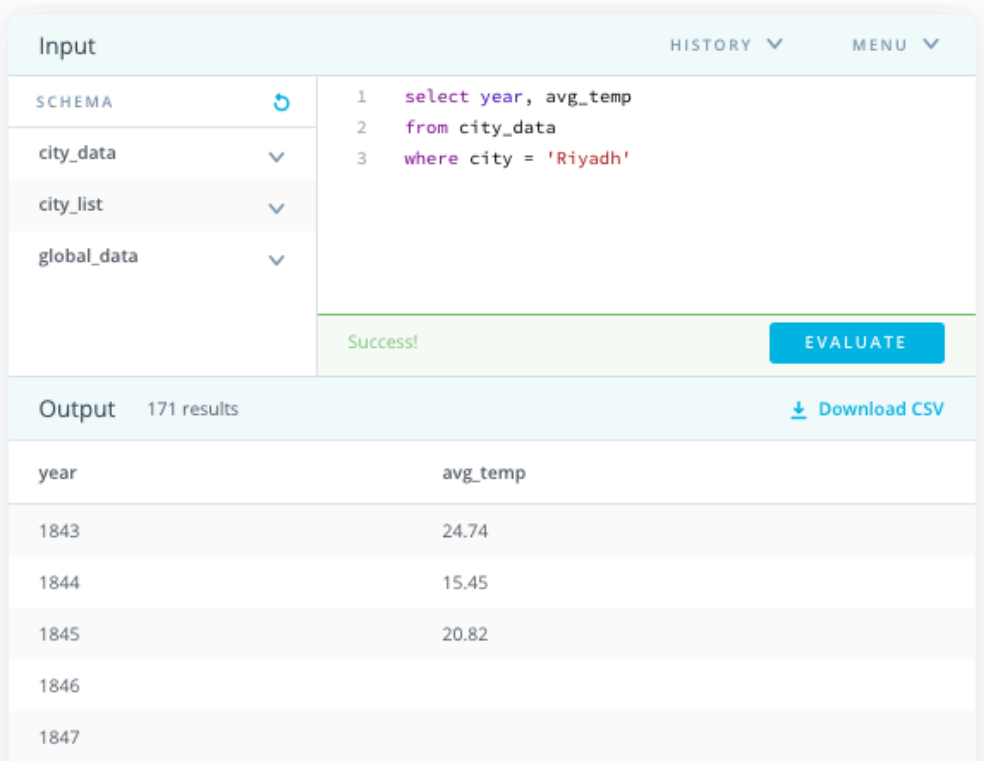
Project of Explore Weather Trends

Extracting the data:

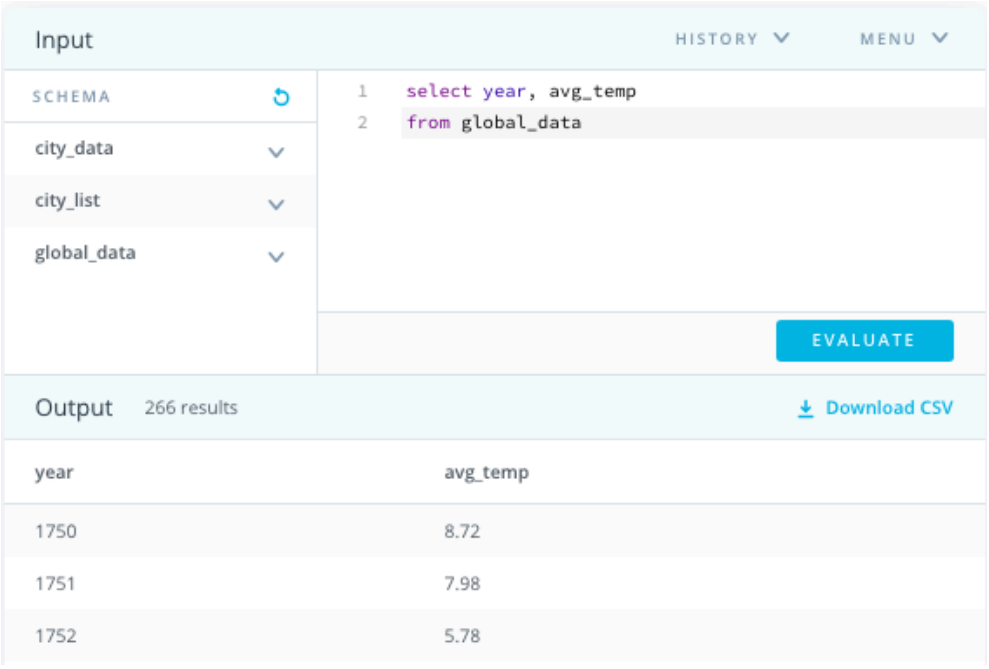
I used the SQL Workspace to extract data.

Then download the results and used excel application to make schedule and calculate moving average directly. And the last I make a Graph.

- Riyadh_data - This contains the average Riyadh temperatures by year (ºC):



- global_data - This contains the average global temperatures by year (ºC):



- Moving Average calculation was found using the sum of temperature average the past 5 years before the current year divided by 5.

Global	Riyadh	Year	Global	Riyadh
avg_temp			5 Years avg_Moving	
7.91	25.83	1980		
8.09	25.95	1981		
8.32	24.62	1982		
7.97	24.85	1983		
8.02	25.05	1984		
8.07	25.3	1985	=(C9+C8+C7+C6+C5)/5	

We achieved some conclusions are made by monitoring the annual temperature for (Riyadh) city and comparing it with global temperature.
We noted following:

- As we can see in the line chart that the average temperature change until 2013 in Riyadh is the same as the global average which is 19 degrees.
- Secondly, the global temperature has not change in the last 20 years where's in Riyadh it has increased by 2 degrees.
- Thirdly, it shows that the temperature in Riyadh keeps changing increasingly.
- Fourth, the global temperature is somewhat stable as shown in the line chart

- **Line chart** with local and global temperature trends