

SQL is used to fetch the data

Input

HISTORY ▾

MENU ▾

SCHEMA	↻	1 select year, avg_temp
city_data	▾	2 from city_data
city_list	▾	3 where year >= 1843 and city = 'Milan'
global_data	▾	

Success!

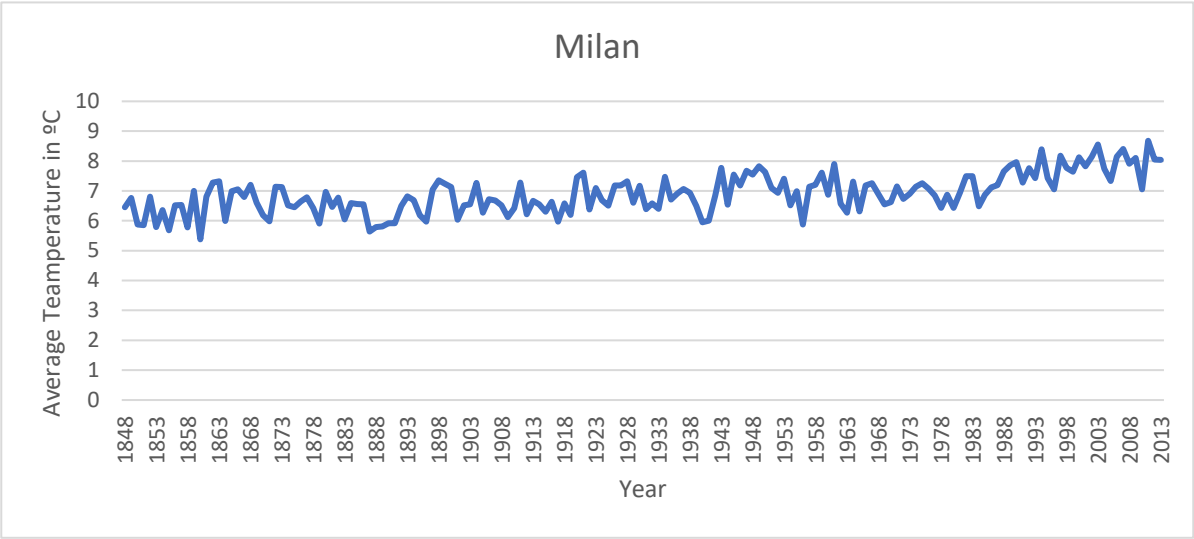
EVALUATE

year	avg_temp
1848	6.46
1849	6.77
1850	5.88
1851	5.85
1852	6.81
1853	5.79
1854	6.36
1855	5.68
1856	6.52
1857	6.53
1858	5.78
1859	7
1860	5.38
1861	6.81
1862	7.28
1863	7.32
1864	5.99
1865	6.99
1866	7.05
1867	6.8
1868	7.21
1869	6.61
1870	6.19
1871	5.98
1872	7.14
1873	7.13
1874	6.52
1875	6.45
1876	6.65
1877	6.79
1878	6.42
1879	5.91
1880	6.97
1881	6.47

1882	6.78
1883	6.05
1884	6.59
1885	6.56
1886	6.55
1887	5.64
1888	5.79
1889	5.81
1890	5.92
1891	5.92
1892	6.5
1893	6.82
1894	6.69
1895	6.19
1896	5.97
1897	7.04
1898	7.36
1899	7.24
1900	7.13
1901	6.04
1902	6.52
1903	6.55
1904	7.27
1905	6.27
1906	6.72
1907	6.68
1908	6.52
1909	6.12
1910	6.42
1911	7.28
1912	6.22
1913	6.67
1914	6.55
1915	6.3
1916	6.64
1917	5.97
1918	6.58
1919	6.2
1920	7.46
1921	7.61
1922	6.38
1923	7.1
1924	6.69
1925	6.51
1926	7.18
1927	7.18
1928	7.32

1929	6.61
1930	7.17
1931	6.39
1932	6.58
1933	6.4
1934	7.47
1935	6.71
1936	6.92
1937	7.07
1938	6.94
1939	6.5
1940	5.95
1941	6.01
1942	6.84
1943	7.77
1944	6.54
1945	7.55
1946	7.18
1947	7.68
1948	7.55
1949	7.83
1950	7.63
1951	7.1
1952	6.94
1953	7.41
1954	6.52
1955	6.99
1956	5.88
1957	7.14
1958	7.21
1959	7.61
1960	6.87
1961	7.9
1962	6.57
1963	6.27
1964	7.31
1965	6.32
1966	7.18
1967	7.26
1968	6.89
1969	6.55
1970	6.63
1971	7.15
1972	6.73
1973	6.91
1974	7.14
1975	7.26

1976	7.08
1977	6.85
1978	6.43
1979	6.87
1980	6.43
1981	6.95
1982	7.49
1983	7.49
1984	6.49
1985	6.87
1986	7.12
1987	7.19
1988	7.65
1989	7.86
1990	7.97
1991	7.28
1992	7.76
1993	7.43
1994	8.39
1995	7.43
1996	7.06
1997	8.18
1998	7.77
1999	7.64
2000	8.13
2001	7.83
2002	8.15
2003	8.55
2004	7.74
2005	7.33
2006	8.15
2007	8.4
2008	7.91
2009	8.11
2010	7.05
2011	8.68
2012	8.05
2013	8.04



Observations:

- The temperature in Milan is steadily rising
- 1994 is the first year that the average temperature in Milan hit 8 °C
- Since 1940, the average temperature in Milan has not dropped below 6 °C
- Since 1985, the average temperature in Milan has not dropped below 7 °C

Input

HISTORY

MENU

SCHEMA

city_data

city_list

global_data

1

2

3

select year, avg_temp

from city_data

where year >= 1843 and city = 'Riyadh'

Success!

EVALUATE

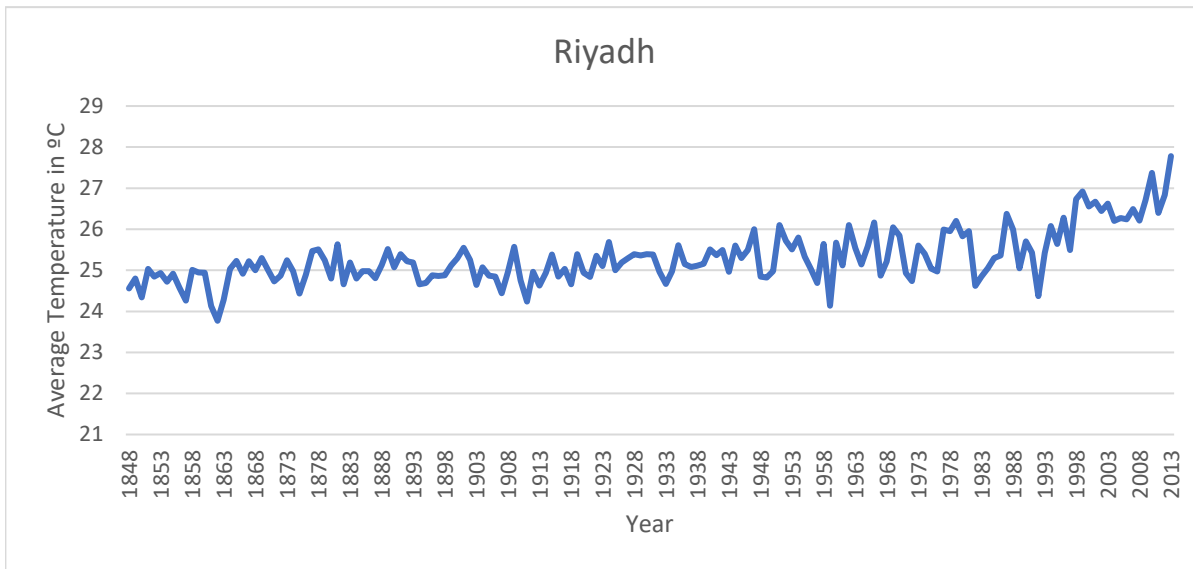
year	avg_temp
1848	24.56
1849	24.8
1850	24.34
1851	25.03
1852	24.85
1853	24.93
1854	24.72
1855	24.92
1856	24.57
1857	24.26
1858	25.01
1859	24.95
1860	24.94
1861	24.13

1862	23.77
1863	24.28
1864	25.03
1865	25.23
1866	24.92
1867	25.22
1868	25
1869	25.3
1870	25.02
1871	24.73
1872	24.87
1873	25.24
1874	24.98
1875	24.43
1876	24.89
1877	25.47
1878	25.51
1879	25.24
1880	24.8
1881	25.63
1882	24.66
1883	25.19
1884	24.8
1885	24.98
1886	24.98
1887	24.81
1888	25.13
1889	25.52
1890	25.07
1891	25.39
1892	25.22
1893	25.19
1894	24.66
1895	24.69
1896	24.88
1897	24.86
1898	24.88
1899	25.12
1900	25.29
1901	25.55
1902	25.25
1903	24.64
1904	25.07
1905	24.87
1906	24.85
1907	24.44
1908	24.95

1909	25.57
1910	24.75
1911	24.24
1912	24.96
1913	24.63
1914	24.94
1915	25.38
1916	24.85
1917	25.03
1918	24.66
1919	25.39
1920	24.94
1921	24.84
1922	25.35
1923	25.1
1924	25.69
1925	25
1926	25.19
1927	25.29
1928	25.39
1929	25.36
1930	25.39
1931	25.38
1932	24.96
1933	24.67
1934	24.97
1935	25.61
1936	25.15
1937	25.08
1938	25.11
1939	25.16
1940	25.51
1941	25.37
1942	25.49
1943	24.96
1944	25.6
1945	25.3
1946	25.49
1947	26
1948	24.85
1949	24.82
1950	24.98
1951	26.1
1952	25.72
1953	25.51
1954	25.8
1955	25.33

1956	25.02
1957	24.69
1958	25.64
1959	24.14
1960	25.67
1961	25.12
1962	26.1
1963	25.54
1964	25.14
1965	25.59
1966	26.16
1967	24.87
1968	25.21
1969	26.05
1970	25.84
1971	24.93
1972	24.74
1973	25.6
1974	25.4
1975	25.04
1976	24.97
1977	25.99
1978	25.95
1979	26.2
1980	25.83
1981	25.95
1982	24.62
1983	24.85
1984	25.05
1985	25.3
1986	25.36
1987	26.37
1988	25.99
1989	25.05
1990	25.7
1991	25.43
1992	24.37
1993	25.42
1994	26.08
1995	25.64
1996	26.28
1997	25.49
1998	26.73
1999	26.92
2000	26.55
2001	26.67
2002	26.44

2003	26.62
2004	26.2
2005	26.27
2006	26.24
2007	26.49
2008	26.21
2009	26.71
2010	27.37
2011	26.4
2012	26.83
2013	27.78



Observations:

The temperature in Riyadh is steadily rising.

The distance between the troughs and the crests get larger as the years go by.

While in Milan the average temperature from 1848 to 2013 increased by 1.58°C, the average temperature in Riyadh increased by 3.22°C

The slope in both countries is positive.

A positive correlation of 0.399379 for both arrays is considered to be strong

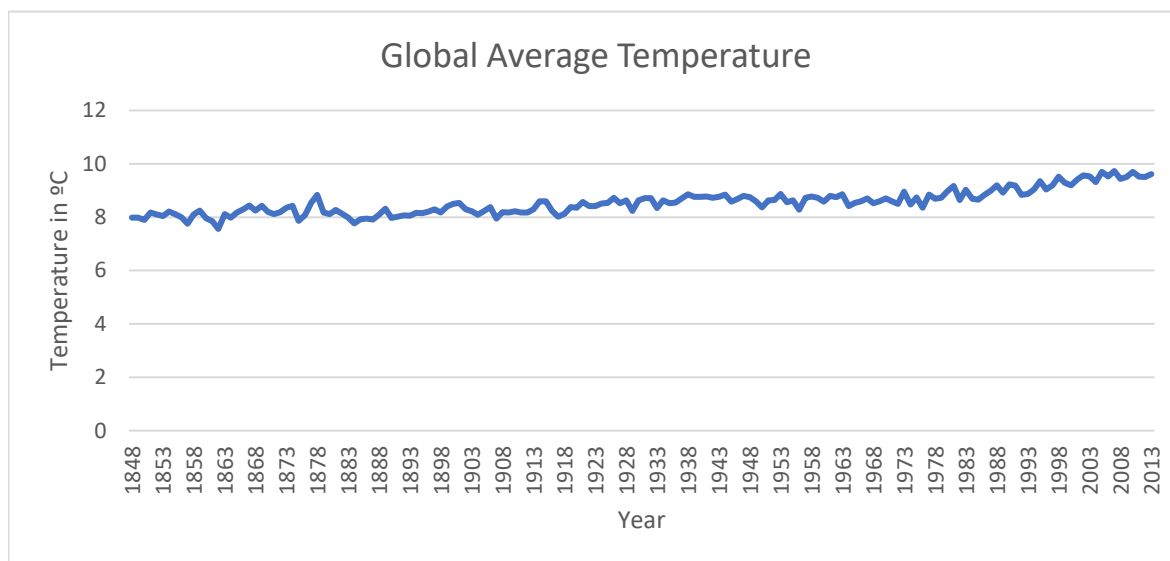
year	global_avg_temp	riyadh_avg_temp
1848	7.98	24.56
1849	7.98	24.8
1850	7.9	24.34
1851	8.18	25.03

1852	8.1	24.85
1853	8.04	24.93
1854	8.21	24.72
1855	8.11	24.92
1856	8	24.57
1857	7.76	24.26
1858	8.1	25.01
1859	8.25	24.95
1860	7.96	24.94
1861	7.85	24.13
1862	7.56	23.77
1863	8.11	24.28
1864	7.98	25.03
1865	8.18	25.23
1866	8.29	24.92
1867	8.44	25.22
1868	8.25	25
1869	8.43	25.3
1870	8.2	25.02
1871	8.12	24.73
1872	8.19	24.87
1873	8.35	25.24
1874	8.43	24.98
1875	7.86	24.43
1876	8.08	24.89
1877	8.54	25.47
1878	8.83	25.51
1879	8.17	25.24
1880	8.12	24.8
1881	8.27	25.63
1882	8.13	24.66
1883	7.98	25.19
1884	7.77	24.8
1885	7.92	24.98
1886	7.95	24.98
1887	7.91	24.81
1888	8.09	25.13
1889	8.32	25.52
1890	7.97	25.07
1891	8.02	25.39
1892	8.07	25.22
1893	8.06	25.19
1894	8.16	24.66
1895	8.15	24.69
1896	8.21	24.88
1897	8.29	24.86
1898	8.18	24.88

1899	8.4	25.12
1900	8.5	25.29
1901	8.54	25.55
1902	8.3	25.25
1903	8.22	24.64
1904	8.09	25.07
1905	8.23	24.87
1906	8.38	24.85
1907	7.95	24.44
1908	8.19	24.95
1909	8.18	25.57
1910	8.22	24.75
1911	8.18	24.24
1912	8.17	24.96
1913	8.3	24.63
1914	8.59	24.94
1915	8.59	25.38
1916	8.23	24.85
1917	8.02	25.03
1918	8.13	24.66
1919	8.38	25.39
1920	8.36	24.94
1921	8.57	24.84
1922	8.41	25.35
1923	8.42	25.1
1924	8.51	25.69
1925	8.53	25
1926	8.73	25.19
1927	8.52	25.29
1928	8.63	25.39
1929	8.24	25.36
1930	8.63	25.39
1931	8.72	25.38
1932	8.71	24.96
1933	8.34	24.67
1934	8.63	24.97
1935	8.52	25.61
1936	8.55	25.15
1937	8.7	25.08
1938	8.86	25.11
1939	8.76	25.16
1940	8.76	25.51
1941	8.77	25.37
1942	8.73	25.49
1943	8.76	24.96
1944	8.85	25.6
1945	8.58	25.3

1946	8.68	25.49
1947	8.8	26
1948	8.75	24.85
1949	8.59	24.82
1950	8.37	24.98
1951	8.63	26.1
1952	8.64	25.72
1953	8.87	25.51
1954	8.56	25.8
1955	8.63	25.33
1956	8.28	25.02
1957	8.73	24.69
1958	8.77	25.64
1959	8.73	24.14
1960	8.58	25.67
1961	8.8	25.12
1962	8.75	26.1
1963	8.86	25.54
1964	8.41	25.14
1965	8.53	25.59
1966	8.6	26.16
1967	8.7	24.87
1968	8.52	25.21
1969	8.6	26.05
1970	8.7	25.84
1971	8.6	24.93
1972	8.5	24.74
1973	8.95	25.6
1974	8.47	25.4
1975	8.74	25.04
1976	8.35	24.97
1977	8.85	25.99
1978	8.69	25.95
1979	8.73	26.2
1980	8.98	25.83
1981	9.17	25.95
1982	8.64	24.62
1983	9.03	24.85
1984	8.69	25.05
1985	8.66	25.3
1986	8.83	25.36
1987	8.99	26.37
1988	9.2	25.99
1989	8.92	25.05
1990	9.23	25.7
1991	9.18	25.43
1992	8.84	24.37

1993	8.87	25.42
1994	9.04	26.08
1995	9.35	25.64
1996	9.04	26.28
1997	9.2	25.49
1998	9.52	26.73
1999	9.29	26.92
2000	9.2	26.55
2001	9.41	26.67
2002	9.57	26.44
2003	9.53	26.62
2004	9.32	26.2
2005	9.7	26.27
2006	9.53	26.24
2007	9.73	26.49
2008	9.43	26.21
2009	9.51	26.71
2010	9.7	27.37
2011	9.52	26.4
2012	9.51	26.83
2013	9.61	27.78



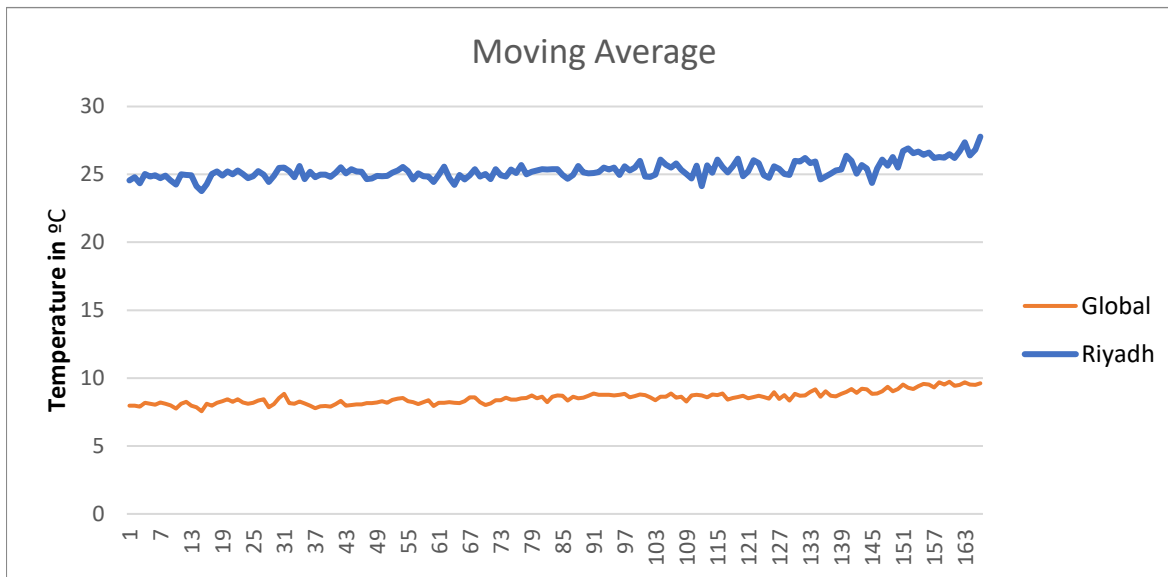
```

1  SELECT
2  global_data.year, global_data.avg_temp as
   global_avg_temp,
3  city_data.avg_temp as Riyadh_avg_temp
4  FROM city_data JOIN global_data
5  ON global_data.year = city_data.year
6  WHERE city_data.city LIKE 'Riyadh';

```

Success!

EVALUATE



Observations:

The global temperature is increasing as the year go by. As it's shown in year 1848 the average temperature was 7.98 and it have continued to escalate and reach 9.61 in 2013.

The correlation of the global temperature and Riyadh's temperature is 0.782229121, therfore there's a strong and positive relationship between both arrays.

The global average temperature demonstrates that the temperature has not dropped below 9°C since 1994

Since 1908, the global temperature has not dropped below 8°C.

