**Projekt: Explore Weather Trends**

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**Outline**

1. Extract data with SQL using the following commands:  
   SELECT year, avg\_temp FROM global\_data ORDER BY year

and

SELECT year, avg\_temp FROM city\_data WHERE city = 'Munich' ORDER BY year

1. Export the data to \*.csv
2. Import the data to Excel
3. Join the data using the years-column in Excel
4. Calculating the 10-years moving average in Excel like you showed us (taking the average of the last 10 years, including the current year)
5. Drawing the line charts with both global and city moving average temperature data

**Conclusions**

The global average temperature is higher than the average temperature in Munich. The global average temperature is 3-4 °C higher than in Munich. Both the global and the local temperature increase since the beginning of the 20th century. It looks like the world is getting hotter. The difference between the local and global average temperature seems consistent over time. The correlation coefficient between the global and local average temperature is r=0.87, which indicates a high linear correlation.