This summer it was very hot in Berlin!
Since we are the BI Team, we want to substantiate this vague claim with numbers.
Your task is to provide a data source that permits this and possibly other investigations.

The task

Write a client for the Dark Sky API (https://darksky.net/) and the definition of a DB schema that allows storing historical and forecast data about temperatures in one or more cities.
Formalize the initial claim ("This summer it was very hot in Berlin!") and propose a reporting procedure that uses the collected data to corroborate (or falsify) it.

Deliverables

- A procedure that can be called to fetch historical and/or forecast data about temperatures and store it in a database.
- The description of a procedure that keeps this database automatically updated for a set of cities (we don't ask you to implement this part of the system: just provide requirements and specifications for the architecture).
- A reporting procedure that uses this collected data to build a summary report that a stakeholder, or someone else outside of the BI team, can use to evaluate the initial claim "This summer it was very hot in Berlin!"
- If you have ideas about other uses for this data, we would be very happy to hear them! Feel free to include the implementation or the specs for any additional usage you think this data permits.

Details

- The Dark Sky API provides a free tier for testing: https://darksky.net/dev/register.
- You can use any tool and programming language you want. Please provide instructions on how to install and execute your code.
- We calibrated this task to be doable in ~4 hours. You have 1 week to send us your results. Please send us a single zip file with code, instructions for installing and executing it, and any additional documents you might want to include.
- We will examine your work, reviewing and testing the code and the documents you provide, and the outcomes will be addressed in the next interview round.
- In case of doubts or problems, we, Jess and Stefano, are very happy to help, but feel free to add assumptions and additional specs as needed.