

PROJECT 1 – Exploring Weather Trends

- Sanjay.S

1)AIM:

To compare the trends of weather(avg temperature) of the city BENGHAZI with the whole world.

2)Data Collection:

Data was queried from the given temperature data base using the following SQL query:

Input

HISTORY ▼

MENU ▼

SCHEMA

↺

SELECT c.year,g.avg_temp as global_avg_temp
,c.city,c.avg_temp as city_avg_temp
FROM global_data g
JOIN city_data c
ON g.year=c.year
WHERE c.city='Benghazi'

6

Success!

EVALUATE

Output

261 results

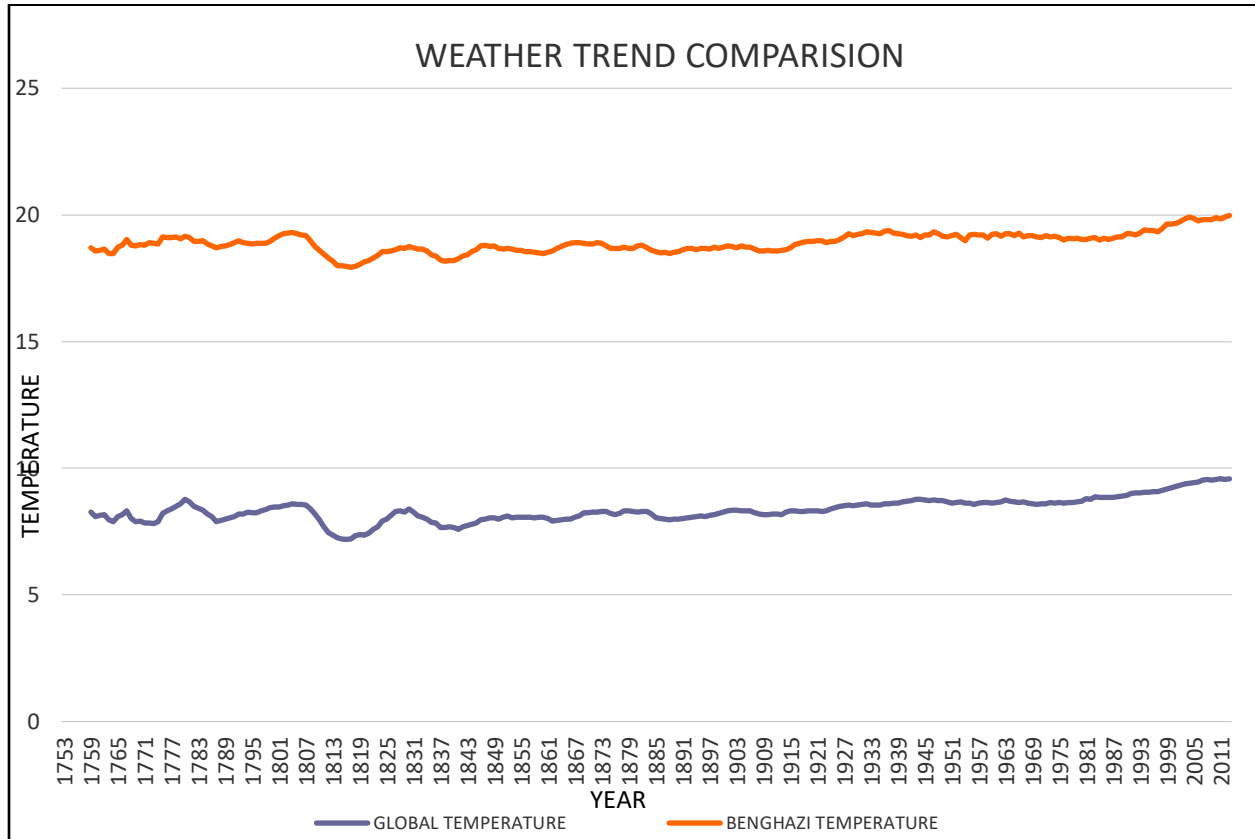
Download CSV

year	global_avg_temp	city	city_avg_temp
1753	8.39	Benghazi	18.87
1754	8.47	Benghazi	19.03
1755	8.36	Benghazi	18.76
1756	8.85	Benghazi	19.36
1757	9.02	Benghazi	19.16
1758	6.74	Benghazi	17.17
1759	7.99	Benghazi	18.60
1760	7.19	Benghazi	18.03

The data was downloaded as a csv file and was opened in a Excel for Analysis.

3)Data analysis:

- Moving Average is calculated over a period of 7 years over both global data and city data(city here refers to Benghazi)
- Line chart is visualized to compare the trends between global data and city data(city here refers to Benghazi) with Year being the X axis and Average Temperature being the Y axis.



4) Insights:

- Differences:
 1. BENGHAZI is a hotter city when compared with the whole world.
 2. The average temperature of globe ranges from 7-10 while the average temperature of BENGHAZI ranges from 18-20.
- Similarities:
 1. Both Benghazi and the whole world had a dip in average temperature in first 2 decades of 19th century (1800-1820).
 2. Both Benghazi and the whole world's average temperature is rising from the end of 20th century(1980 onwards)

P.S - WORKSPACE IN MS EXCEL :

Snippet of the excel workspace of the project.

