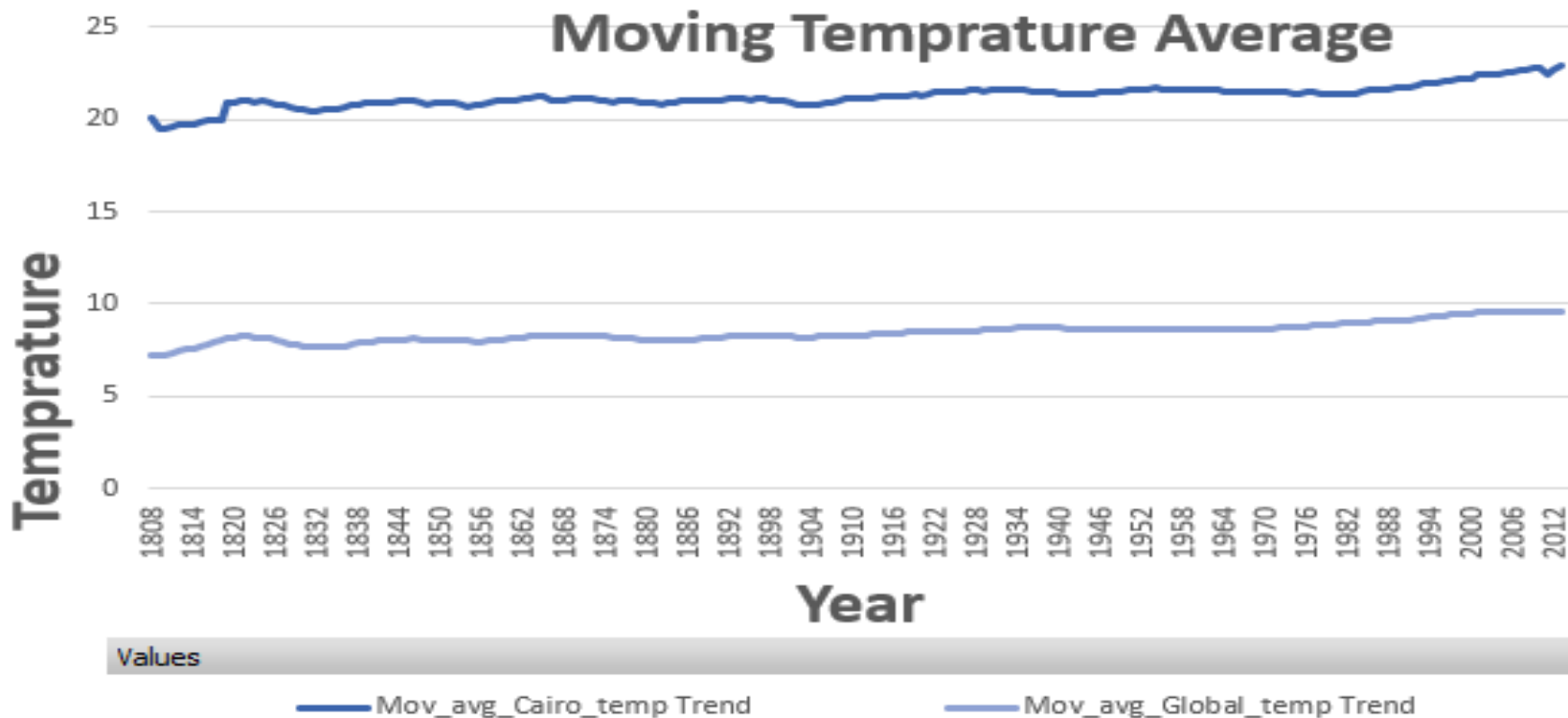


# Project Weather Trends

```
SELECT c.year, c.city, c.avg_temp avg_city_temp, g.avg_temp avg_global_temp
FROM city_data c
join global_data g
on c.year = g.year and city = 'Cairo';
```



## **Outlines:**

I use SQL by means of join tables for extract A table of data that Include both city data + global data

Then I calculate the moving Average of both Cairo temp and global temp according to years decade.

Finally I visualize these moving average of both trends vs each others per the primary key "years"

Using Excel.

## **Observations:**

- 1- Cairo is hotter on average compared to the global average in temp by years.**
- 2- between Cairo Average temp vs global average temp over years is almost consistent.**
- 3- changes in Cairo temperatures changes is getting hotter continuously over time almost like changes in the global average temperature so Cairo Affected by Global Warming.**
- 4-overall trend tells us that Is the world getting hotter consistently over the last few hundred years.**

	A	B	C	D	E	F
1	year	city	avg_Cairo_temp	mov_avg_Cairo_temp	avg_global_temp	mov_avg_glob_temp
2	1808	Cairo	17.11	=AVERAGE(C2:C11)	7.63	7.203
3	1809	Cairo	19.87	19.496	7.08	7.223
4	1810	Cairo	19.93	19.54	6.92	7.252
5	1811	Cairo	20	19.605	6.86	7.322
6	1812	Cairo	19.93	19.668	7.05	7.445
7	1813	Cairo	20.51	19.747	7.74	7.559
8	1814	Cairo	20.43	19.767	7.59	7.557
9	1815	Cairo	20.3	19.868	7.24	7.653
10	1816	Cairo	20.51	19.938	6.94	7.768
11	1817	Cairo	21.88	19.981	6.98	7.91
12	1818	Cairo	11.6	19.956	7.83	8.093
13	1819	Cairo	20.31	20.895	7.37	8.127
14	1820	Cairo	20.58	20.955	7.62	8.184
15	1821	Cairo	20.63	21.022	8.09	8.274
16	1822	Cairo	20.72	21.011	8.19	8.229
17	1823	Cairo	20.71	20.959	7.72	8.155
18	1824	Cairo	21.44	20.969	8.55	8.184
19	1825	Cairo	21	20.894	8.39	8.144
20	1826	Cairo	20.94	20.811	8.36	8.044
21	1827	Cairo	21.63	20.776	8.81	7.978
22	1828	Cairo	20.99	20.64	8.17	7.835
23	1829	Cairo	20.91	20.562	7.94	7.769
24	1830	Cairo	21.25	20.514	8.52	7.738
25	1831	Cairo	20.52	20.445	7.64	7.666
26	1832	Cairo	20.2	20.484	7.45	7.671
27	1833	Cairo	20.81	20.556	8.01	7.728

	A	B	C	D	E	F
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26	1832	Cairo	20.2	20.484	7.45	7.671
27	1833	Cairo	20.81	20.556	8.01	7.728