

The Submission of Exploring Weather Trends

Project

1- Sql Query

```
- select c.year ,c.city,c.avg_temp as cairo_temp,g.avg_temp
    from city_data c
    join global_data g
    on g.year=c.year
    where c.city='Cairo';
```

2- I used Excel to open csv file and calculate moving average to draw chart

3-Line chart

year	city	cairo_temp	Cairo_avg_temp	global_temp	global_avg
1808	Cairo	17.11		7.63	
1809	Cairo	19.87		7.08	
1810	Cairo	19.93		6.92	
1811	Cairo	20		6.86	
1812	Cairo	19.93		7.05	
1813	Cairo	20.51		7.74	
1814	Cairo	20.43		7.59	
1815	Cairo	20.3		7.24	
1816	Cairo	20.51		6.94	
1817	Cairo	21.88	20.047	6.98	7.203
1818	Cairo	11.6	19.496	7.83	7.223
1819	Cairo	20.31	19.54	7.37	7.252
1820	Cairo	20.58	19.605	7.62	7.322
1821	Cairo	20.63	19.668	8.09	7.445

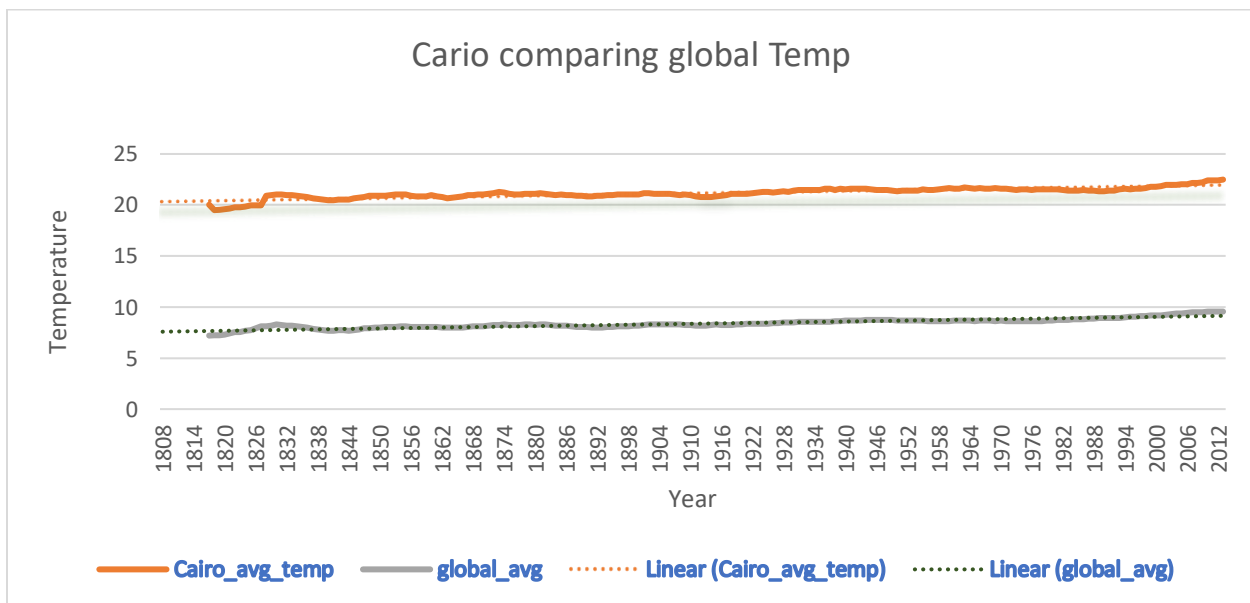
1822	Cairo	20.72	19.747	8.19	7.559
1823	Cairo	20.71	19.767	7.72	7.557
1824	Cairo	21.44	19.868	8.55	7.653
1825	Cairo	21	19.938	8.39	7.768
1826	Cairo	20.94	19.981	8.36	7.91
1827	Cairo	21.63	19.956	8.81	8.093
1828	Cairo	20.99	20.895	8.17	8.127
1829	Cairo	20.91	20.955	7.94	8.184
1830	Cairo	21.25	21.022	8.52	8.274
1831	Cairo	20.52	21.011	7.64	8.229
1832	Cairo	20.2	20.959	7.45	8.155
1833	Cairo	20.81	20.969	8.01	8.184
1834	Cairo	20.69	20.894	8.15	8.144
1835	Cairo	20.17	20.811	7.39	8.044
1836	Cairo	20.59	20.776	7.7	7.978
1837	Cairo	20.27	20.64	7.38	7.835
1838	Cairo	20.21	20.562	7.51	7.769
1839	Cairo	20.43	20.514	7.63	7.738
1840	Cairo	20.56	20.445	7.8	7.666
1841	Cairo	20.91	20.484	7.69	7.671
1842	Cairo	20.92	20.556	8.02	7.728
1843	Cairo	20.83	20.558	8.17	7.744
1844	Cairo	20.66	20.555	7.65	7.694
1845	Cairo	20.9	20.628	7.85	7.74
1846	Cairo	21.57	20.726	8.55	7.825
1847	Cairo	21.1	20.809	8.09	7.896
1848	Cairo	20.89	20.877	7.98	7.943
1849	Cairo	20.9	20.924	7.98	7.978
1850	Cairo	20.39	20.907	7.9	7.988
1851	Cairo	21.11	20.927	8.18	8.037
1852	Cairo	21.04	20.939	8.1	8.045
1853	Cairo	21.53	21.009	8.04	8.032
1854	Cairo	20.74	21.017	8.21	8.088
1855	Cairo	21.04	21.031	8.11	8.114
1856	Cairo	20.49	20.923	8	8.059
1857	Cairo	20.29	20.842	7.76	8.026
1858	Cairo	20.9	20.843	8.1	8.038
1859	Cairo	20.98	20.851	8.25	8.065
1860	Cairo	21.33	20.945	7.96	8.071
1861	Cairo	20.21	20.855	7.85	8.038
1862	Cairo	20.22	20.773	7.56	7.984
1863	Cairo	20.6	20.68	8.11	7.991
1864	Cairo	21.25	20.731	7.98	7.968

1865	Cairo	21.55	20.782	8.18	7.975
1866	Cairo	21.35	20.868	8.29	8.004
1867	Cairo	21.45	20.984	8.44	8.072
1868	Cairo	20.94	20.988	8.25	8.087
1869	Cairo	21.41	21.031	8.43	8.105
1870	Cairo	21.3	21.028	8.2	8.129
1871	Cairo	20.87	21.094	8.12	8.156
1872	Cairo	21.14	21.186	8.19	8.219
1873	Cairo	21.4	21.266	8.35	8.243
1874	Cairo	20.77	21.218	8.43	8.288
1875	Cairo	19.99	21.062	7.86	8.256
1876	Cairo	21.05	21.032	8.08	8.235
1877	Cairo	21.39	21.026	8.54	8.245
1878	Cairo	21.54	21.086	8.83	8.303
1879	Cairo	21.49	21.094	8.17	8.277
1880	Cairo	21.2	21.084	8.12	8.269
1881	Cairo	21.56	21.153	8.27	8.284
1882	Cairo	20.38	21.077	8.13	8.278
1883	Cairo	20.65	21.002	7.98	8.241
1884	Cairo	20.23	20.948	7.77	8.175
1885	Cairo	20.91	21.04	7.92	8.181
1886	Cairo	20.55	20.99	7.95	8.168
1887	Cairo	21.21	20.972	7.91	8.105
1888	Cairo	21.04	20.922	8.09	8.031
1889	Cairo	21.05	20.878	8.32	8.046
1890	Cairo	21.09	20.867	7.97	8.031
1891	Cairo	21.13	20.824	8.02	8.006
1892	Cairo	21.39	20.925	8.07	8
1893	Cairo	20.57	20.917	8.06	8.008
1894	Cairo	20.95	20.989	8.16	8.047
1895	Cairo	20.97	20.995	8.15	8.07
1896	Cairo	21.17	21.057	8.21	8.096
1897	Cairo	20.82	21.018	8.29	8.134
1898	Cairo	20.92	21.006	8.18	8.143
1899	Cairo	21.04	21.005	8.4	8.151
1900	Cairo	21.57	21.053	8.5	8.204
1901	Cairo	21.89	21.129	8.54	8.256
1902	Cairo	21.36	21.126	8.3	8.279
1903	Cairo	20.39	21.108	8.22	8.295
1904	Cairo	20.61	21.074	8.09	8.288
1905	Cairo	21.03	21.08	8.23	8.296
1906	Cairo	21.24	21.087	8.38	8.313
1907	Cairo	20.45	21.05	7.95	8.279

1908	Cairo	20.37	20.995	8.19	8.28
1909	Cairo	21.4	21.031	8.18	8.258
1910	Cairo	20.65	20.939	8.22	8.23
1911	Cairo	20.78	20.828	8.18	8.194
1912	Cairo	20.79	20.771	8.17	8.181
1913	Cairo	20.4	20.772	8.3	8.189
1914	Cairo	20.96	20.807	8.59	8.239
1915	Cairo	21.57	20.861	8.59	8.275
1916	Cairo	21.73	20.91	8.23	8.26
1917	Cairo	21.12	20.977	8.02	8.267
1918	Cairo	21.43	21.083	8.13	8.261
1919	Cairo	21.43	21.086	8.38	8.281
1920	Cairo	20.72	21.093	8.36	8.295
1921	Cairo	20.73	21.088	8.57	8.334
1922	Cairo	21.39	21.148	8.41	8.358
1923	Cairo	21.39	21.247	8.42	8.37
1924	Cairo	21.61	21.312	8.51	8.362
1925	Cairo	21.37	21.292	8.53	8.356
1926	Cairo	21.22	21.241	8.73	8.406
1927	Cairo	21.76	21.305	8.52	8.456
1928	Cairo	21.72	21.334	8.63	8.506
1929	Cairo	21.07	21.298	8.24	8.492
1930	Cairo	21.73	21.399	8.63	8.519
1931	Cairo	21.6	21.486	8.72	8.534
1932	Cairo	21.43	21.49	8.71	8.564
1933	Cairo	21.24	21.475	8.34	8.556
1934	Cairo	21.52	21.466	8.63	8.568
1935	Cairo	21.61	21.49	8.52	8.567
1936	Cairo	22	21.568	8.55	8.549
1937	Cairo	21.82	21.574	8.7	8.567
1938	Cairo	20.92	21.494	8.86	8.59
1939	Cairo	21.85	21.572	8.76	8.642
1940	Cairo	21.59	21.558	8.76	8.655
1941	Cairo	21.76	21.574	8.77	8.66
1942	Cairo	21.59	21.59	8.73	8.662
1943	Cairo	21.35	21.601	8.76	8.704
1944	Cairo	21.4	21.589	8.85	8.726
1945	Cairo	20.83	21.511	8.58	8.732
1946	Cairo	21.76	21.487	8.68	8.745
1947	Cairo	21.94	21.499	8.8	8.755
1948	Cairo	20.88	21.495	8.75	8.744
1949	Cairo	20.68	21.378	8.59	8.727
1950	Cairo	21.53	21.372	8.37	8.688

1951	Cairo	21.82	21.378	8.63	8.674
1952	Cairo	21.92	21.411	8.64	8.665
1953	Cairo	21.17	21.393	8.87	8.676
1954	Cairo	21.45	21.398	8.56	8.647
1955	Cairo	22.1	21.525	8.63	8.652
1956	Cairo	21.48	21.497	8.28	8.612
1957	Cairo	21.49	21.452	8.73	8.605
1958	Cairo	21.85	21.549	8.77	8.607
1959	Cairo	20.98	21.579	8.73	8.621
1960	Cairo	22.3	21.656	8.58	8.642
1961	Cairo	21.14	21.588	8.8	8.659
1962	Cairo	22.11	21.607	8.75	8.67
1963	Cairo	22.09	21.699	8.86	8.669
1964	Cairo	21.07	21.661	8.41	8.654
1965	Cairo	21.52	21.603	8.53	8.644
1966	Cairo	22.1	21.665	8.6	8.676
1967	Cairo	20.92	21.608	8.7	8.673
1968	Cairo	21.48	21.571	8.52	8.648
1969	Cairo	21.88	21.661	8.6	8.635
1970	Cairo	21.53	21.584	8.7	8.647
1971	Cairo	21.41	21.611	8.6	8.627
1972	Cairo	21.57	21.557	8.5	8.602
1973	Cairo	21.42	21.49	8.95	8.611
1974	Cairo	21.55	21.538	8.47	8.617
1975	Cairo	21.35	21.521	8.74	8.638
1976	Cairo	21.28	21.439	8.35	8.613
1977	Cairo	21.57	21.504	8.85	8.628
1978	Cairo	21.67	21.523	8.69	8.645
1979	Cairo	22.06	21.541	8.73	8.658
1980	Cairo	21.52	21.54	8.98	8.686
1981	Cairo	21.42	21.541	9.17	8.743
1982	Cairo	21.04	21.488	8.64	8.757
1983	Cairo	20.75	21.421	9.03	8.765
1984	Cairo	21.32	21.398	8.69	8.787
1985	Cairo	21.72	21.435	8.66	8.779
1986	Cairo	21.52	21.459	8.83	8.827
1987	Cairo	21.24	21.426	8.99	8.841
1988	Cairo	21.65	21.424	9.2	8.892
1989	Cairo	21.43	21.361	8.92	8.911
1990	Cairo	21.6	21.369	9.23	8.936
1991	Cairo	21.65	21.392	9.18	8.937
1992	Cairo	21.11	21.399	8.84	8.957
1993	Cairo	21.79	21.503	8.87	8.941

1994	Cairo	22.02	21.573	9.04	8.976
1995	Cairo	21.56	21.557	9.35	9.045
1996	Cairo	21.88	21.593	9.04	9.066
1997	Cairo	21.45	21.614	9.2	9.087
1998	Cairo	22.36	21.685	9.52	9.119
1999	Cairo	22.28	21.77	9.29	9.156
2000	Cairo	21.49	21.759	9.2	9.153
2001	Cairo	22.33	21.827	9.41	9.176
2002	Cairo	22.41	21.957	9.57	9.249
2003	Cairo	22.17	21.995	9.53	9.315
2004	Cairo	22.08	22.001	9.32	9.343
2005	Cairo	22.01	22.046	9.7	9.378
2006	Cairo	22.05	22.063	9.53	9.427
2007	Cairo	22.36	22.154	9.73	9.48
2008	Cairo	22.64	22.182	9.43	9.471
2009	Cairo	22.63	22.217	9.51	9.493
2010	Cairo	23.72	22.44	9.7	9.543
2011	Cairo	21.99	22.406	9.52	9.554
2012	Cairo	22.48	22.413	9.51	9.548
2013	Cairo	22.91	22.487	9.61	9.556



4 - My observations

- Cairo is always above the global average
- Cairo has same rate of increasing in temperature as Global
- World going to be more heater
- the Increase in 90 years ist 5 which I find dangerous for normal life