadily year after year

- Kenya is hotter than the global temperature
- Both temperature levels have small margin fluctuations over the years.
- Between 1870 & 1874 Kenya had the same moving average while the global average was changing