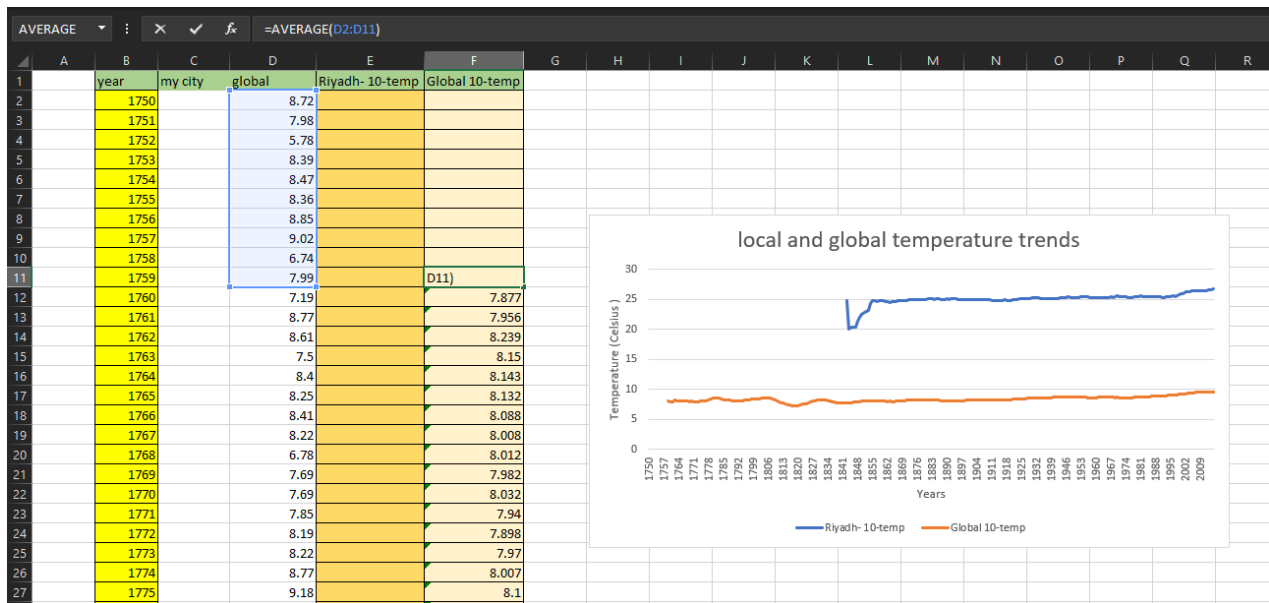UDACITY

Data Analyst Nano-degree

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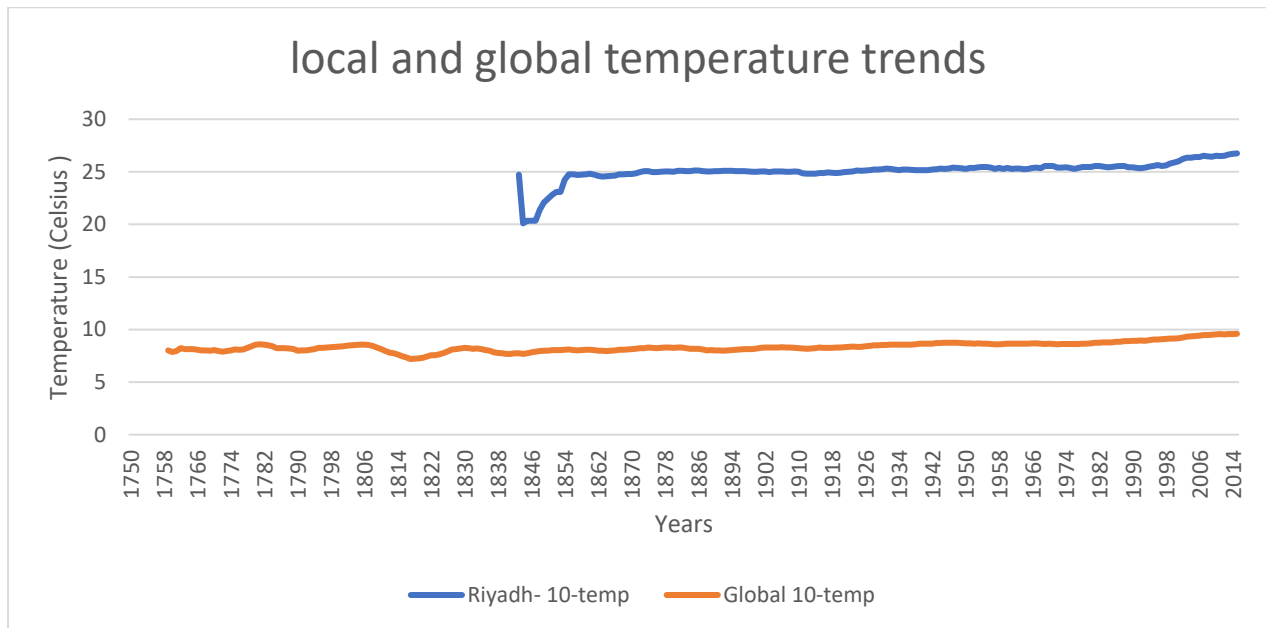
Explore Weather Trends
Project #1

Faisal Alowaini

Tools used:

For the first step, which is fetching the data from the database, we use SQL query to do it, next step for drawing the graph we use excel. In excel, we did not use the average temperature for year, we calculate first the moving average for 10 years to see the curve smoothly.

- Query to fetching Global AVG Temp
  select * from global_data ;
- Query to fetching Riyadh AVG Temp
  select * from city_data where city = 'Riyadh';
- Moving average for last 10 years:
  For cell F11 = AVERAGE(D2:D11)

	AVERAGE		fx	=AVERAGE(D2:D11)			
	A	B	C	D	E	F	
1		year	my city	global	Riyadh- 10-temp	Global 10-temp	
2		1750		8.72			
3		1751		7.98			
4		1752		5.78			
5		1753		8.39			
6		1754		8.47			
7		1755		8.36			
8		1756		8.85			
9		1757		9.02			
10		1758		6.74			
11		1759		7.99		D11)	
12		1760		7.19		7.877	
13		1761		8.77		7.956	
14		1762		8.61		8.239	
15		1763		7.5		8.15	
16		1764		8.4		8.143	
17		1765		8.25		8.132	
18		1766		8.41		8.088	
19		1767		8.22		8.008	
20		1768		6.78		8.012	
21		1769		7.69		7.982	
22		1770		7.69		8.032	
23		1771		7.85		7.94	
24		1772		8.19		7.898	
25		1773		8.22		7.97	
26		1774		8.77		8.007	
27		1775		9.18		8.1	

local and global temperature trends

Line chart:

local and global temperature trends

observations:

- In Riyadh the average temperature, around 25, higher than the average of global temperature.
- The global and Riyadh temperature increasing by almost 2 degree for last 100 year.
- The average temperature in Riyadh decrease in 1846 & 1847, some things happen that years or around it.
- In 2002, average Riyadh temperature increase by 2 degree.