

## Global vs Bangkok, Thailand Weather Trends

*step to go:*

### 1 Use SQL to query data sets from 3 tables

- 1.1 Check the current living city with country name from 'city\_list'
- 1.2 Query all columns from 'city\_data' (for Bangkok data set) and 'global\_data' (for Global data set)
- 1.3 Download to local computer in csv file

Input

SCHEMA

city\_data

city\_list

city

country

global\_data

1 SELECT city

2 FROM city\_list

3 WHERE country = 'Thailand';

Check Thailand city if it accurate?

Yes, it's Bangkok my hometown

Success!

EVALUATE

Output 1 results

Download CSV

city

Bangkok

Input

SCHEMA

city\_data

city\_list

city

country

global\_data

1 SELECT \*

2 FROM global\_data;

Select all data from global\_data

Success!

EVALUATE

Output 266 results

Download CSV

year

avg\_temp

1750

8.72

Input

SCHEMA

city\_data

year

city

country

avg\_temp

1 SELECT \*

2 FROM city\_data

3 WHERE city = 'Bangkok';

Success!

EVALUATE

Output 198 results

Download CSV

year

city

country

avg\_temp

1816

Bangkok

Thailand

25.96

Select all data from city\_data

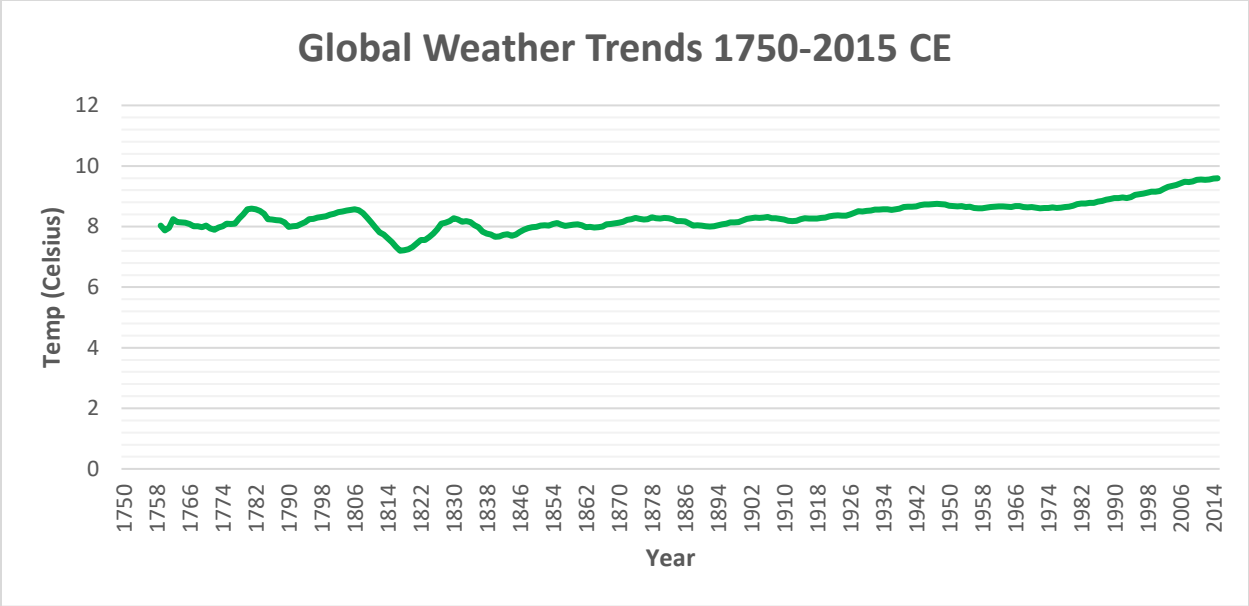
Filter only 'Bangkok' city

### 2 Use Excel to create Line Graph

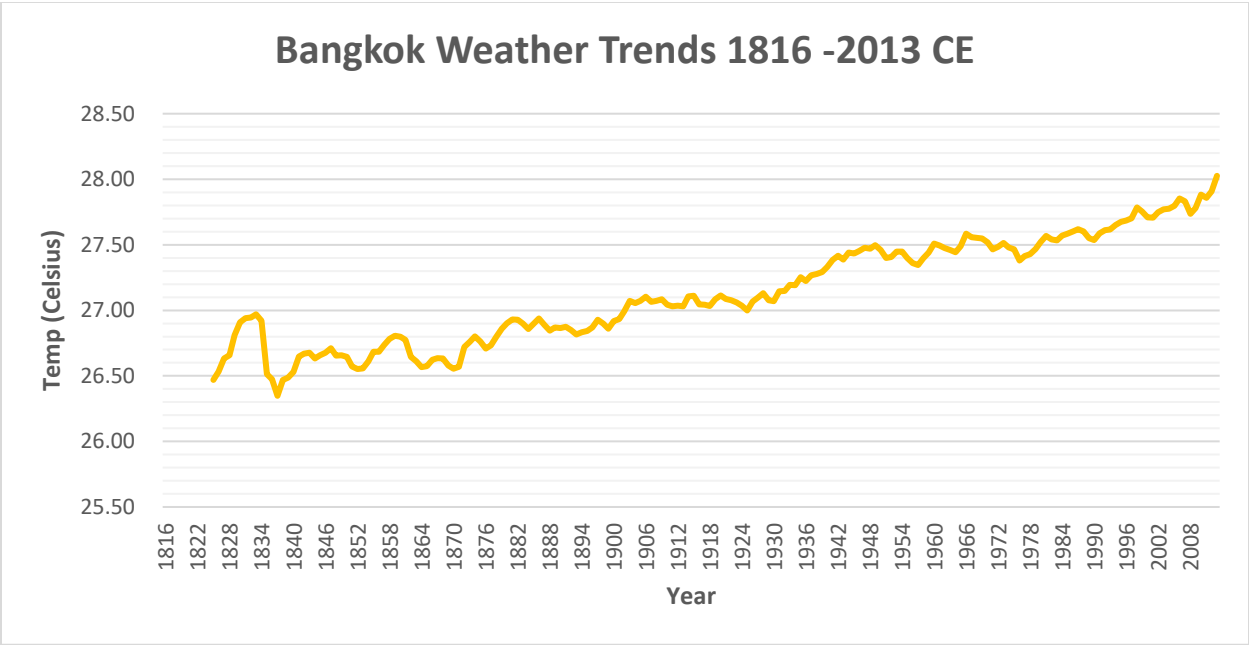
- 2.1 Calculate Moving average temperature for both Global and Bangkok by 10 years average
- 2.2 Using =AVERAGE(1st datapoint:10th datapoint)
- 2.3 Create 3 Line graphs (Global trend, Bangkok trend, Compare trend)

year	avg_temp	BKK 10 years moving avg	Global 10 years moving avg
1816	25.96		7.33
1817	25.83		7.20
1818	26.48		7.22
1819	25.9		7.25
1820	26.42		7.32
1821	26.81		7.45
1822	26.93		7.56
1823	26.78		7.56
1824			7.65
1825	27.11	26.47	7.77
1826		26.53	7.91
1827		26.63	8.09
1828		26.66	8.13
1829		26.81	8.18
1830		26.91	8.27
1831		26.94	8.23
1832		26.95	8.16
1833	26.83	26.97	8.18
1834	26.82	26.92	8.14

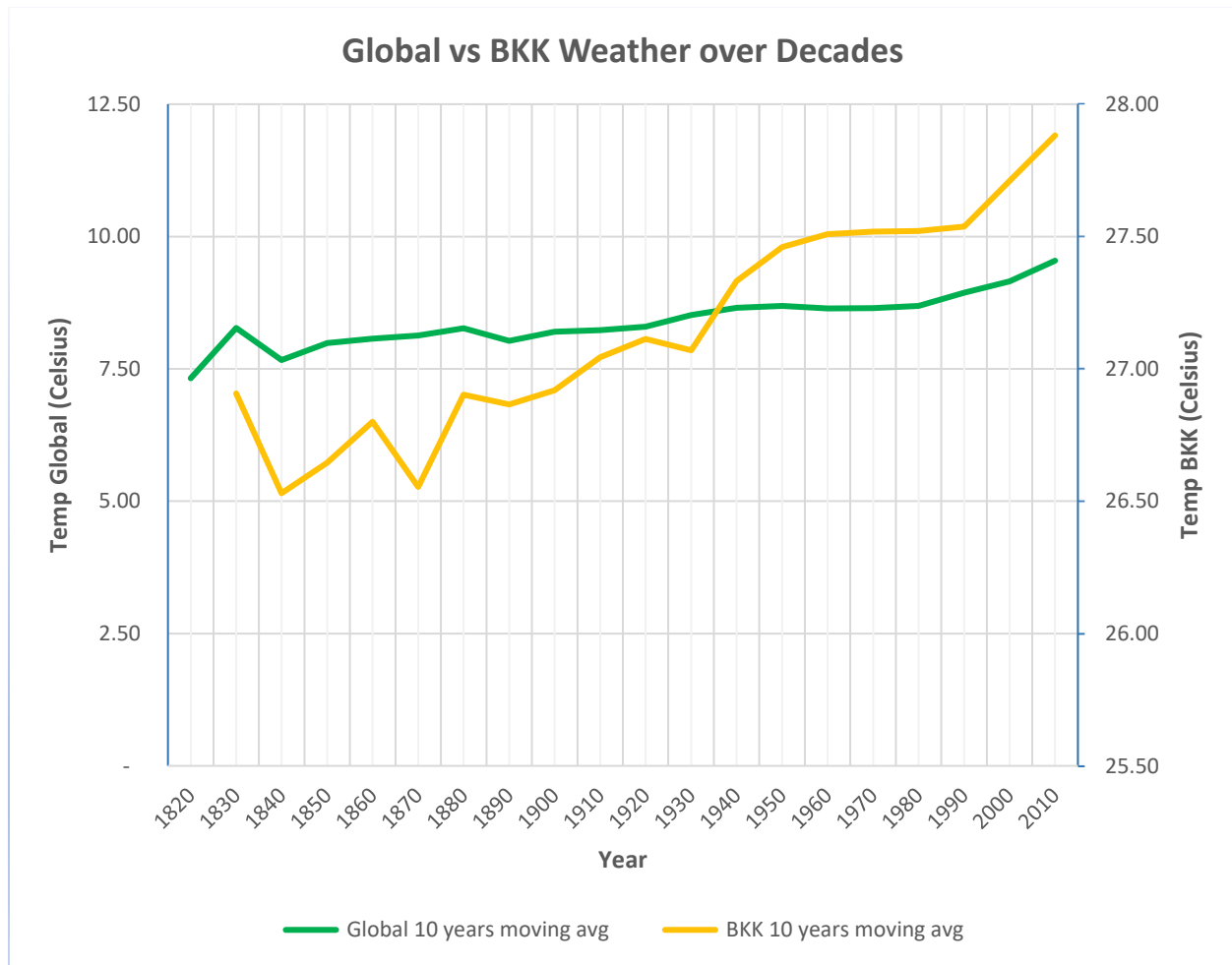
preview for moving average data in the table



Global Weather Trends



Bangkok Weather Trends



### Comparing Global vs Bangkok Weather Trends

#### *Observations:*

- 1 Both Global and Bangkok temperatures increase continuously
- 2 Bangkok average temperature after 1900 CE are tend to lift dramatically more than previous decades
- 3 Global average temperature is lower than Bangkok average temperature for all times
- 4 Global average temperature is going to meet 10 degree celsius soon that means for over 200 years, average temperature increase about 2 degree celsius
- 5 Global average temperature met the low peak point in year 1752 at 5.78 degree celcius
- 6 Bangkok average temperature met the low peak point in year 1862 at 25.37 degree celcius
- 7 Both Global and Bangkok temperatures have not met the high peak point yet  
if temperature are still level up at the current rate