

# Project one

## Outline:

firstful, I use Excel tool and I take year from 1900 to 1950 ,the moving average for 10 years and Beirut city. I consider change of MA for global and local over years when deciding to visualize the trends.

### 1. Extracting data from a database using SQL.

1-select city , year,avg\_temp from city\_data where city='Beirut' and year BETWEEN 1900 AND 1950;

2-select year,avg\_temp from global\_data where year BETWEEN 1900 AND 1950;

### 2. line chart and moving average.

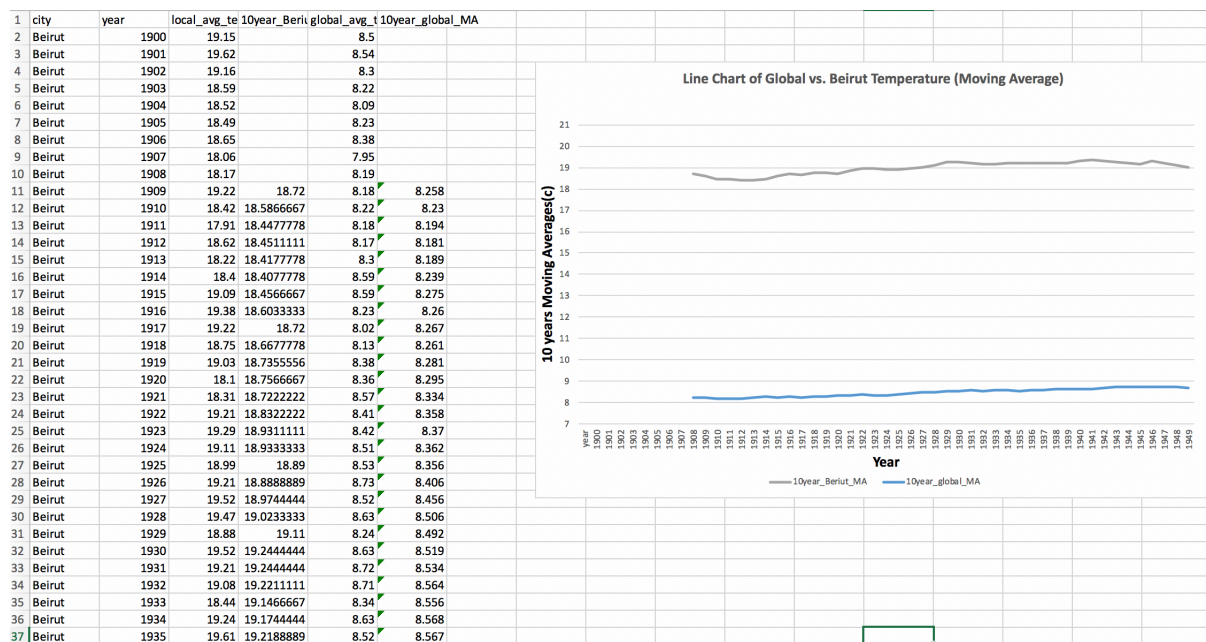


Figure 1:year from 1900-1935

	A	B	C	D	E	F
37	Beirut	1935	19.61	19.2188889	8.52	8.567
38	Beirut	1936	19.42	19.2077778	8.55	8.549
39	Beirut	1937	19.66	19.2288889	8.7	8.567
40	Beirut	1938	18.86	19.2266667	8.86	8.59
41	Beirut	1939	19.47	19.2211111	8.76	8.642
42	Beirut	1940	19.29	19.23	8.76	8.655
43	Beirut	1941	19.54	19.2811111	8.77	8.66
44	Beirut	1942	19.14	19.3588889	8.73	8.662
45	Beirut	1943	18.86	19.3166667	8.76	8.704
46	Beirut	1944	19.09	19.2588889	8.85	8.726
47	Beirut	1945	18.82	19.1922222	8.58	8.732
48	Beirut	1946	19.39	19.1622222	8.68	8.745
49	Beirut	1947	20.05	19.2944444	8.8	8.755
50	Beirut	1948	18.6	19.1977778	8.75	8.744
51	Beirut	1949	18.36	19.0944444	8.59	8.727
52	Beirut	1950	18.94	19.0277778	8.37	8.688

Figure 2:years from 1935-1950

### 3. observations about provided data visualization

- 1-in general we can see that the Beirut average \_temp is hotter than global average \_temp
- 2- changing in Beirut temperature over time is not consistent comparing to the changes in the global average
- 3- from 1900 -1920 global average temperature was not consistent, one year it hot and other is cold but in 1920-1950 it is growing up and getting hotter.
- 4-over time global average temperature getting more hotter