

Explore Weather Trends

Outline:

1. Download the date of Nagoya and the world.

Tools : SQL , Excel

SQL queries:

Find country:

```
SELECT *  
FROM city_list  
WHERE country IN ('Japan');
```

Find city:

```
SELECT year, city, avg_temp  
FROM city_data  
WHERE city IN ('Nagoya') AND year BETWEEN '1844' AND '2013';
```

Find world:

```
SELECT *  
FROM global_data  
WHERE year BETWEEN '1844' AND '2013';
```

2. Select the common date(no date in some years).(1844~2013)

Calculate the moving average temperature.

A.cycle time : 30 years

The 1th begin at 1873
end at 2013

B.tool : Excel

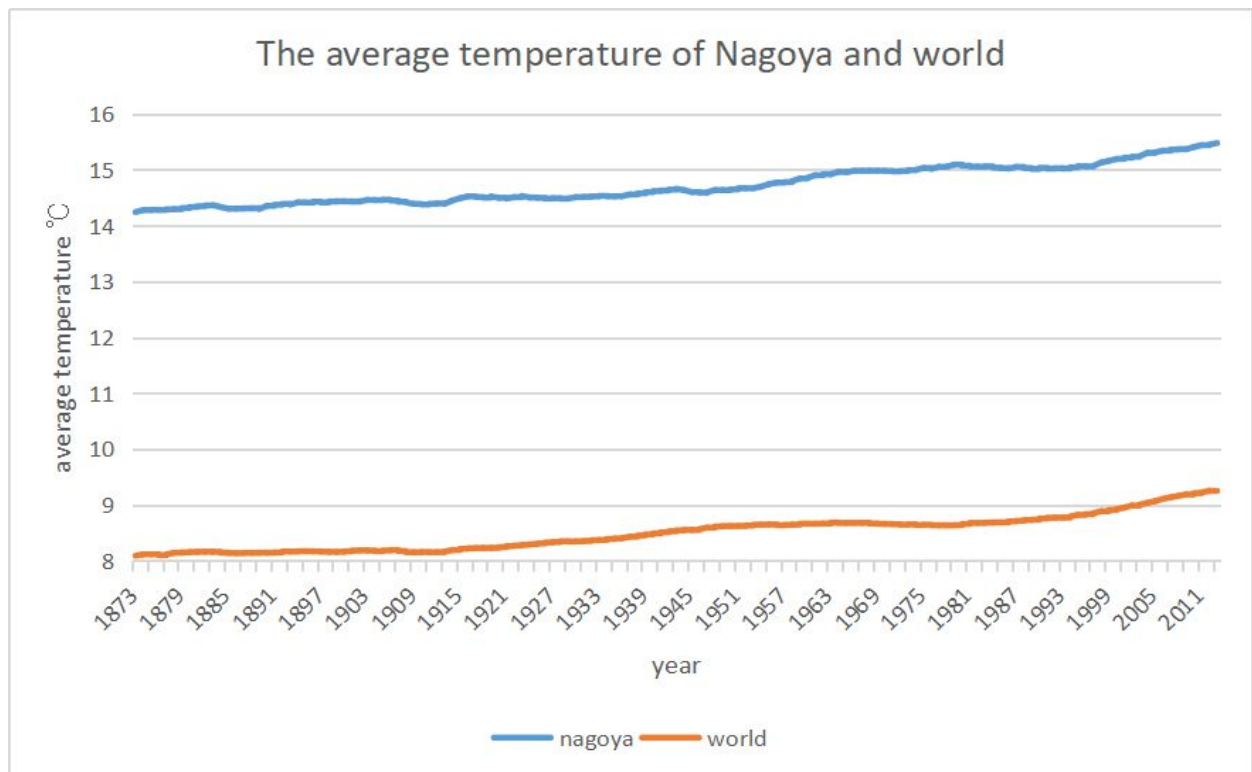
3. Trends visualization

A.Chart elements

B.The number of elements on x-axis and y-axis.

C.Use different color

4. Graph



Find :

1. The average temperature of Nagoya is higher than the world, and it is continued to 2013.
2. The average temperature of Nagoya is getting warmer and warmer, this is same to the world.
3. The variety of Ngoya is bigger than the world.
variety of temperature : Nagoya(14.24=>15.48,1.24) World(8.09=>9.27, 1.18)
4. In the past 100 years, the both of temperature is going up slowly, but it is rising sharply in recent years.