

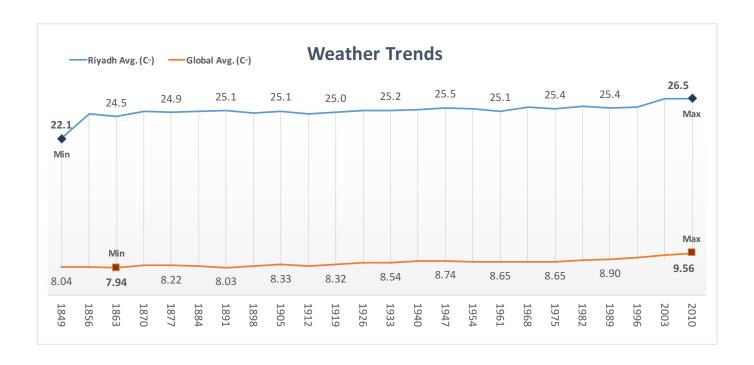
## Project#1: Explore Weather Trends Rakan Yamani

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## # Prepration Steps:

- 1) Data was extracted as CSV files from both "City Table" and "Global Table" using below queries:
  - Select \* From city\_data
  - Select \* From global\_date
- 2) Microsoft Excel 2016 was used to process the extracted data.
- 3) In each data set, a 7-day moving average was calculated by calculating the average of each 7 days together using the following formula: "=Average(B2:B8)" repeatedly.
- 4) Only the overlapped years were selected to be visualized in the liner chart, in addition to the Min & Max degrees in Both Riyadh and Global datasets, as shown below:

Year	Riyadh Avg. (Co)	Global Avg. (C○)	Riyadh Min/Max	Global Min/Max
1849	22.1	8.04	22.1	-
1856	24.8	8.08	-	-
1863	24.5	7.94	-	7.94
1870	25.1	8.25	-	-
1877	24.9	8.22	-	-
1884	25.1	8.18	-	-
1891	25.1	8.03	-	-
1898	24.9	8.16	-	-
1905	25.1	8.33	-	-
1912	24.8	8.18	-	-
1919	25.0	8.32	-	-
1926	25.2	8.50	-	-
1933	25.2	8.54	-	-
1940	25.2	8.68	-	-
1947	25.5	8.74	-	-
1954	25.4	8.63	-	-
1961	25.1	8.65	-	-
1968	25.5	8.62	-	-
1975	25.4	8.65	-	-
1982	25.6	8.77	-	-
1989	25.4	8.90	-	-
1996	25.6	9.08	-	-
2003	26.5	9.39	26.5	-
2010	26.5	9.56	26.5	9.56



## **#General Observations:**

- 1. The difference between Riyadh Min/Max values is: 26.5-22.1= 4.4, which is three times more than the difference between Global Min/Max: 9.56-8.04= 1.52
- 2. Both trends show a gradual raising of the temperature with the time.
- 3. Between 1900 and 1925 the weather was almost stable in both scales.
- 4. Riyadh weather is way hot than the global average :)