Exploring Weather Trends

Data Analyst Nanodegree Project 1

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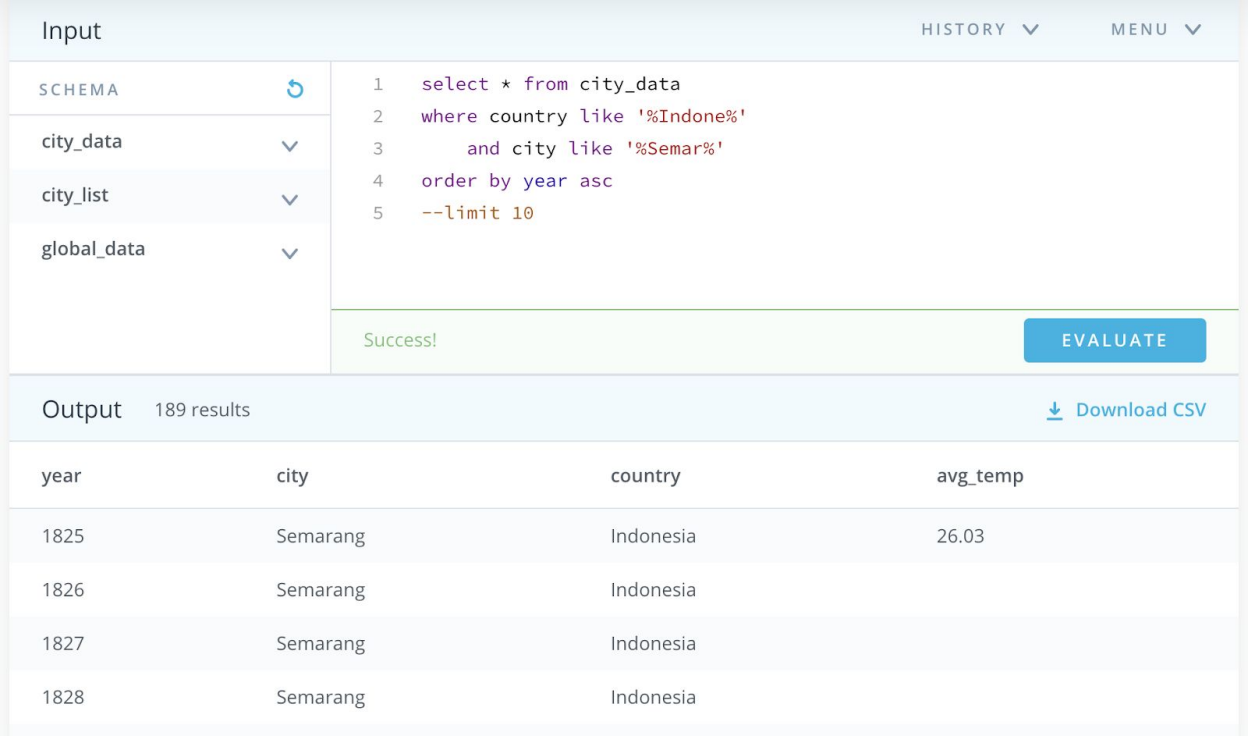
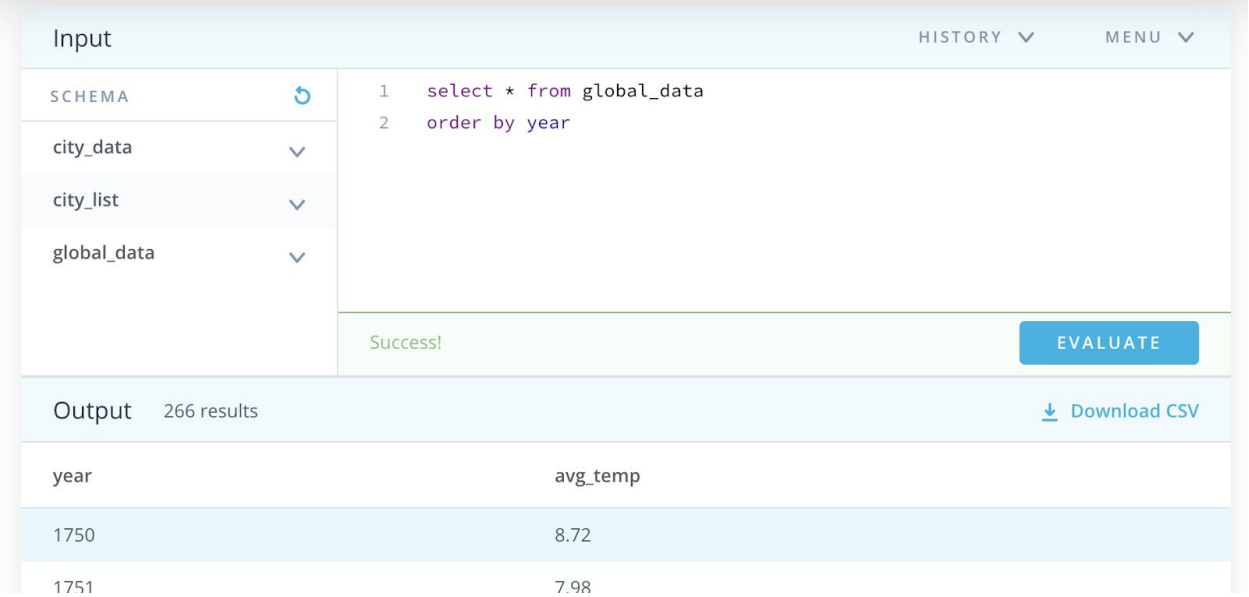
Tools : Google Sheets

- **Extract Data from SQL**

  Query SQL from table city_data to find which is closest to where I live (Semarang, Indonesia). Result : 189 row data (year : 1823-2013)



  Query SQL from table global data. Result 266 row data (year : 1750-2015)

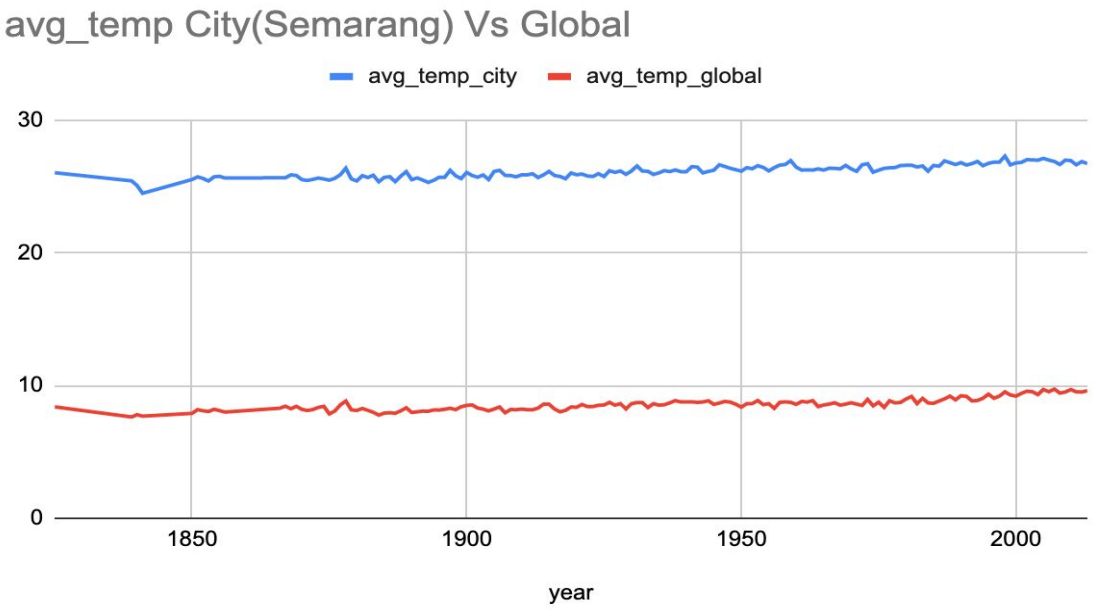


- **Open up the CSV**

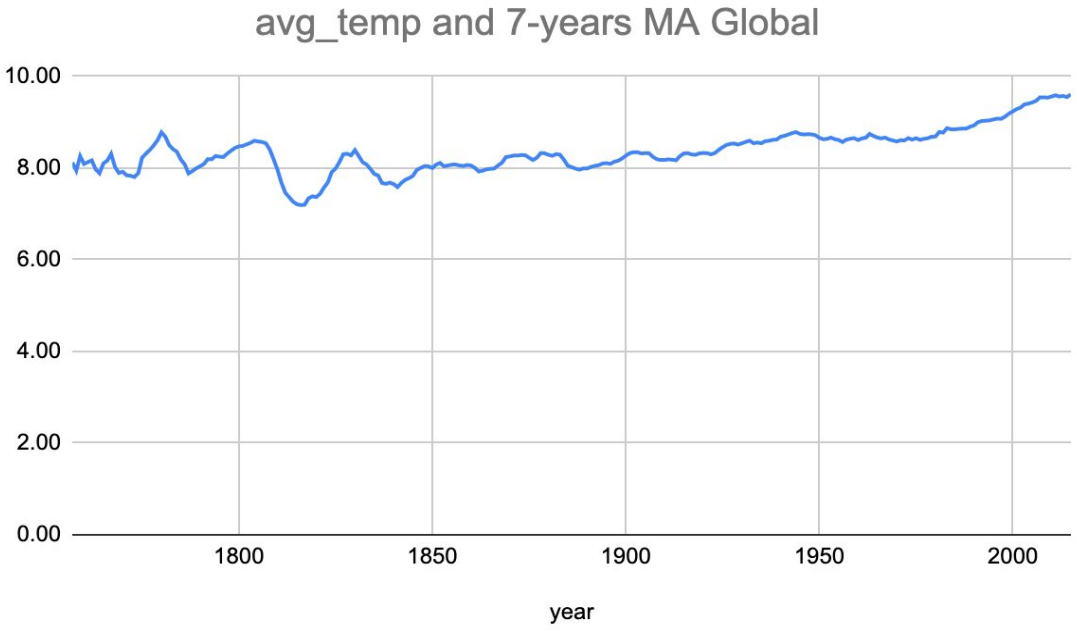
  Open csv data with tools Google Sheets

- **Create a line chart**

  Create a line chart to compare between city_data (Semarang, Indonesia) and global data. Delete row from city_data where the row is null.



  Define Moving-Average with 7-years and create column `7-years MA` for global_city. create a line chart from column `7-years MA`.



- **Make observations**
    1. Average temperature Our City (Semarang, Indonesia) weather is hotter than global average temperature and the difference has been consistent over time.
    2. Semarang's temperature and global temperature is gradually increasing over time.
    3. Trend global temperature is gradually increasing to hot over time. The trend been consistent over the last few hundred years.