## Puebla vs Global temperature trends

#### R. Angeles

### 1 SQL Data extraction

```
Check the nearest town using

$ SELECT city FROM city-list WHERE country = 'Mexico'

It is Puebla city. Then the local avg temp timeline can be downloaded from

$ SELECT year, avg-temp FROM city-data WHERE city = 'Puebla'

Finally extract global data

$ SELECT * FROM global-data
```

#### 2 Pandas code

# 3 Running avg temperature

Observations on Fig. 1:

- The year temperature has fluctuations which were tamed by applying 10 running average but even over 10 years there seems there are fluctuations for the global and local case.
- Before around 1850 the global temperature fluctuations were larger.
- From around 1850 until now the running average seems to be increasing both locally and globally.

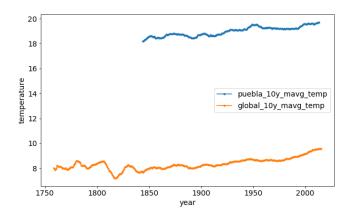


Figure 1: 10 years running average temperature, time series

• The largest temperature fluctuations occur globally and before mid 19 century.