

## Worksheet 8

Considering the following three tables that we have seen in the context of the taxi mobility dataset:

- taxi\_stands;
- taxi\_services;
- cont\_caop\_aad2018.

1. Model a star-schema for a simple 3-dimensional data warehouse with dimensions:
  - Time, with a conceptual hierarchy (hour, day, month);
  - Taxi;
  - Location, with a conceptual hierarchy (taxi\_stand, parish, municipality).and a single measure (number of trips).
2. Implement the data warehouse tables of the previous question and populate them with data extracted from the original tables.
3. Using Postgres's group by cube and group by rollup, produce SQL queries that analyze the data stored in the data warehouse modelled in the previous question.