

# Udacity Data Analyst Nano Degree weather project

Sasidhar purum

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SQL code that used to extract the data from data base

```
select gd.year ,cd.country , cd.city , cd.avg_temp as city_temp , gd.avg_temp  
as global_temp  
from global_data as gd  
join city_data as cd  
on gd.year = cd.year  
where country in ('India') and city in ('Hyderabad') ;
```

# Moving average

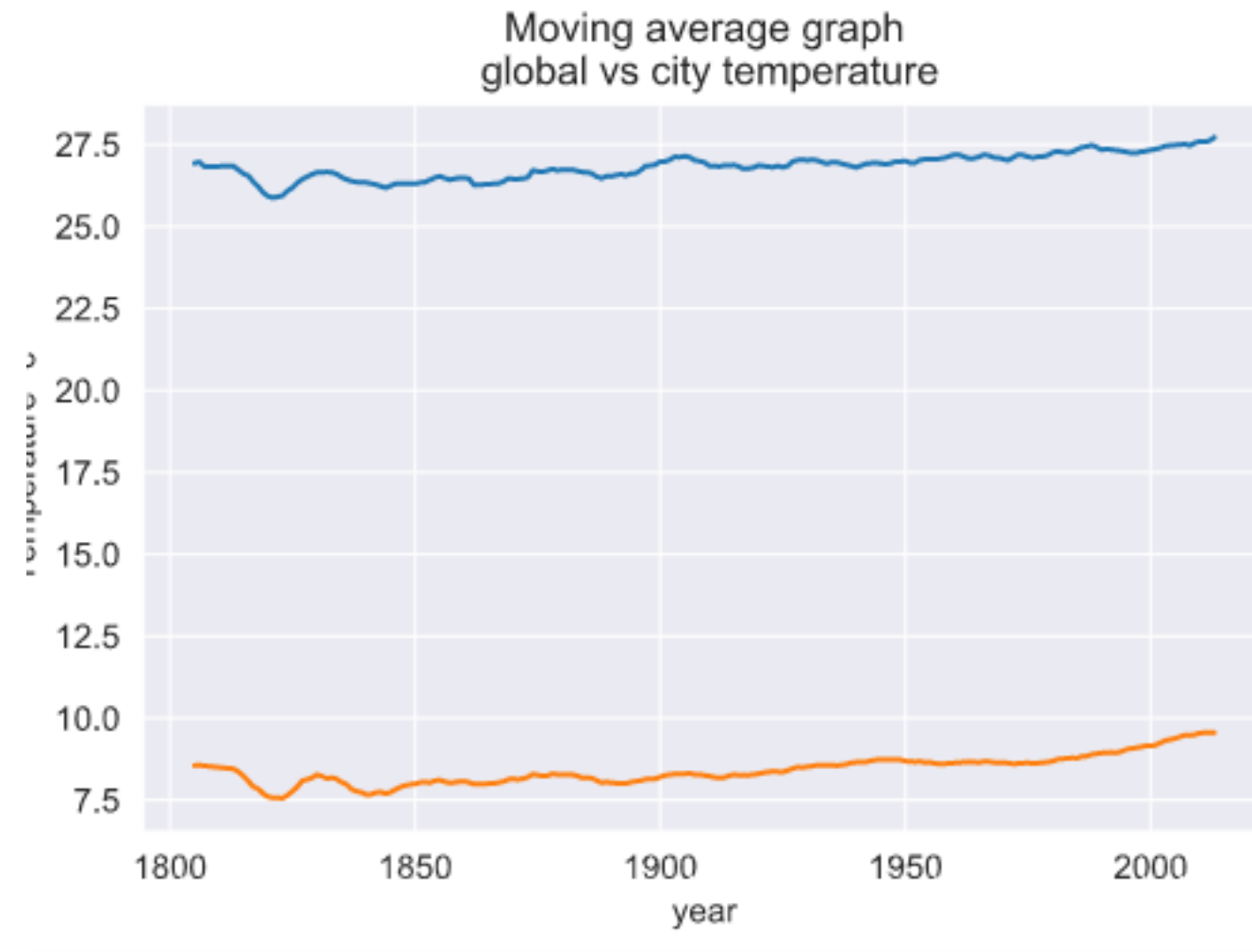
Estimating the moving average

-> cells E4:E50

|     |       |           |       |      |                        |  |  |
|-----|-------|-----------|-------|------|------------------------|--|--|
| 330 | India | Hyderabac | 26.45 | 8.52 |                        |  |  |
| 331 | India | Hyderabac | 26.41 | 7.64 |                        |  |  |
| 332 | India | Hyderabac | 26.63 | 7.45 |                        |  |  |
| 333 | India | Hyderabac | 26.5  | 8.01 |                        |  |  |
| 334 | India | Hyderabac | 26.56 | 8.15 |                        |  |  |
| 335 | India | Hyderabac | 25.8  | 7.39 |                        |  |  |
| 336 | India | Hyderabac | 26.19 | 7.7  |                        |  |  |
| 337 | India | Hyderabac | 26.24 | 7.38 |                        |  |  |
| 338 | India | Hyderabac | 26.33 | 7.51 |                        |  |  |
| 339 | India | Hyderabac | 26.34 | 7.63 |                        |  |  |
| 340 | India | Hyderabac | 26.44 | 7.8  |                        |  |  |
| 341 | India | Hyderabac | 26.12 | 7.69 |                        |  |  |
| 342 | India | Hyderabac | 26.27 | 8.02 |                        |  |  |
| 343 | India | Hyderabac | 26.01 | 8.17 |                        |  |  |
| 344 | India | Hyderabac | 26.08 | 7.65 | =AVERAGE(E40:E50       |  |  |
| 345 | India | Hyderabac | 26.39 | 7.85 | AVERAGE(number1, [numb |  |  |
| 346 | India | Hyderabac | 26.82 | 8.55 |                        |  |  |
| 347 | India | Hyderabac | 26.31 | 8.09 |                        |  |  |

Moving averages graph

The graph describes the moving average  
Temperatures between Hyderabad  
temperature and global temperature



# City temperature vs global temperature

- Global temperature are very less compared to Hyderabad City
- The temperature has increased marginally in past 200 years
- The lowest temperature found for global is around 18 deg C around the year 1820
- The lowest temperature found for Hyderabad city is 25.8 deg C around 1830
- Hyderabad temperature is increasing rapidly compared to the global temperature

