I. Download data

Go to Kaggle and download the “Historical Hourly Weather Data 2012-2017” data set. (Press the “Download” link near the “New Kernel” button.)

II. DB

Choose a database for this exam. You may use any open source database that has a publicly available docker image. Choose a DB that is suitable for the tasks below. Explain why you chose that specific technology.

III. load_wind_data.sh

Write a script called “load_wind_data.sh” that loads the “wind_direction.csv” and “wind_speed.csv” files into a database. The script may call a program written in another common language, if you prefer.

IV. update_wind_data.sh

Write a script called “update_wind_data.sh” that updates the database with new or updated wind speed data (no need to do it for wind direction), whenever a new data file arrives in a given directory (it may sleep for intervals).

V. query.sh

Write a script called “query.sh” that lists all time-stamps that the wind speed in Jerusalem went above the 5 day moving average in Jerusalem.

VI. Send

Send us the following files, together with anything that we need to know in order to test your answers:

- load_wind_data.sh
- update_wind_data.sh
- query.sh
- any other script that the above are calling