



Query service

- 1. Based on the name of the data source (for example wage-dataset). The microservice can find out whether it is a CSV file, Mysql database or something else. (there would be some key-value store with that data)
- 2. If it is CSV, it needs to load the file into a sqllite DB. However, it would be good to save the csv hash and sqllite hash somewhere to compare so that this is only done if the CSV changes.
- 3. The provided query is executed, and the results passed to the next Microservice in JSON format
- 4. Nice to have: Caching of sql results

Anonymize service

- 1. Recognize a type of anonymizing (Generalization, Masking or Perturbation), and get the columns of which this should be done.
- 2. The anonymization should identify the datatypes and take appropriate action (for example a birthdate can be in different formats)
- 3. After doing the work it should pass it on to the next microservice

Algorithm service

- 1. Accept JSON from the previous microservice.
- 2. Create generic functions that can calculate things like average, sum, graph, etc.
- 3. Based on the column input and request it can calculate these things
- 4. This should work for different type of datasets and columns.

Graph service

- 1. Convert data to a type of graph based on request and the github.com/go-echarts/go-echarts package
- 2. Convert the bar chart to SVG/PNG to send in the response or next MS.