

# Project 1 - Explore Weather Trends

## 1. Extract the Data :

Used below query to extract data for both Hyderabad and Global temperatures

```
select c.city, c.country, c.avg_Temp as Hyd_temp, g.avg_temp as Global_temp, g.year from  
city_data as c
```

```
full outer join global_data as g on g.year=c.year
```

```
where c.city='Hyderabad' and country='India'
```

## 2. Exported data to Excel

## 3. Created Moving Average for Hyd temperature and Global temperature with interval as 2

Using Data – Data Analysis – Moving Average in Excel

Moving Average

Input

Input Range:

☐ Labels in First Row

Interval:

Output options

Output Range:

New Worksheet Ply:

New Workbook:

☐ Chart Output ☐ Standard Errors

OK Cancel Help

## 4. Created a 2D line Chart : Compares my city (Hyderabad Vs Global Temperatures used moving average)

## 5. Observations :

- Is your city hotter or cooler on average compared to the global average?  
**Hyderabad is Hotter on average when compared to Global average**
- Has the difference been consistent over time?  
**Towards 2006 the temperatures increased**
- “How do the changes in your city’s temperatures over time compare to the changes in the global average?”  
**My City’s temperature is in line with global temperatures, both started to become hotter post 2000**
- What does the overall trend look like?  
**Temperatures are slowly increasing over the years**
- Is the world getting hotter or cooler?  
**Hotter**
- Has the trend been consistent over the last few hundred years?

Temperatures are increasing for every 1000 years

