PROJECT1

Exploring Weather Trends

First, I use SQL to retrieve the temperature average of the nearest city in my country which is mecca and compare it with the global average temperature.

QUERIES

- 1st Query

```
SELECT year , avg_temp
 FROM city_data
WHERE city='Mecca'
ORDER BY year DESC
```

- 2ed Query

```
SELECT year , avg_temp
 FROM city_data
WHERE city='Mecca'
ORDER BY year DESC
```

This pictures illustrate how I calculate the moving average for last 10 years in mecca and the global

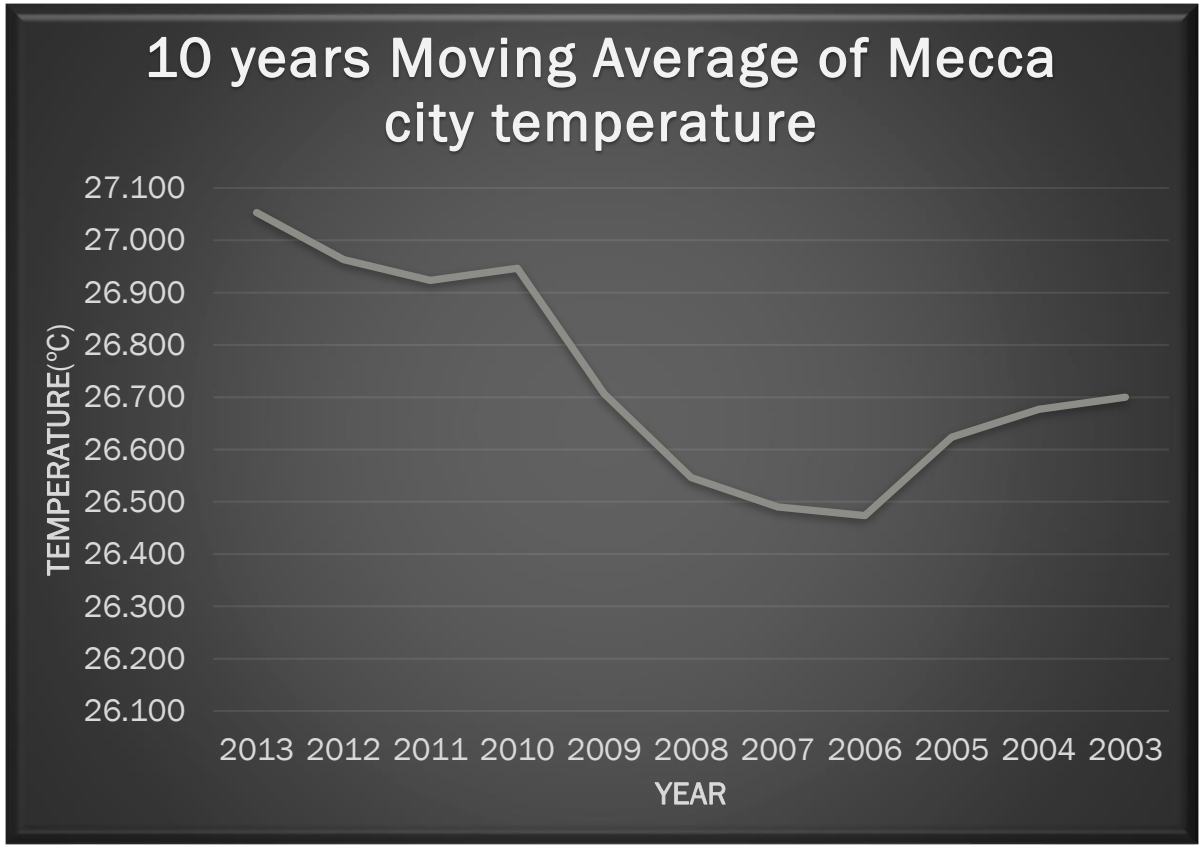
C2 =(B2+B3+B4)/3

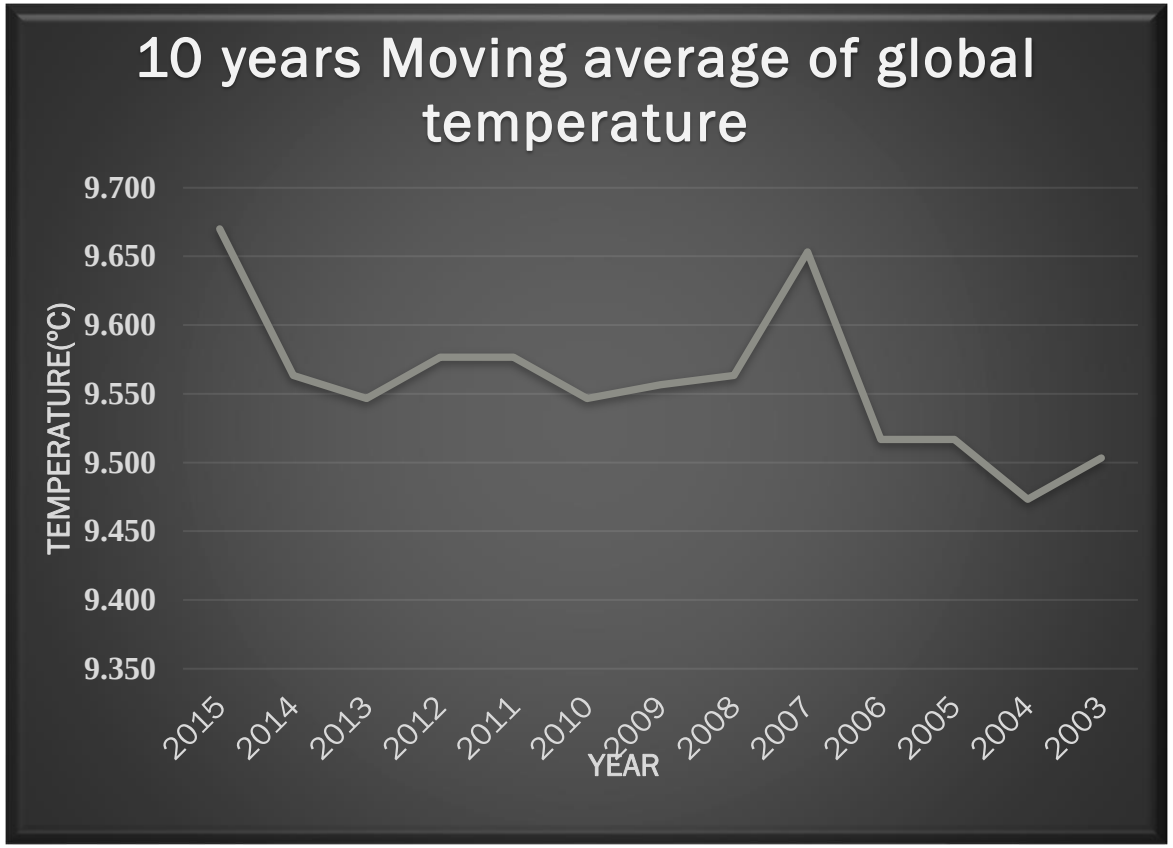
	A	B	C
1	year	avg_temp	Moving_Avg
2	2013	27.57	27.053
3	2012	27.02	26.963
4	2011	26.57	26.923
5	2010	27.3	26.947
6	2009	26.9	26.707
7	2008	26.64	26.547
8	2007	26.58	26.490
9	2006	26.42	26.473
10	2005	26.47	26.623
11	2004	26.53	26.677
12	2003	26.87	26.700
13	2002	26.63	

C2 =(B2+B3+B4)/3

	A	B	C
1	year	avg_temp	Moving_Avg
2	2015	9.83	9.670
3	2014	9.57	9.563
4	2013	9.61	9.547
5	2012	9.51	9.577
6	2011	9.52	9.577
7	2010	9.7	9.547
8	2009	9.51	9.557
9	2008	9.43	9.563
10	2007	9.73	9.653
11	2006	9.53	9.517
12	2005	9.7	9.517
13	2004	9.32	9.473
14	2003	9.53	9.503

Then I used the Excel to visualize the moving average for 10 years





Finally, that is what I observe after working in the data :

- The Average temperature of Mecca city is in (27.0ºC-26ºC)
- The global average temperature is in (9.7ºC-9.3ºC)
- Average temperature of Mecca is increasing from 2011.
- Average temperature of the world in increasing .