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'
```

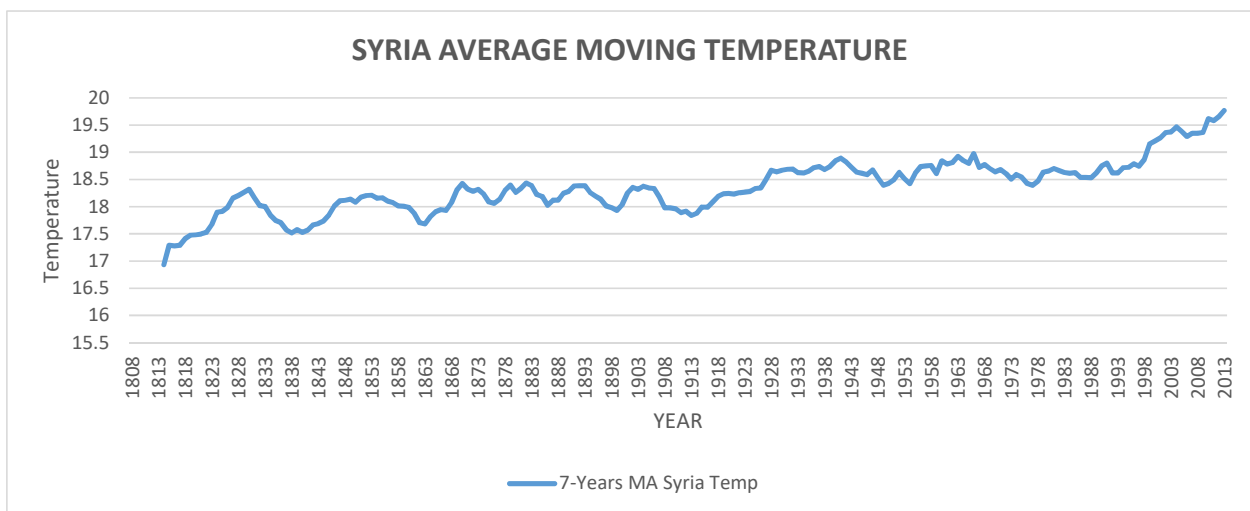2- I extracted the data for Syria by SQL Query:

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

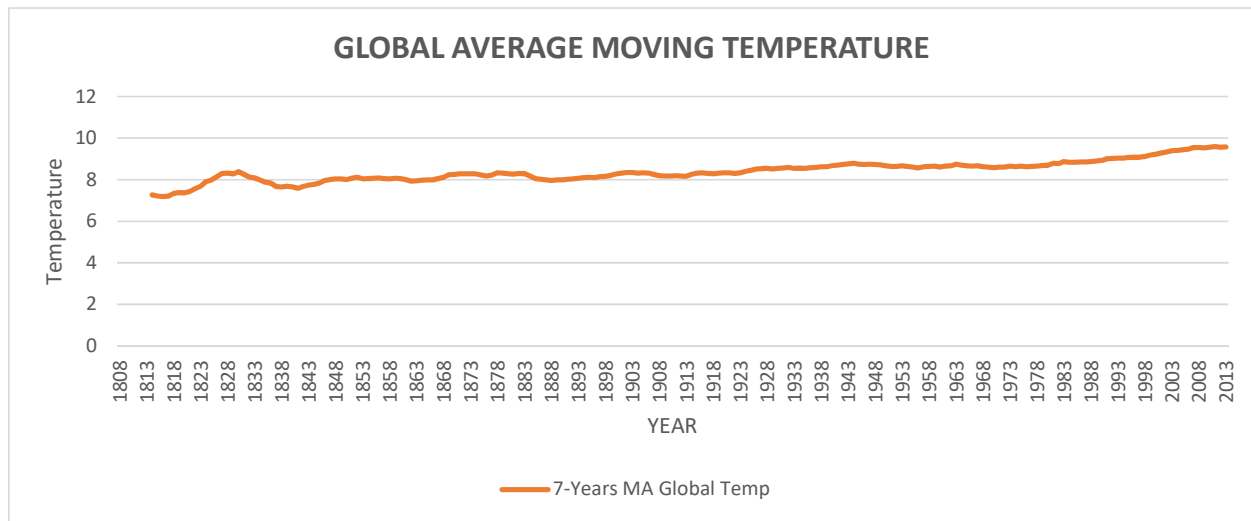3- I extracted the data for global between years (1808-2013) as city_data:

```
SELECT *
FROM global_data
WHERE year BETWEEN 1808 AND 2013
```
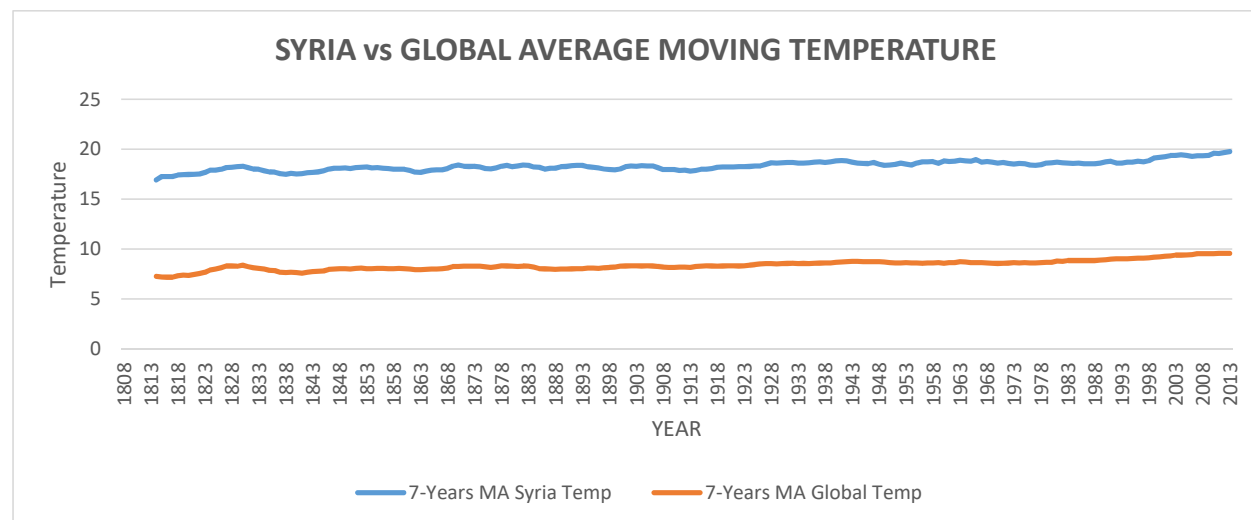
2- Create Line Chart with Excel

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

SYRIA AVERAGE MOVING TEMPERATURE

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

GLOBAL AVERAGE MOVING TEMPERATURE

3- Compare Syria temperatures with Global temperatures with Line Chart

SYRIA vs GLOBAL AVERAGE MOVING TEMPERATURE

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.