Information Retrieval Seminar Work

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1.About Document

Document was downloaded from this link.
It has the information about price of Mercedes-benz austria edition in 2024.

There are 17 kinds of cars. The total number of options of each car is 45.

2.Using Tools

- Python
: It supports multiple programming paradigms, has a vast standard library, and is widely used in web development, data science, AI, and automation.

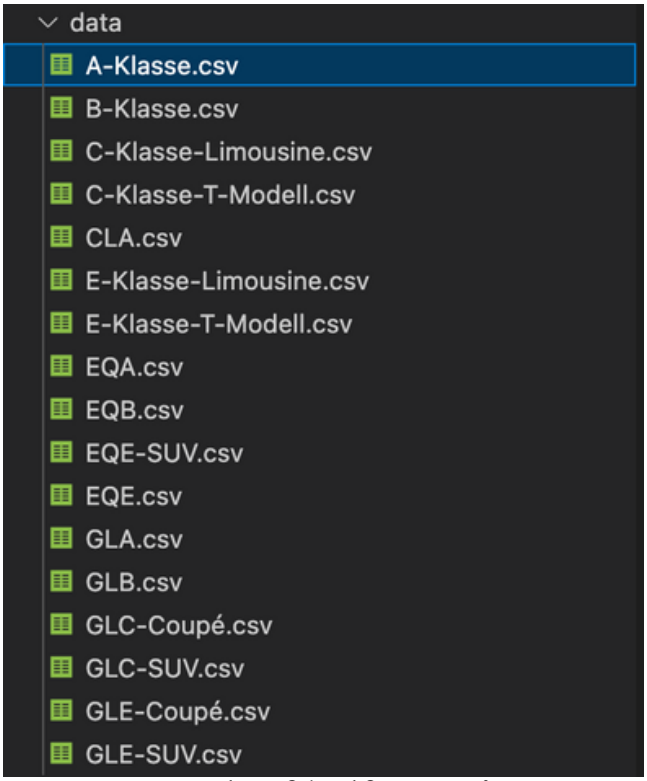
- Jupyter Notebook
: It is a web-based tool for interactive coding and documentation. It lets you combine live code, visualizations, and text in a collaborative environment, commonly used in data science with a focus on Python.

- Apache Solr
: It is an open-source search platform based on Apache Lucene. It enables efficient indexing and searching of content, commonly used for applications requiring powerful search capabilities, such as in e-commerce and content management systems.

3.Procedure

1) pdf to csv

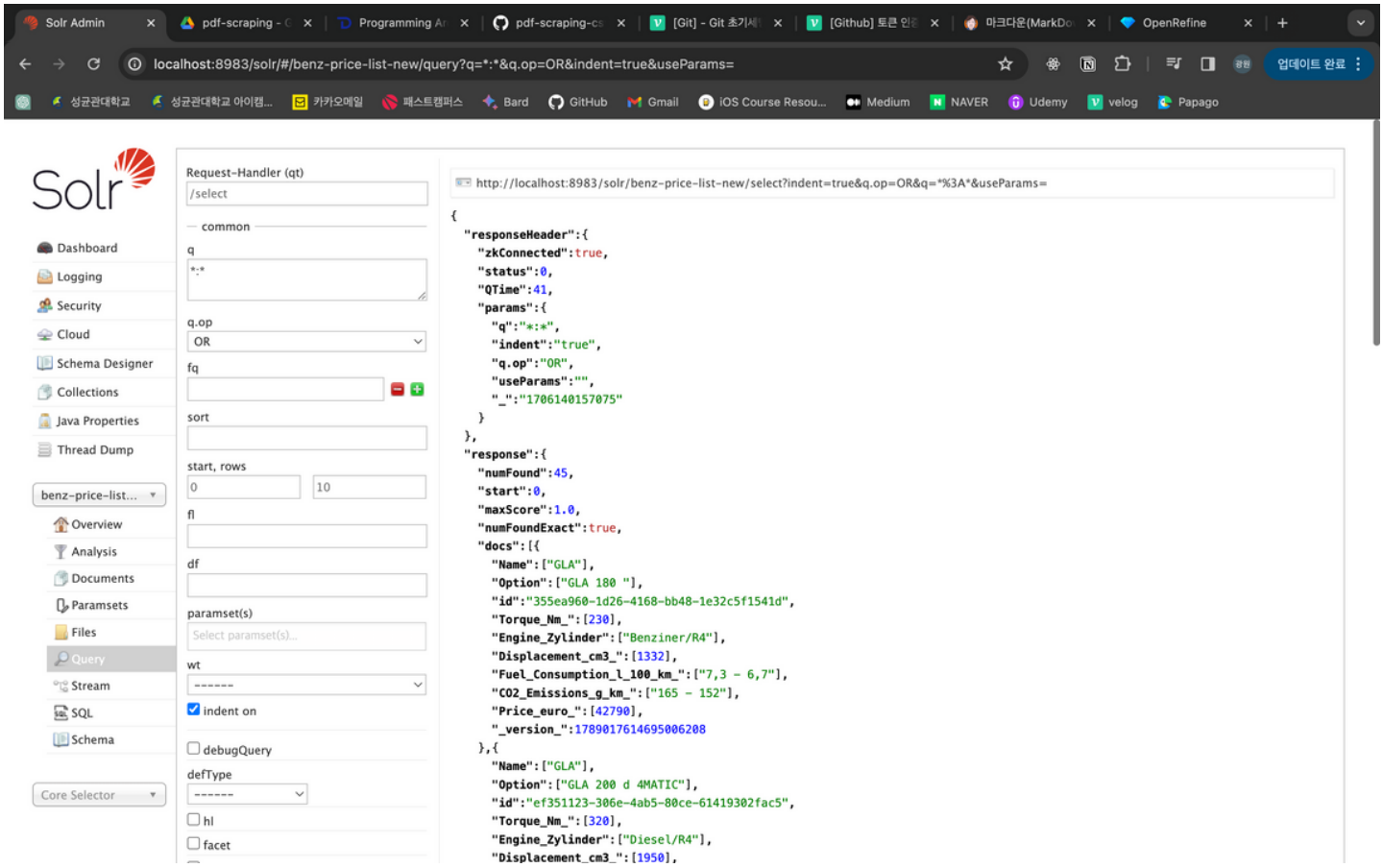
1. Parse the file using ‘tika’ module.
2. Create dictionary for each model.
3. Extract information using ‘getSome’ module which I made or by hand.
4. Export dictionary using ‘pandas’ module.



<result of 'pdf to csv'>

2) Indexing data

1. Start Solrcloud.
2. Create collection.
3. Generate Catchcall Copyfield.
4. Index the data.



<result of 'Indexing data'>

3) Searching

1. Import 'pysolr' module.
2. Search using '.search' method.
3. Get answer using 'answer' module which I made.

```
For ['EQA 250 ']
 Battery Capacity is [66.5]kWh
 Max Torque is [385]
 Drive Range is ['457 - 525']km
 Price is [49990]euro
For ['EQA 250+ ']
 Battery Capacity is [70.5]kWh
 Max Torque is [385]
 Drive Range is ['497 - 559']km
 Price is [52990]euro
For ['EQA 300 4MATIC']
 Battery Capacity is [66.5]kWh
 Max Torque is [390]
 Drive Range is ['412 - 457']km
 Price is [54990]euro
```

<result of 'Searching'>

4.Limitation

- I didn’t host it and make webpage for general users.