

## The query used to extract data from the database

Select \*

From city\_data

Where city ='Bangalore'

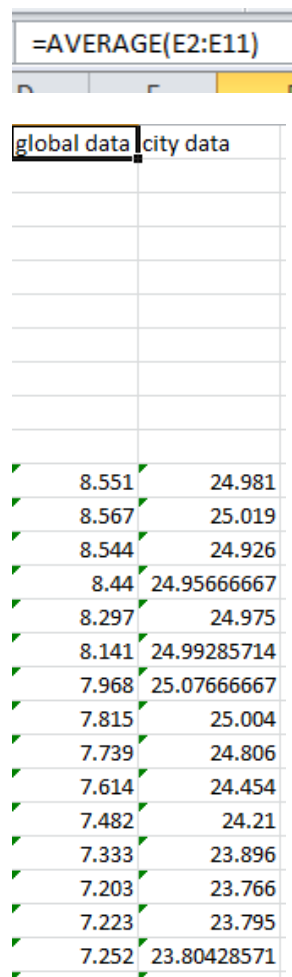
Query used to extract global data

Select \*

From global\_data

## Moving averages are calculated to be used in the line chart.

I have used the average formula in excel to calculate the 10 year moving average and dragged the formula down.



global data	city data
8.551	24.981
8.567	25.019
8.544	24.926
8.44	24.95666667
8.297	24.975
8.141	24.99285714
7.968	25.07666667
7.815	25.004
7.739	24.806
7.614	24.454
7.482	24.21
7.333	23.896
7.203	23.766
7.223	23.795
7.252	23.80428571

Global data	City data
8.551	24.981
8.567	25.019
8.544	24.926
8.44	24.95666667
8.297	24.975
8.141	24.99285714
7.968	25.07666667
7.815	25.004
7.739	24.806
7.614	24.454
7.482	24.21
7.333	23.896
7.203	23.766
7.223	23.795
7.252	23.80428571
7.322	23.8175
7.445	23.88222222
7.559	23.927
7.557	23.966
7.653	24.085
7.768	24.175
7.91	24.333
8.093	24.44
8.127	24.507
8.184	24.567
8.274	24.615
8.229	24.618
8.155	24.651
8.184	24.635
8.144	24.584
8.044	24.504
7.978	24.428
7.835	24.374
7.769	24.342
7.738	24.32
7.666	24.305
7.671	24.267
7.728	24.223

7.744	24.176
7.694	24.14
7.74	24.197
7.825	24.275
7.896	24.297
7.943	24.303
7.978	24.311
7.988	24.325
8.037	24.365
8.045	24.386
8.032	24.454
8.088	24.504
8.114	24.533
8.059	24.464
8.026	24.416
8.038	24.44
8.065	24.463
8.071	24.466
8.038	24.442
7.984	24.358
7.991	24.32333333
7.968	24.2725
7.975	24.31125
8.004	24.41
8.072	24.54625
8.087	24.60625
8.105	24.6525
8.129	24.65375
8.156	24.68625
8.219	24.7975
8.243	24.76555556
8.288	24.745
8.256	24.703
8.235	24.687
8.245	24.714
8.303	24.722
8.277	24.669
8.269	24.685
8.284	24.714
8.278	24.699
8.241	24.673

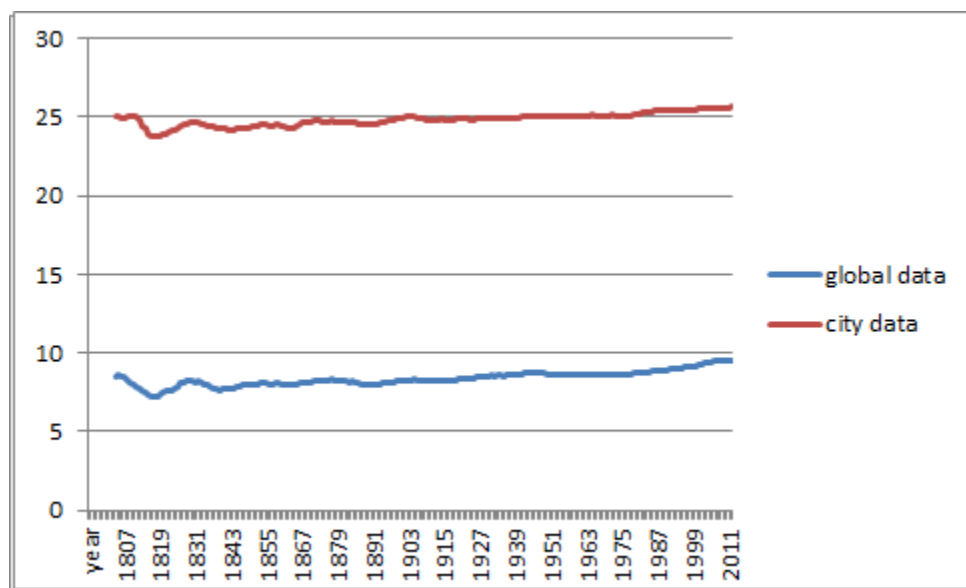
8.175	24.652
8.181	24.65
8.168	24.619
8.105	24.527
8.031	24.475
8.046	24.509
8.031	24.497
8.006	24.516
8	24.542
8.008	24.555
8.047	24.595
8.07	24.611
8.096	24.67
8.134	24.769
8.143	24.793
8.151	24.794
8.204	24.892
8.256	24.906
8.279	24.953
8.295	24.997
8.288	24.975
8.296	24.989
8.313	24.986
8.279	24.93
8.28	24.909
8.258	24.896
8.23	24.794
8.194	24.761
8.181	24.755
8.189	24.773
8.239	24.822
8.275	24.852
8.26	24.818
8.267	24.79
8.261	24.798
8.281	24.843
8.295	24.9
8.334	24.912
8.358	24.886
8.37	24.87
8.362	24.857

8.356	24.804
8.406	24.843
8.456	24.903
8.506	24.935
8.492	24.916
8.519	24.903
8.534	24.939
8.564	24.933
8.556	24.91
8.568	24.902
8.567	24.926
8.549	24.911
8.567	24.901
8.59	24.886
8.642	24.883
8.655	24.889
8.66	24.92
8.662	24.975
8.704	24.983
8.726	24.994
8.732	25.006
8.745	25.004
8.755	25.01
8.744	25.04
8.727	25.048
8.688	25.041
8.674	24.989
8.665	24.978
8.676	25.027
8.647	25.027
8.652	25
8.612	24.976
8.605	24.985
8.607	24.993
8.621	25.025
8.642	25.047
8.659	25.041
8.67	25.019
8.669	25.005
8.654	25.022
8.644	25.048

8.676	25.107
8.673	25.083
8.648	25.054
8.635	25.066
8.647	25.054
8.627	25.031
8.602	25.063
8.611	25.099
8.617	25.084
8.638	25.066
8.613	25.047
8.628	25.08
8.645	25.087
8.658	25.095
8.686	25.145
8.743	25.188
8.757	25.208
8.765	25.227
8.787	25.241
8.779	25.286
8.827	25.324
8.841	25.385
8.892	25.428
8.911	25.404
8.936	25.384
8.937	25.416
8.957	25.39
8.941	25.353
8.976	25.367
9.045	25.38
9.066	25.37
9.087	25.357
9.119	25.408
9.156	25.417
9.153	25.426
9.176	25.43
9.249	25.49
9.315	25.56
9.343	25.563
9.378	25.567
9.427	25.568

9.48	25.546
9.471	25.48
9.493	25.524
9.543	25.561
9.554	25.544
9.548	25.572
9.556	25.641

## Line chart showing the city data compared to world data.



## Observations

- City- My city has been hotter in the year 2013 as compared to the year 1762 and the temperature has been increased by 0.66 degree.  
World- There has been rise in the temperature by 1 degree which is slightly more as compared to city. There is a slight difference between the change in temperature of city and world.
- There is a similarity between the changes in city data and global data. At the initial level the line remains constant, then it decreases and increases after 1820's, due to industrial revolution. In between little there are ups and downs in both the lines, and after the 20<sup>th</sup> century the line slowly increases.
- There has been an upward trend in the temperature data, over the last 2 centuries, and the world is getting hotter as the global temperature has risen by 1 degree, which is

more as compared to the city data trend. This seems to be a small number but it has a huge impact on the world.

- The city and world data are correlated as the change in global temperature impacts the city's temperature.