

# Weather Trends

- Is your city hotter or cooler on average compared to the global average? Has the difference been consistent over time?

A) My city (Riyadh) average temperature is hotter than the average global temperature, yes, it's relatively consistent.

- "How do the changes in your city's temperatures over time compare to the changes in the global average?"

A) My city little bit fluctuating average temperatures than the global average temperatures.

- What does the overall trend look like? Is the world getting hotter or cooler? Has the trend been consistent over the last few hundred years?

A) The overall trend that's the world gets hotter. Yes, it is.

## Outlines:

- Extract the data from database in Udacity website by using SQL query.

The image shows two side-by-side screenshots of the Udacity SQL interface. Both screenshots show a successful SQL query execution with a 'Success!' message and an 'EVALUATE' button.

**Left Screenshot:** The SQL query is `select * from city_data where city = 'Riyadh'`. The output table has 171 results and the following columns: year, city, country, avg\_temp.

year	city	country	avg_temp
1843	Riyadh	Saudi Arabia	24.74
1844	Riyadh	Saudi Arabia	15.45
1845	Riyadh	Saudi Arabia	20.82
1846	Riyadh	Saudi Arabia	
1847	Riyadh	Saudi Arabia	
1848	Riyadh	Saudi Arabia	24.56
1849	Riyadh	Saudi Arabia	24.80
1850	Riyadh	Saudi Arabia	24.34

**Right Screenshot:** The SQL query is `select * from global_data where year >= 1843`. The output table has 173 results and the following columns: year, avg\_temp.

year	avg_temp
1843	8.17
1844	7.65
1845	7.85
1846	8.55
1847	8.09
1848	7.98
1849	7.98
1850	7.90

- Using excel
- Starting to calculate after first 7 days and continue to the end(7-dayMA).
- I had to use c Line Chart to visualize the trends.

Line Chart (Riyadh,Global)

