

EU Procurements

With MongoDB

Basic Idea of Project

- Connect to a remote MongoDB database server and compute 33 distinct queries. The exact queries are listed in the accompanying file “EU Procurements Project.pdf”.
- After coding the specific queries, these queries were placed into a Dash dashboard that visualized and performed the remote queries in real time. As the queries were computed in real time, the speed of the queries was taken into account when programming them.
- A final task was creating a query to insert a new document into the existing MongoDB database, which was again created with speed in mind.

Skills Learned

- Working with financial / construction contract data from a very large dataset spanning many European countries and many years.
- Learning to choose between improving runtime speed through indexing or improving initial load times through less eager indexing.
- Working with a remote MongoDB (no-SQL) database and performing queries / inserting new documents.
- Displaying and running the queries in an interactive visual rather than a user-unfriendly notebook.