

# **DATA ANALYST NANODEGREE PROGRAM**

## **PROJECT #1**

### **EXPLORE WEATHER TRENDS**

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## 1- Extract data from database

1- I checked weather Jordan-Amman where I live in by SQL Query:

```
SELECT *  
FROM city_list  
WHERE country LIKE 'Jordan'
```

And I got nothing, so I moved to search for country near from Jordan like Syria by SQL Query:

```
SELECT *  
FROM city_list  
WHERE country LIKE 'Syria'
```

2- I extracted the data for Syria by SQL Query:

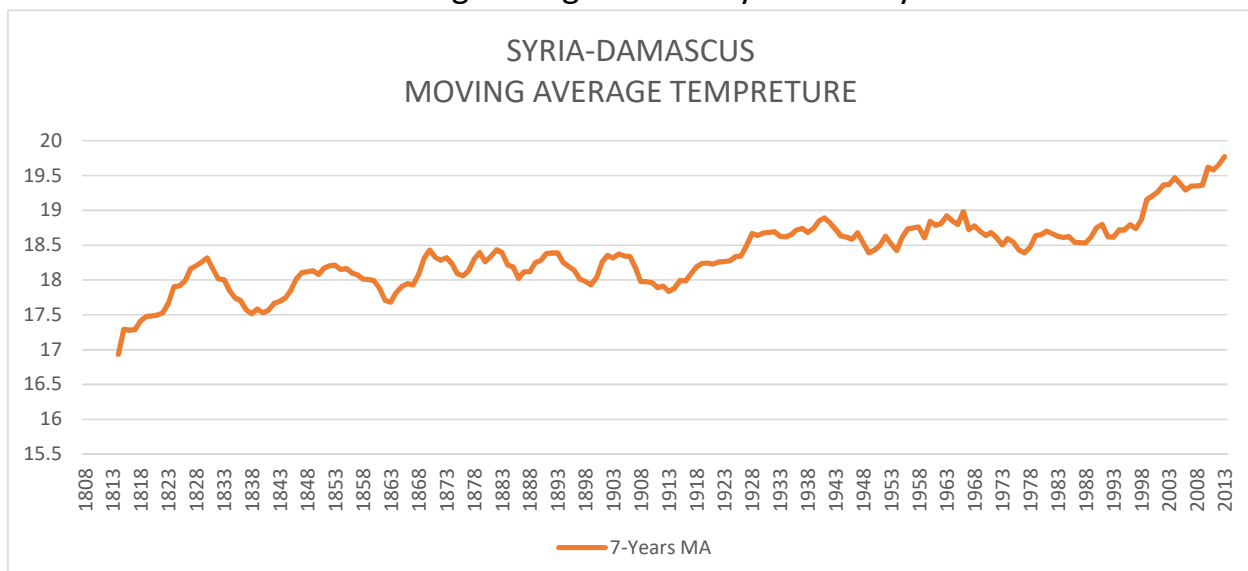
```
SELECT avg_temp,year  
FROM city_data  
WHERE country LIKE 'Syria'
```

3- I extracted the data for global between years (1808-2013) as city\_data:

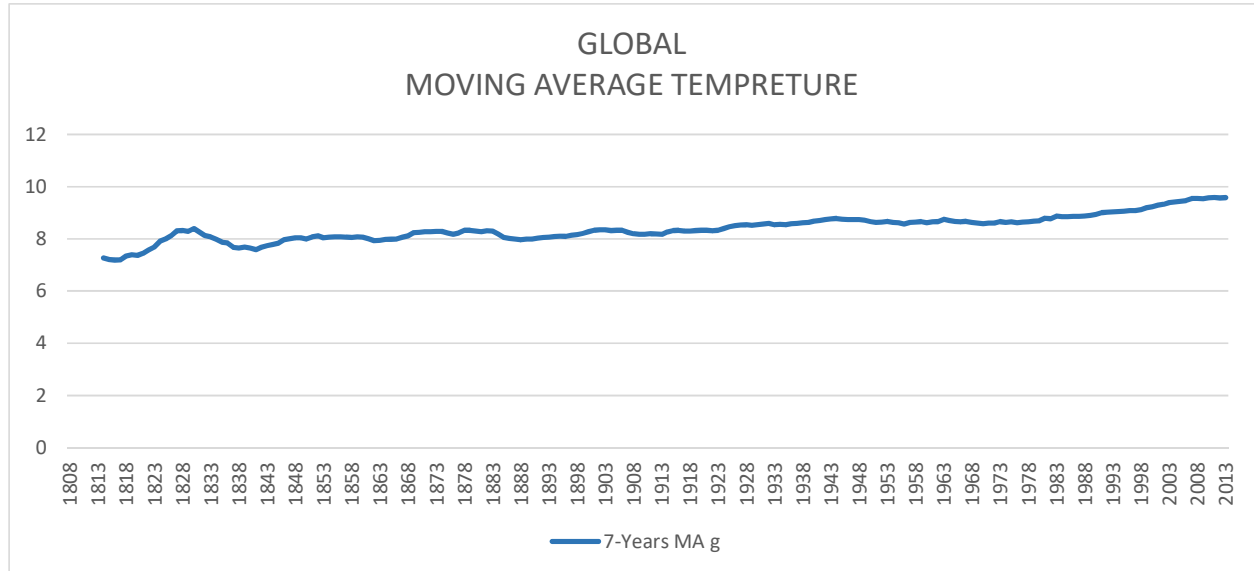
```
SELECT *  
FROM global_data  
WHERE year BETWEEN 1808 AND 2013
```

## 2- Create Line Chart with Excel

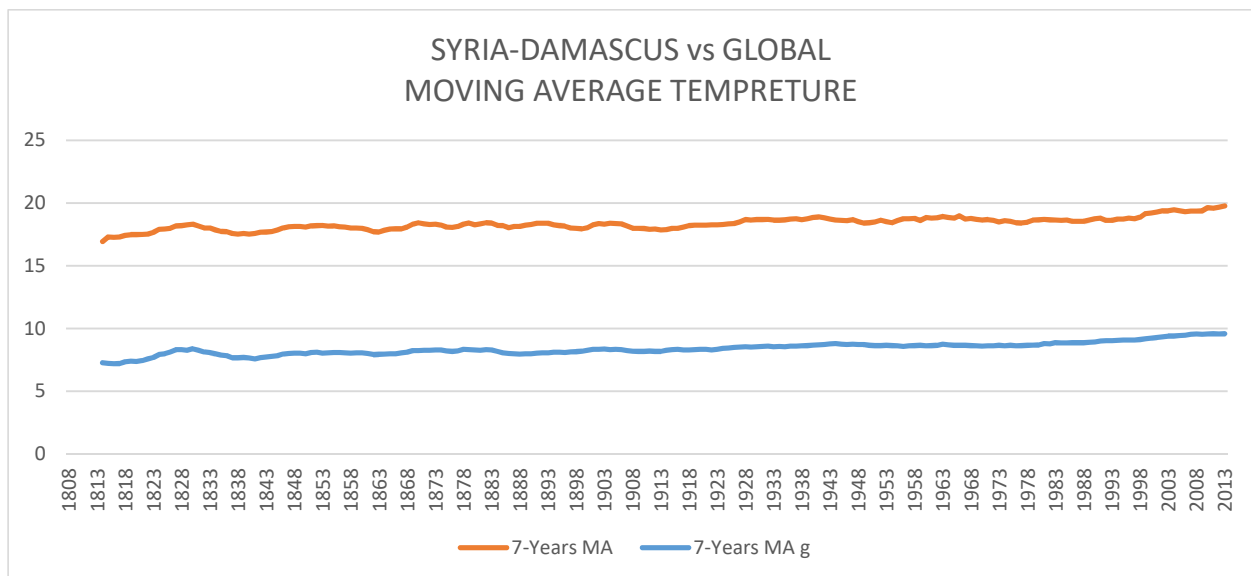
1- Calculate the moving average within 7 years for Syria data



## 2- Calculate the moving average within 7 years for Global data



## 3- Compare Syria temperatures with Global temperatures with Line Chart



### **3- MAKE OBSERVATIONS:**

- 1- Syria weather is hotter than the global temperatures consideration.
- 2- The temperature in Syria is gradually up in average moving temperature.
- 3- The temperature is rise over years and can be observed from previous data.
- 4- The rise of temperatures over years should be consider as important issue for climate changes and regulations should be strict for industries cause these changes.