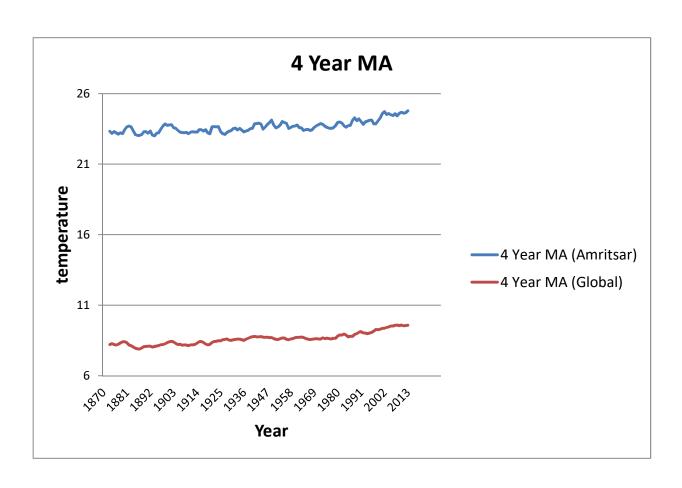
Year	Avg_temp(Amritsar)	Avg_temp(global)	4 Year MA (Amritsar)	4 Year MA (Global)
1870	23.3	8.2		
1871	23.21	8.12		
1872	23.34	8.19		
1873	23.45	8.35	23.325	8.215
1874	22.71	8.43	23.1775	8.2725
1875	23.73	7.86	23.3075	8.2075
1876	23	8.08	23.2225	8.18
1877	23.06	8.54	23.125	8.2275
1878	23.1	8.83	23.2225	8.3275
1879	23.5	8.17	23.165	8.405
1880	24.12	8.12	23.445	8.415
1881	23.83	8.27	23.6375	8.3475
1882	23.36	8.13	23.7025	8.1725
1883	23.27	7.98	23.645	8.125
1884	23.05	7.77	23.3775	8.0375
1885	22.7	7.92	23.095	7.95
1886	23.13	7.95	23.0375	7.905
1887	23.27	7.91	23.0375	7.8875
1888	23.3	8.09	23.1	7.9675
1889	23.49	8.32	23.2975	8.0675
1890	23.17	7.97	23.3075	8.0725
1891	22.83	8.02	23.1975	8.1
1892	23.91	8.07	23.35	8.095
1893	22.3	8.06	23.0525	8.03
1894	22.98	8.16	23.005	8.0775
1895	23.57	8.15	23.19	8.11
1896	24.05	8.21	23.225	8.145
1897	23.36	8.29	23.49	8.2025
1898	23.88	8.18	23.715	8.2075
1899	24.1	8.4	23.8475	8.27
1900	23.65	8.5	23.7475	8.3425
1901	23.51	8.54	23.785	8.405
1902	23.9	8.3	23.79	8.435
1903	23.24	8.22	23.575	8.39
1904	23.52	8.09	23.5425	8.2875
1905	22.91	8.23	23.3925	8.21
1906	23.43	8.38	23.275	8.23
1907	23.11	7.95	23.2425	8.1625
1908	23.46	8.19	23.2275	8.1875
1909	22.99	8.18	23.2475	8.175
1910	23.1	8.22	23.165	8.135
1911	23.54	8.18	23.2725	8.1925
1912	23.54	8.17	23.2925	8.1875

1913	22.92	8.3	23.275	8.2175
1914	23.11	8.59	23.2775	8.31
1915	24.21	8.59	23.445	8.4125
1916	23.53	8.23	23.4425	8.4275
1917	22.51	8.02	23.34	8.3575
1918	23.53	8.13	23.445	8.2425
1919	23.29	8.38	23.215	8.19
1920	23.26	8.36	23.1475	8.2225
1921	24.52	8.57	23.65	8.36
1922	23.57	8.41	23.66	8.43
1923	23.26	8.42	23.6525	8.44
1924	23.29	8.51	23.66	8.4775
1925	23.14	8.53	23.315	8.4675
1926	22.94	8.73	23.1575	8.5475
1927	23.05	8.52	23.105	8.5725
1928	23.81	8.63	23.235	8.6025
1929	23.54	8.24	23.335	8.53
1930	23.1	8.63	23.375	8.505
1931	23.64	8.72	23.5225	8.555
1932	23.93	8.71	23.5525	8.575
1933	23.02	8.34	23.4225	8.6
1934	23.53	8.63	23.53	8.6
1935	23.16	8.52	23.41	8.55
1936	23.41	8.55	23.28	8.51
1937	23.3	8.7	23.35	8.6
1938	23.72	8.86	23.3975	8.6575
1939	23.6	8.76	23.5075	8.7175
1940	23.56	8.76	23.545	8.77
1941	24.59	8.77	23.8675	8.7875
1942	23.73	8.73	23.87	8.755
1943	23.76	8.76	23.91	8.755
1944	23.27	8.85	23.8375	8.7775
1945	23.15	8.58	23.4775	8.73
1946	24.3	8.68	23.62	8.7175
1947	24.54	8.8	23.815	8.7275
1948	23.78	8.75	23.9425	8.7025
1949	23.89	8.59	24.1275	8.705
1950	22.82	8.37	23.7575	8.6275
1951	23.8	8.63	23.5725	8.585
1952	24.02	8.64	23.6325	8.5575
1953	24.44	8.87	23.77	8.6275
1954	23.85	8.56	24.0275	8.675
1955	23.52	8.63	23.9575	8.675
1956	23.76	8.28	23.8925	8.585

1957	22.98	0 72	22 5275	0 5 5
1958	22.98 24.16	8.73 8.77	23.5275 23.605	8.55 8.6025
1959	23.81	8.73	23.6775	8.6275
1960	23.87	8.58	23.705	8.7025
1961	23.24	8.8	23.77	8.72
1962	23.45	8.75	23.5925	8.715
1963	23.71	8.86	23.5675	8.7475
1964	23.17	8.41	23.3925	8.705
1965	23.44	8.53	23.4425	8.6375
1966	23.55	8.6	23.4675	8.6
1967	23.41	8.7	23.3925	8.56
1968	23.33	8.52	23.4325	8.5875
1969	24.13	8.6	23.605	8.605
1970	24.01	8.7	23.72	8.63
1971	23.71	8.6	23.795	8.605
1972	23.67	8.5	23.88	8.6
1973	23.86	8.95	23.8125	8.6875
1974	23.54	8.47	23.695	8.63
1975	23.35	8.74	23.605	8.665
1976	23.44	8.35	23.5475	8.6275
1977	23.83	8.85	23.54	8.6025
1978	23.7	8.69	23.58	8.6575
1979	23.94	8.73	23.7275	8.655
1980	24.33	8.98	23.95	8.8125
1981	23.98	9.17	23.9875	8.8925
1982	23.45	8.64	23.925	8.88
1983	23.11	9.03	23.7175	8.955
1984	23.9	8.69	23.61	8.8825
1985	24.44	8.66	23.725	8.755
1986	23.55	8.83	23.75	8.8025
1987	24.52	8.99	24.1025	8.7925
1988	24.61	9.2	24.28	8.92
1989	23.62	8.92	24.075	8.985
1990	24.1	9.23	24.2125	9.085
1991	23.77	9.18	24.025	9.1325
1992	23.79	8.84	23.82	9.0425
1993	24.34	8.87	24	9.03
1994	24.29	9.04	24.0475	8.9825
1995	24.04	9.35	24.115	9.025
1996	23.81	9.04	24.113	9.025
1997	23.26	9.04	23.85	9.075
1998	24.34	9.52	23.8625	9.1373
1999				
	24.9	9.29	24.0775	9.2625
2000	24.57	9.2	24.2675	9.3025

2001	24.5	9.41	24.5775	9.355
2002	24.91	9.57	24.72	9.3675
2003	24.1	9.53	24.52	9.4275
2004	24.85	9.32	24.59	9.4575
2005	24.12	9.7	24.495	9.53
2006	24.72	9.53	24.4475	9.52
2007	24.6	9.73	24.5725	9.57
2008	24.25	9.43	24.4225	9.5975
2009	24.87	9.51	24.61	9.55
2010	24.98	9.7	24.675	9.5925
2011	24.35	9.52	24.6125	9.54
2012	24.37	9.51	24.6425	9.56
2013	25.44	9.61	24.785	9.585



Observations:-

- On average the temperature of Amritsar is more than the global temperature.
- 2. From year 1870 to till 2013, the max average Global temperature is 9.7 deg. Celcius while the max average temperature of Amritsar is 25.44 deg. Celcius.
- 3. Over 170 years the global average temperature is increased by 1.32 deg.celcius while the average temperature of Amritsar is increased by2.14 deg. Celcius which is approx. the double of Global .
- **4.** The world is getting hotter but Amritsar getting more hotter as compared to world.

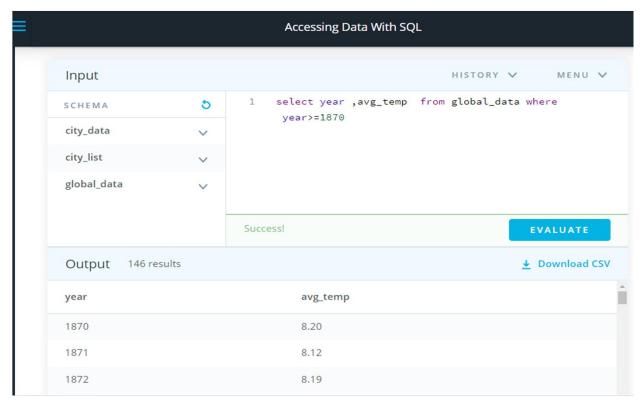
This might be because of the pollution level as this is the major reason for the increase in the temperature or we can say global warming.

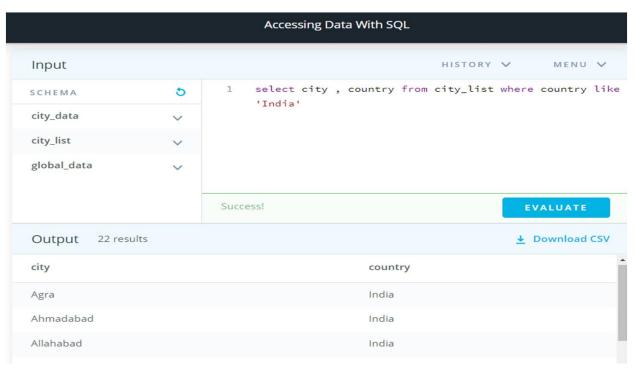
Steps Used:-

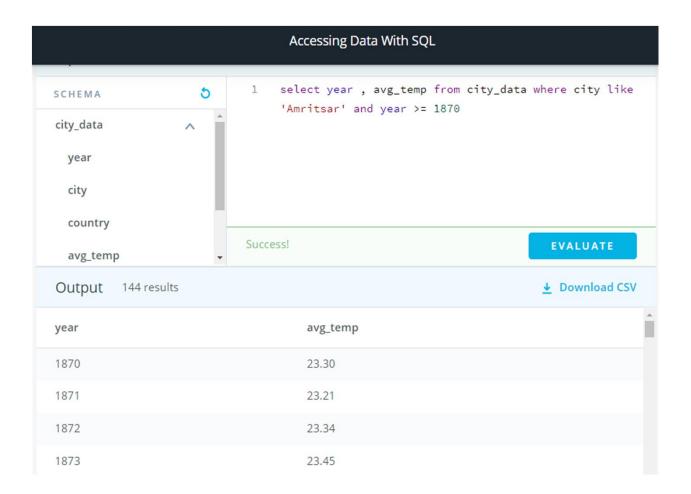
- 1. Extracted The data from the given tables (city_lists , city_data, global_data) using SQL queries.
- 2. Copied That data to excel.
- **3.** Calculated The Moving Averages for global avegarge _temp and for averages Amritsar using formula (=AVERAGE(B2:B5)). .
- **4.** Created the Line Charts for moving averages and average_tempeartures of world and Amritsar.

Tools used:-

1. sql.







2. Excel.

