

## Project: Explore Weather Trends

### Downloading the Data

The first step of this project was to download the required three tables to begin with. These tables were *city\_list*, *city\_data* and *global\_data*. The SQL used for these where:

```
select *  
from city_list;
```

```
select *  
from city_data;
```

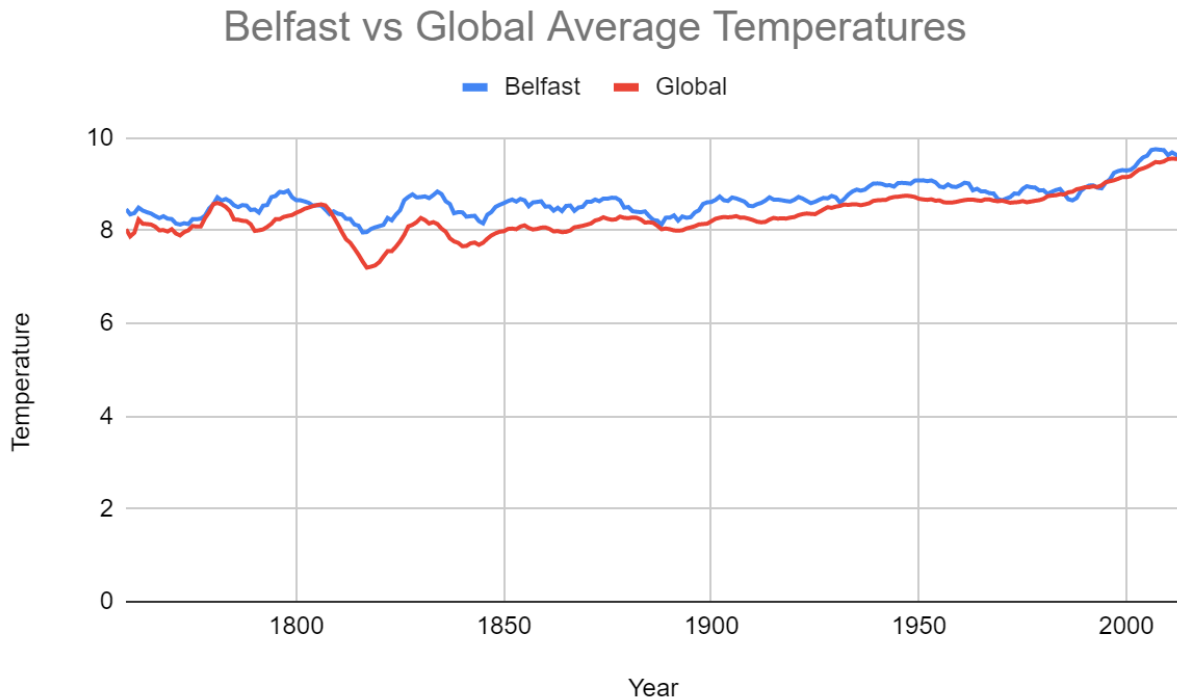
```
select *  
from global_data;
```

### Outline

Once I had downloaded the data I took the following steps:

1. I looked through the list of city names and chose *Belfast* as it is the closest on the list to where I live.
2. After this I copied the list of global temperatures from onto a separate tab onto the main spreadsheet I would be working from.
3. I then calculated a moving average for both the City Temperatures and the Global Temperatures to help smooth out the lines. At first I chose a 5 Year Moving Average but then changed it to a 10 Year Moving Average to smooth out the lines of the graph a little more.
4. When it came to shaping the data for use in the line graph I had to make sure the averages didn't cover too large a period so that it would no longer tell an accurate picture whilst still smoothing out the trend as the moving average is supposed to.

## Line Chart



## Observations

- On average the temperatures in Belfast tend towards being hotter than the global.
- There seems to be an overall trend towards a rise in the temperature, although we see some dips, there has been a general rise. This rise appears to begin most noticeably from 1900 onwards.
- Temperatures in Belfast, like those globally, have also been rising.
- There was only one point where, according to the *Moving Average*, that the City's temperature dipped by more than 0.1 below that of the Global temperature. This was during 1986 - 1988.