1. **Extracting Data**

   I use Query SQL below to extract data several city in Indonesia that is Bandung, Palembang, Surabaya, Jakarta, Semarang and then extract global data too.

   a. Extract Data Bandung

```
SELECT *
FROM city_data
WHERE city = 'BANDUNG';
```

   b. Extract Data Palembang

```
SELECT *
FROM city_data
WHERE city = 'PALEMBANG';
```

   c. Extract Data Surabaya

```
SELECT *
FROM city_data
WHERE city = 'SURABAYA';
```

   d. Extract Data Jakarta

```
SELECT *
FROM city_data
WHERE city = 'JAKARTA';
```

   e. Extract Data Semarang

```
SELECT *
FROM city_data
WHERE city = 'SEMARANG';
```

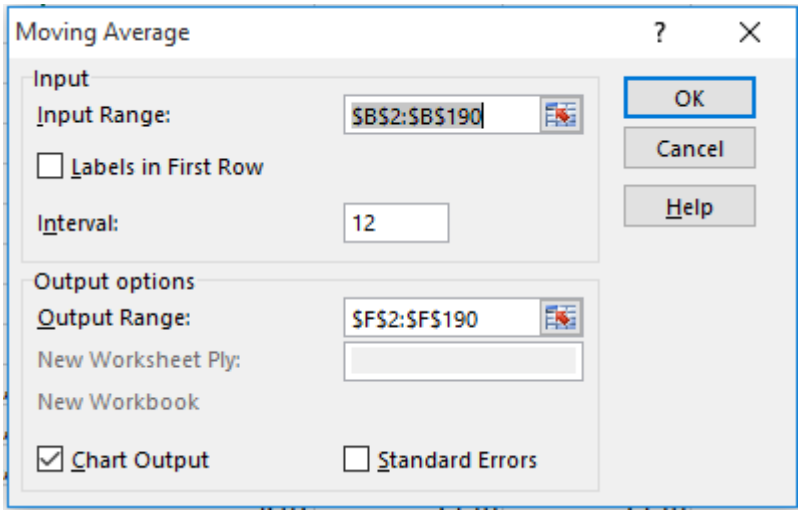
   f. Extract Data Global

```
SELECT avg_temp
FROM global_data
```

2. Moving averages

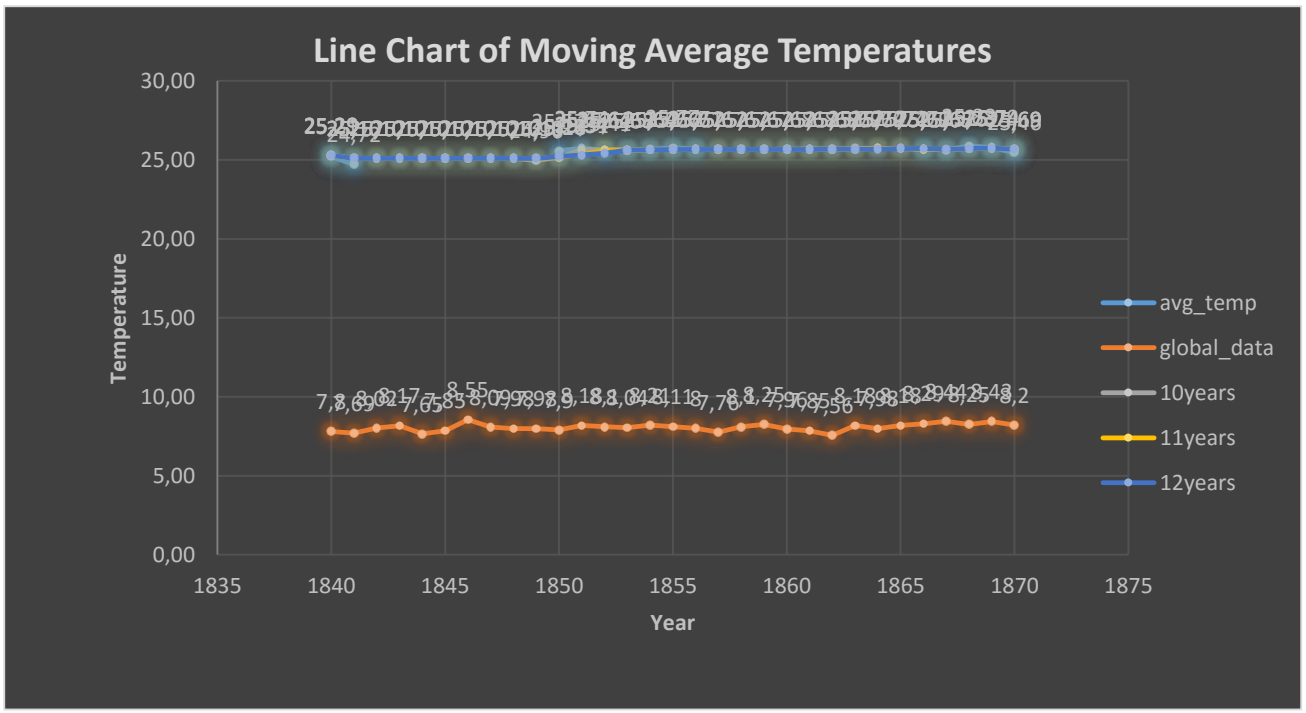
I use a moving average 10 years, 11 years, 12 years from data year, avg_temp. Avg_temp is average from several city Indonesia.

I using Excel formula to search moving average.



Moving_global_data can be seen in excel that I attached. There are I calculated using the excel formula.

3. Line Chart



This chart from 1840 - 1870

4. **Observations**
    a. **Temperature in Indonesia is hotter than temperature global**
    b. **Average temperatur in Indonesia <= 25 while average temperature global data <=10**
    c. **There is no significant movement for local or global temperatures**
    d. **The patern is consistent for several decades**