**Project: Explore Weather Trends**

Goal: To create a visualization and prepare a write up describing the similarities and differences between global temperature trends and temperature trends in the closest big city to where you live.

Steps Taken:

1) Fetched the data for **Ranchi** (nearest big city) from the database using below sql query:

*select * from city_list*

*where country = 'India'*

*and city = 'Ranchi'*

*select * from city_data*

*where city = 'Ranchi'*

Saved the csv file into local and then converted the file into .xlsx format

2) Fetched global data from the database using below sql query:

*select * from global_data*

Saved the csv file into local and then converted the file into .xlsx format

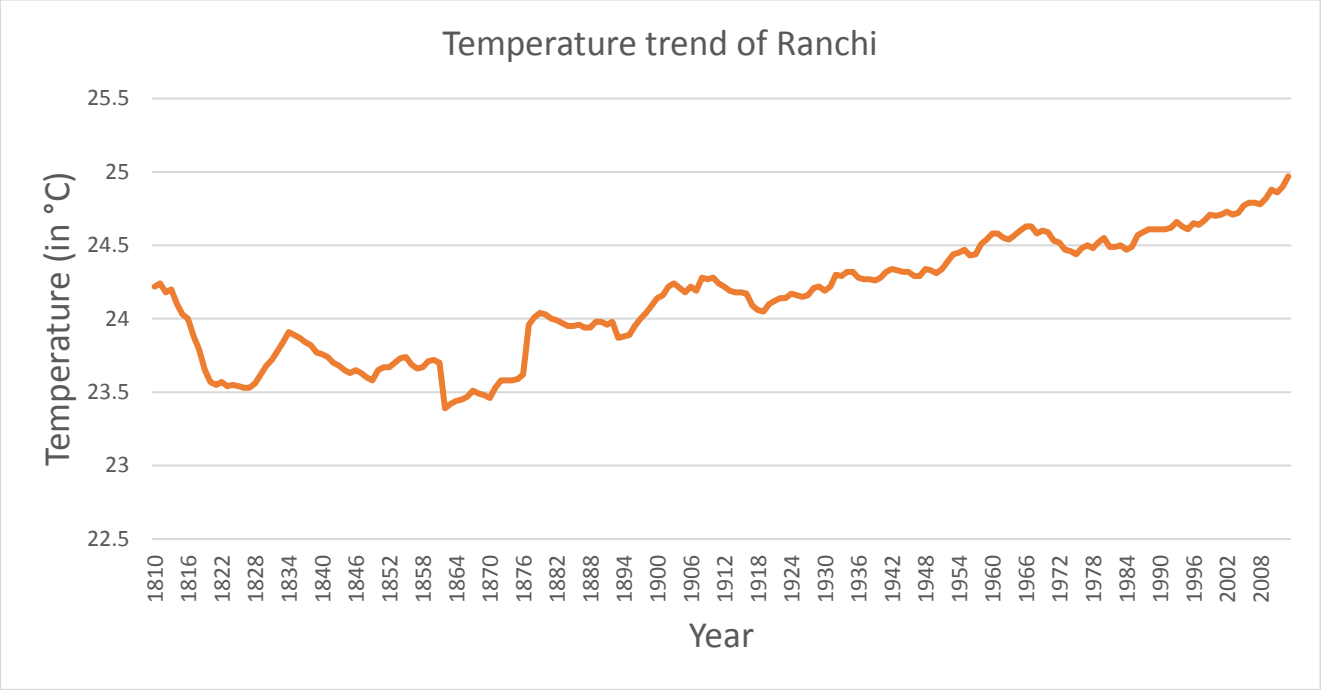
3) Merged whole data into a single excel sheet. Tool Used: Excel

4) As temperature moves are very less dynamic, I have taken 15 years moving average for chart preparation

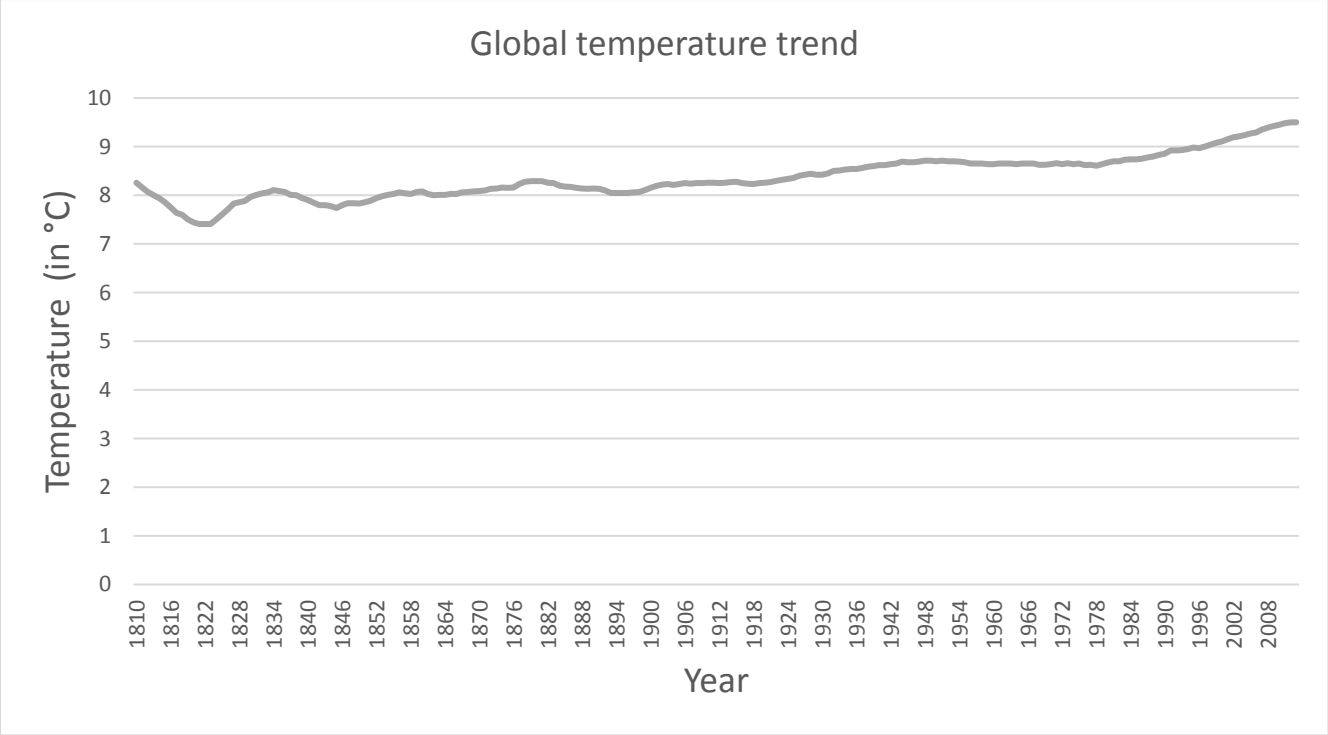
*=ROUND(AVERAGE(B2:B16),2)*

5) Some data points were missing from the local city data, which I derived using median of 10 previous year's data

Local Temperature Trend:




Global Temperature Trend:



Observations:

1) Local temperature fall had been more severe around 1817 in Ranchi than globally
2) Local temperature fall had been more severe around 1870 in Ranchi than globally
3) Global temperature as well as local temperature are rising over centuries
4) Global temperatures are rising more than my local city (for a period of 1810 – 2010)