

WEATHER TRENDS ANALYSIS

➤ Procedure Followed :

1. Extract the Global Data using the following SQL Query:

- `SELECT *`
`FROM global_data;`

2. Extract the same data for “Ahmadabad” :

- `SELECT year, avg_temp`
`FROM city_data`
`WHERE city == 'Ahmadabad';`

3. Import the data extracted above into Excel for further manipulations.

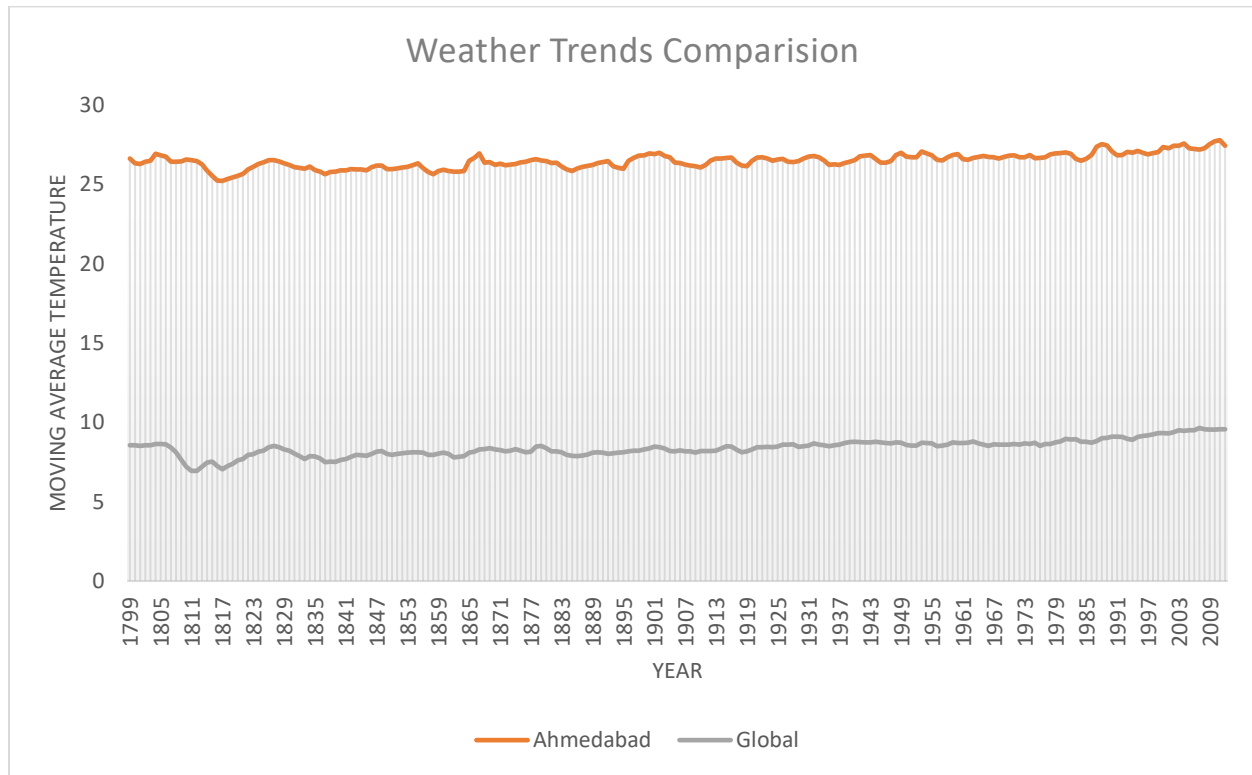
4. Fill up the missing values for data corresponding to “Ahmadabad”, by any data manipulation methodologies, like calculating average, calculating moving averages, etc.

5. Calculate the Moving Averages for the data corresponding to both Ahmedabad as well as Global. Sample formula :

- `=ROUNDDOWN(AVERAGE(B2:B4),2)`

6. Generate the required Line Chart, selecting the appropriate Data Range.

➤ Line Chart :



➤ Observations:

1. The overall Temperatures, both global as well as for Ahmedabad, seem to be increasing over time.
2. Ahmedabad has been comparatively hotter than the Global Average, throughout the time-period of the data.
3. Ahmedabad received a steep decrease in its Average temperature during around 1817 - 1823.
4. Global Average temperature decreased by a maximum difference during the period 1811 – 1823.

5. Ahmedabad Maxima-Minima :

- Min : 1818 -> 25.23
- Max : 2012 -> 27.8

6. Global Maxima-Minima :

- Min : 1813 -> 6.94
- Max : 2008 -> 9.65