

Project 1: Exploring Weather Trends

Steps taken to prepare the data:-

I used Excel to represent the data and visualise it, and I calculated the moving average to a specific year by summing the last 7 years and dividing it over 7. The key consideration for me when visualising the data is to match the years between the two data sets because they start at different years and also ends at different years too.

Observations:-

The city of Riyadh has a higher average temperature than the global average temperature.

We can see that the average temperature is increasing in both lines and we can conclude from it that the earth is getting hotter.

we can also see there is a big difference in the first 10 years of Riyadh average temperature compare to next years. in Riyadh average temperature at the year 1992 it starts to get higher faster than before.

SQL commands:-

```
SELECT city From city_list WHERE city='Riyadh'; //check if my city exist in the database.  
SELECT avg_temp FROM city_data WHERE city='Riyadh'; //retrieve the average temperature for Riyadh.  
SELECT avg_temp FROM global_data; //retrieve the average temperature for Global.  
SELECT year FROM city_data; // to get years.  
SELECT year FROM global_data; //to get the global years
```



