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Exercise Sheet No. 6 - Database

Energy Informatics

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Submission deadline: 08.02.2017, at 11:15 a.m.

Using *power_consumption* database, for each of the following exercises, submit the sql query [1] and the corresponding results. Make sure to deliver only the requested information!

Exercise 1: Join variants (3 pts)
Using one of the join variants, find unique city names where at least one of the city households doesn't have a reading. Don't use subquery.

Exercise 2: Subqueries (2 pts)
Use at least one subquery among other SQL techniques to find unique city names where at least one of the city households doesn't have a reading.

Exercise 3: Set Operators (2 pts)
Find the complementary city set to the set of cities you found in the previous query. Give a different textual description of this set of cities.

Exercise 4: Aggregation and Grouping (3 pts)
Employ aggregation functions and grouping among other SQL techniques to answer the following requests:

- For each city (city name), what is the average household's space
- For each city (city name), what is the average number of households per building

[1] It should be only a single query that delivers the requested results!