Data Analyst Nanodegree

Explore Weather Trends Project

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SQL Query:

- **Export the closest city**:

    select city

    from city_list

    where country Like 'Saudi%';

- **Export Riyadh city data avoiding null data:**

    select year, avg_temp

    from city_data

    where city like 'Riyadh' AND avg_temp IS NOT null;

- **Export the global date:**

    select global_data.year, global_data.avg_temp

    from city_data, global_data

    where city LIKE 'Riyadh' AND city_data.year = global_data.year

    AND city_data.avg_temp IS NOT NULL;
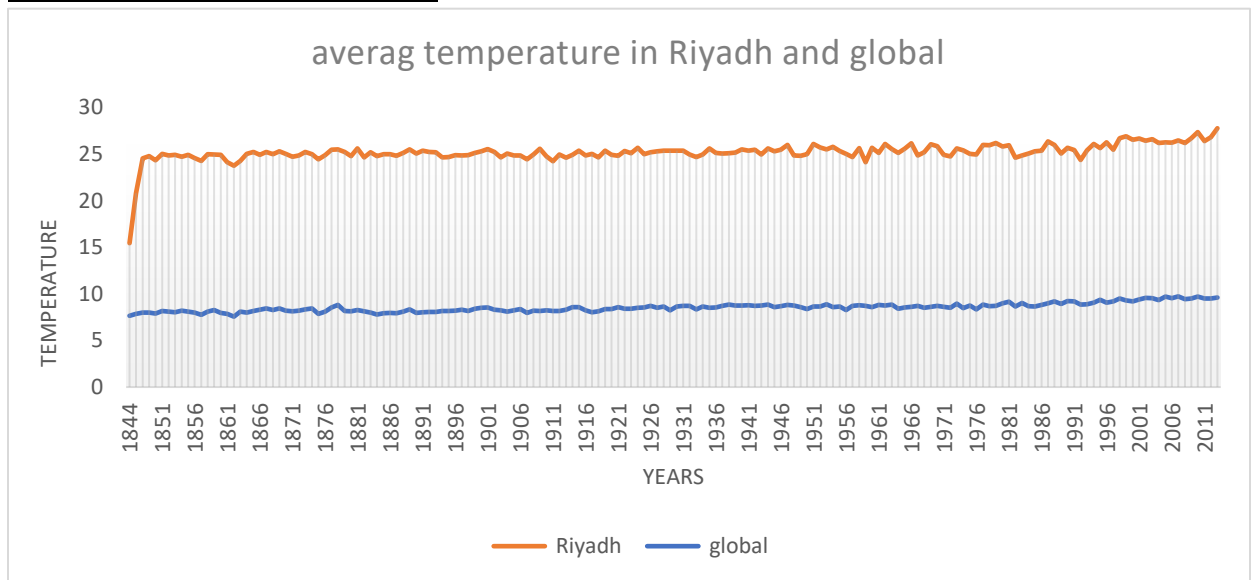
Moving averages:

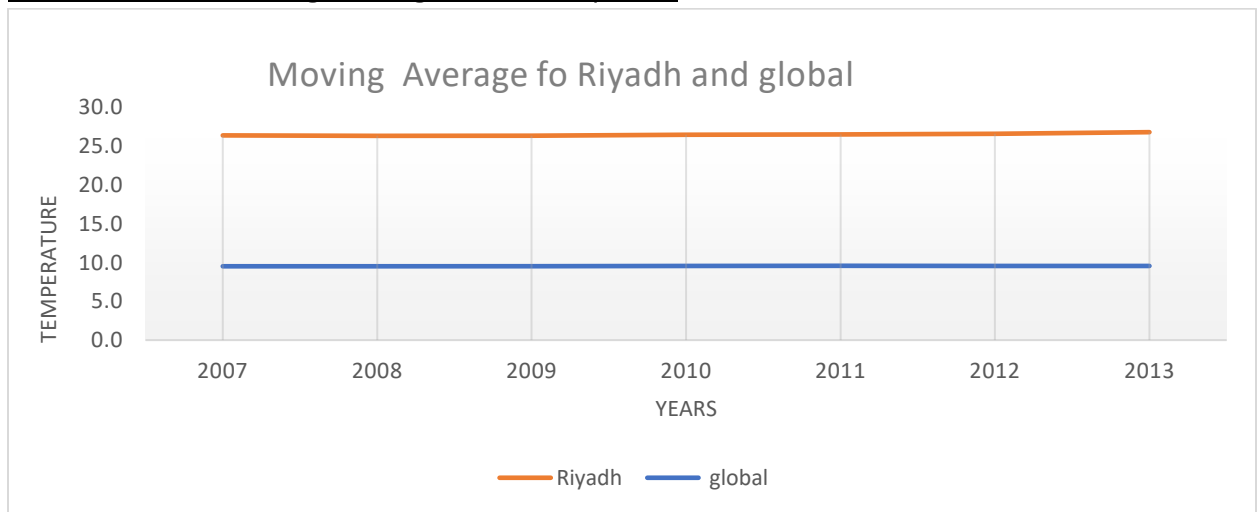## Calculate moving average for last 7 years for Riyadh city and global

	Riyadh	Global
Moving average	=AVERAGE(B164:B170)	=AVERAGE(C164:C170)
	26.83	9.6

<u>LINE CHART:</u>

- <u>Line chart from 1843 to 2013</u>

- <u>Line chart for moving average for last 7 years:</u>

<u>Observations:</u>

1. According to chart, there is a big difference between Riyadh weather and Global weather but there are no big changes over the time
2. The weather in Riyadh City is hotter global.
3. According to moving average chart, the average temperature is stable for last 7 years.
4. According to the char, the global weather is getting hotter.