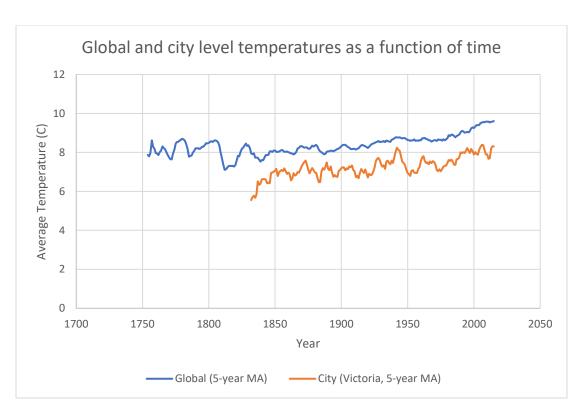
Assignment 1 – Local and Global Temperatures Over Time

Steps Taken

- 1. Query data using MySQL client.
 - a. Query available cities in Canada.
 - b. Choose a city in Canada which is somewhat close to Calgary (Victoria).
 - c. Query year and temperature data for Victoria
 - d. Query global year and temperature data.

```
1
       # City temp data
       SELECT year AS year_city,
 2 •
 3
              avg_temp AS avg_temp_city
         FROM temperatures.city data
 4
       WHERE city = 'Victoria'
 5
       ORDER BY year;
 6
 7
 8
       # Global temp data
       SELECT year AS year global,
 9 •
              avg_temp AS avg_temp_global
10
         FROM temperatures.global_data;
11
12
13
       # Relevant cities
       SELECT city
14 •
              FROM temperatures.city_list
15
       WHERE country = 'Canada';
16
```

- 2. Export data to excel files and combine into single excel spreadsheet.
- 3. Use Excel functions to calculate a 5-year moving average for global and city level temperature data in new columns.
- 4. Plot 5-year moving averages for global and city level in a graph.



Observations

- 1. Average global temperatures are consistently higher than Victoria city's temperatures.
- 2. Victoria city's temperatures are more volatile than global temperatures.
- 3. There is a distinct upward trend in global and Victoria city's temperatures over time starting around the year 1830.
- 4. The data suggests that global and Victoria city's temperatures are increasing at a similar rate.