

OUTLINE

SQL queries used to extract the data.

- (0) Query resulted in a list of cities with the option to download a .csv file.

```
SELECT *  
FROM city_list
```

- (1) Query resulted in a list of year, city, country, and average temperature with the option to download a .csv file.

```
SELECT *  
FROM city_data
```

- (2) Query resulted in a list of year and average temperature for Toronto with the option to download a .csv file.

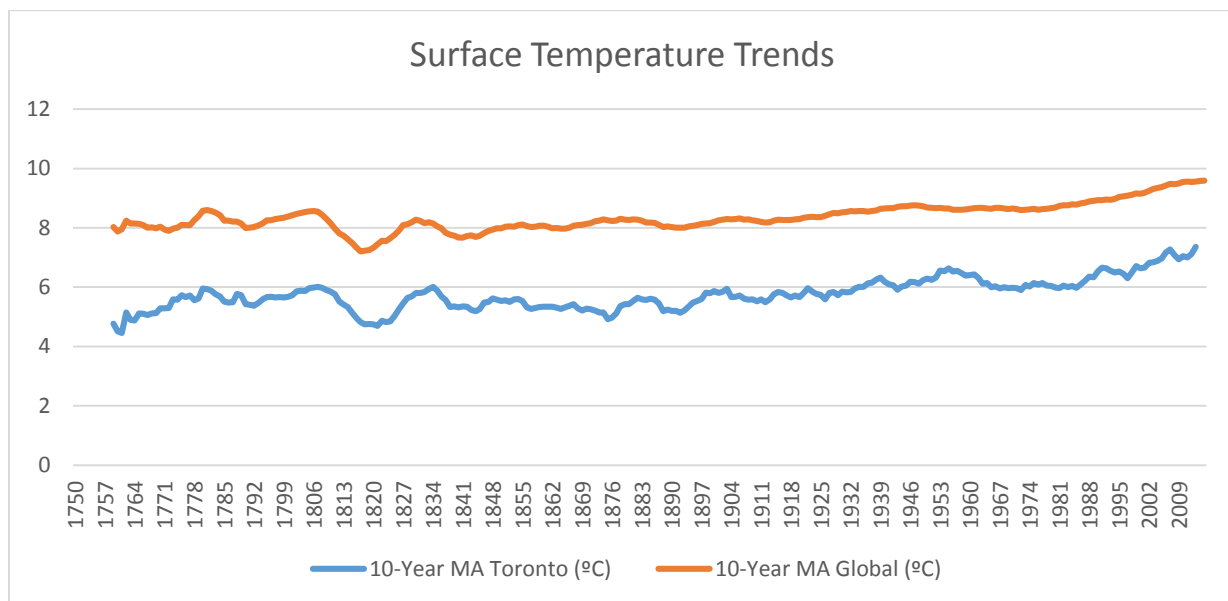
```
SELECT *  
FROM city_data  
WHERE city = 'Toronto'
```

- (3) Query resulted in a list of year and average temperature with the option to download a .csv file.

```
SELECT *  
FROM global_data
```

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Note: Used MS Excel (=AVERAGE(B2:B11) formula) to calculate 10-Year moving averages based on global and city of Toronto's annual average temperatures from 1750 to 2013.



FOUR OBSERVATIONS

- (1) 10-Year moving average surface temperature in Toronto closely follows the same trajectory as the 10-Year moving average surface temperature globally.
- (2) Between 1806 and 1820, surface temperatures declined sharply both in Toronto and globally, though rose sharply in decades that followed.
- (3) Since 1750, the 10-Year moving average surface temperature in Toronto has risen approximately 2.59°C , whereas globally it has risen approximately 1.53°C . This suggests our planet has been getting warmer during this period.
- (4) Surface temperatures – both globally and in Toronto – have been steadily rising since the early 1900s, though there has been a sharp upward trend since the early 1980s, which accounts for the greatest change in recorded history.