

Mobility Data Analysis

Assignment 1 - Spatial Databases

Express in SQL and display the result in QGIS (including all layers mentioned in the query, as well as the background map).

Q1 Provinces and rivers such that the rivers are completely inside the province. We need two layers, in order to show both geometries.

Q2 Cities and rivers at a distance less than 1km

Q3 Show the rivers longer than 160 Km, and the districts they cross

Q4 Draw a 10KM buffer around the rivers that cross the province of Antwerpen

Q5 Build a new geometry as the union of the buffers obtained in Q4 and compute the area

Q6 Compute the longest road by province

Q7 The Dyle river can supply water to cities that are within 30 km. List the cities that can use water from this river.

Q8 List all districts, ordered by number of neighboring districts.

Q9 Draw a line between cities in Flandes and Wallonia, less than 30KM away from each other