

The 1st Project Of Data Analysis Nano Degree

Udacity

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Summary :

In this project I analyze and compare the temperature trends in local city (Mecca) to global temperature trends

1.Data extraction:

I used SQL code to extract :

1.1 To show cities

```
Select * from city_list
```

1.2 To extract data of Nearest city (Mecca):

```
Select * from city_data
```

```
Where city = 'Mecca'
```

1.3 To extract global data :

```
Select * from global_data
```

2. Data wrangling :

In city data of Mecca there was missing values of the average temperature between 1846 and 1860 . I decided to remove all the data that have missing values which are the data of 15 years .

3. Data manipulation

I used Microsoft Excel to deal with data and represent it , the moving average was calculated for 5 years so we can observe the pattern .

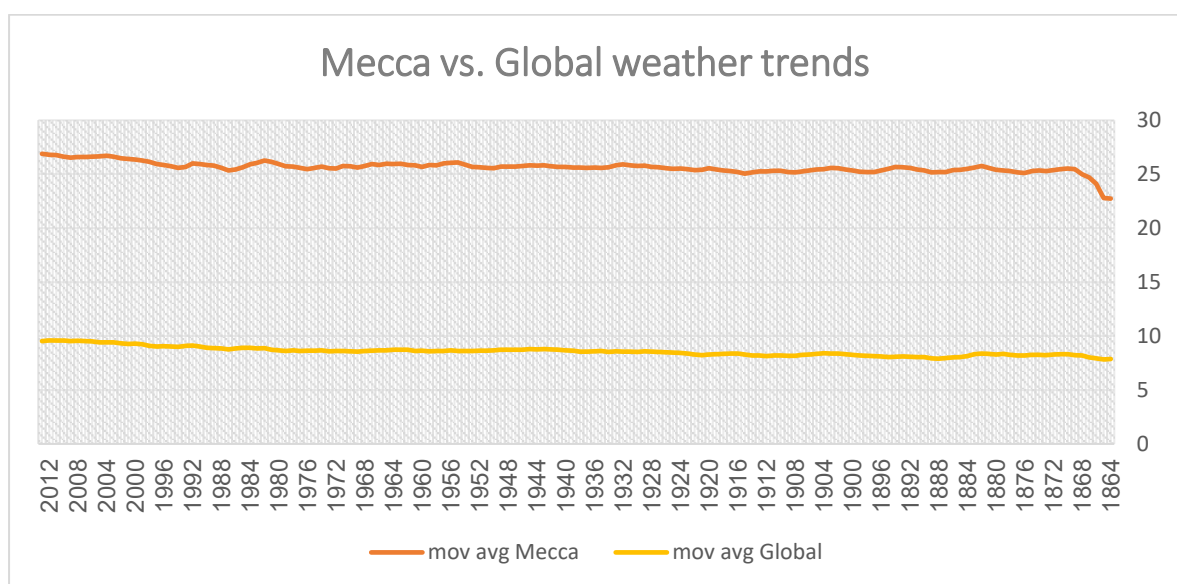
I calculate 5 years moving average using excel formula

= AVERAGE (B2:B6)

= AVERAGE (C2:C6)

Where is column B is Mecca average temperature and column C is Global average temperature .

Data visualization :



Observation :

- both Mecca and Global temperature seems to constantly increasing but, there is more ups and downs in Mecca temperature .
- Mecca temperature is higher than the average of the global .
- Mecca average temperature is between 21 to 27 degree Celsius

On other hand Global average temperature is between 8 to 10 degree , Mecca is nearly 3 times hotter than global average .

