

<b>Project Title</b>	The Comparison between Global Temperature Trends and Dallas Temperature Trends			
<b>Extract the data from the database</b>	<p><b>Used a SQL query to extract the global data. Export to CSV.</b></p> <pre>SELECT * FROM global_data ORDER BY 1;</pre> <p><b>Used a SQL query to extract the city list. Export to CSV.</b></p> <pre>SELECT * FROM city_list ORDER BY 2,1;</pre> <p><b>Used a SQL query to extract the Dallas data. Export to CSV.</b></p> <pre>SELECT * FROM city_data WHERE city = 'Dallas' AND country = 'United States' ORDER BY 1;</pre>			
<b>Open up the CSV</b>	Used excel			
<b>Create a line chart</b>	Used excel to plot the 5-year movement average of global temperature and dallas temperature from year 1824-2013			

**dallas\_data** ☆ 📁

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**fx** =average(D2:D6)

	A	B	C	D	E
1	year	city	country	avg_temp	5-year MA
2	1820	Dallas	United States	16.88	
3	1821	Dallas	United States	17.33	
4	1822	Dallas	United States	17.87	
5	1823	Dallas	United States	17.46	
6	1824	Dallas	United States	17.9	17.488
7	1825	Dallas	United States	18.38	17.788
8	1826	Dallas	United States	17.93	17.908
9	1827	Dallas	United States	18.62	18.058
10	1828	Dallas	United States	18.26	18.218
11	1829	Dallas	United States	17.89	18.216
12	1830	Dallas	United States	18.68	18.276
13	1831	Dallas	United States	16.98	18.086
14	1832	Dallas	United States	17.81	17.924

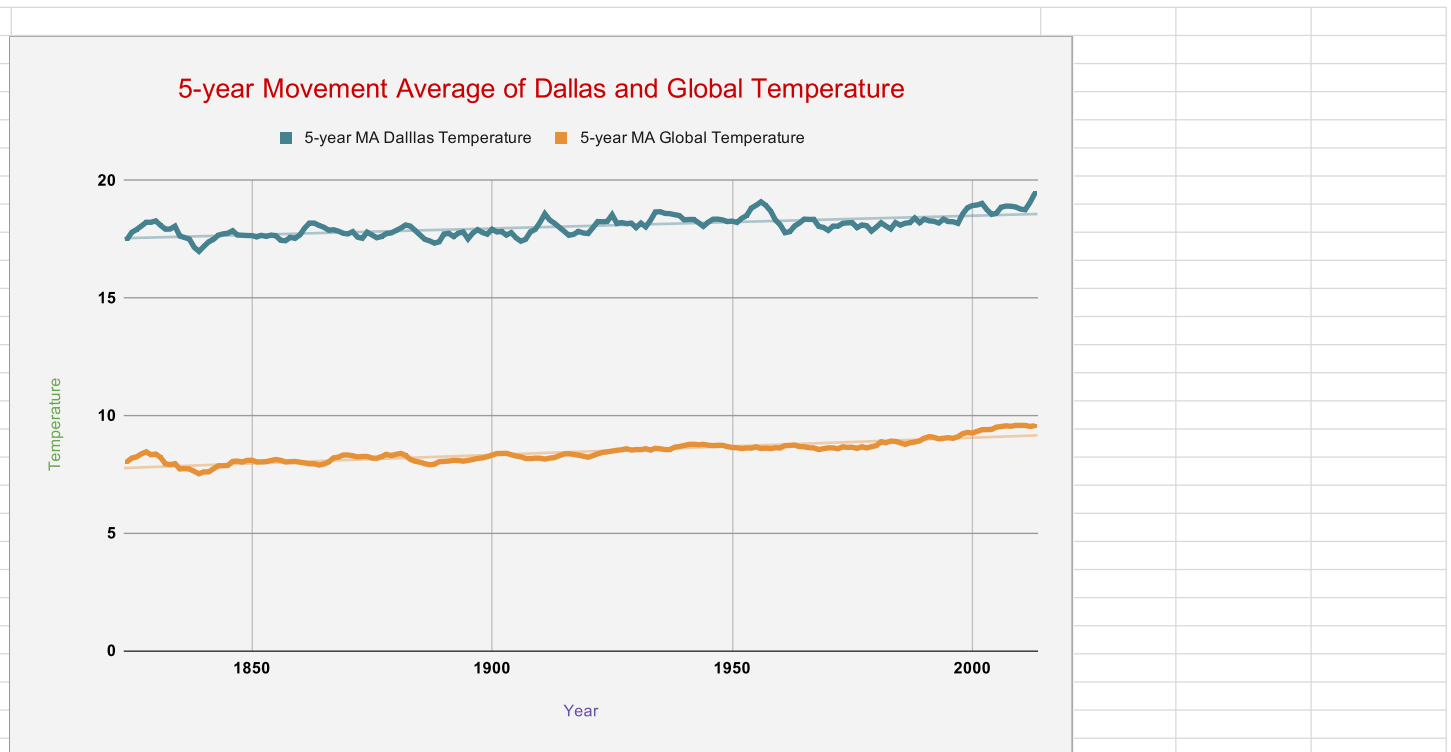
**global\_data** ☆ 📁

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**fx** =AVERAGE(B72:B76)

	A	B	C
1	year	avg_temp	5-year MA
72	1820	7.62	7.348
73	1821	8.09	7.578
74	1822	8.19	7.82
75	1823	7.72	7.798
76	1824	8.55	8.034
77	1825	8.39	8.188
78	1826	8.36	8.242
79	1827	8.81	8.366
80	1828	8.17	8.456
81	1829	7.94	8.334
82	1830	8.52	8.36
83	1831	7.64	8.216
84	1832	7.45	7.944
85	1833	8.01	7.912
86	1834	8.15	7.954
87	1835	7.39	7.728



Make observations about the similarities and differences between the world averages and dallas averages, as well as overall trends

#### The similarities:

- In overall trend, the 5-year movement average of Dallas and Global Temperature are getting hotter over years and the trend has been consistent over the last few hundred years.  
For example:

+ The 5-year movement average of Dallas temperature is: 17.488 in 1824, lower than 19.448 in 2013 while the 5-year movement average of global temperature is: 8.034 in 1824, lower than 9.57 in 2013.

- The lowest year of both Dallas and global temperature is in 1839, at that time the lowest 5-year movement average of Dallas temperature is 16.98 while the lowest 5-year movement average of global temperature is 7.522.

#### The differences:

- The 5-year Movement Average of Dallas temperature is higher than Global temperature and it has been consistent over time.

	- The 5-year movement average of Dallas temperature is from 16.98 to 19.448 from year 1824 - 2013			
	- The 5-year movement average of global temperature is from 7.522 to 9.57 from year 1824 - 2013			
	- The changes in Dallas temperatures over time is higher than the changes in the global average.			