

Homework 2

Preparation:

Use the Python script to create and load a database with weather data from several European weather stations. The data is not clean and some stations are missing certain values. I obtained it from Kaggle.

In the following, use SQL commands to do the following tasks. Hand in the SQL statement and the head of the result, if it exceeds more than 15 entries.

Problem 1:

Find all days and stations where the pressure is unrealistically low or high.

Problem 2:

Create a list of all stations.

Problem 3:

Find all days and stations where the minimum temperature is larger than the maximum temperature.

Problem 4:

Find the number of entries where the minimum temperature is larger than the medium temperature. (Hint: Look up COUNT).

Problem 5:

Find the locations and days where the sunshine is larger than 10 hours, but the precipitation is larger than 5.

Problem 6:

Find the days and locations where the humidity is less than 0.5 (i.e. 50%) and precipitation is at least 1.

Problem 7:

Find the largest cloudcover in the set.

Problem 8:

Find the date and location of the records where the cloud cover is at a minimum. (This gives you bad records).

Problem 9:

How often is the number of sunshine hours larger than 14?

Problem 10:

Find the maximum sunshine for days and stations where the precipitation is at least 1.