Information Retrieval Seminar Work

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gitlab: https://gitlab.web.fh-kufstein.ac.at/seo_gwang_won/pdf-scraping-csv

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.

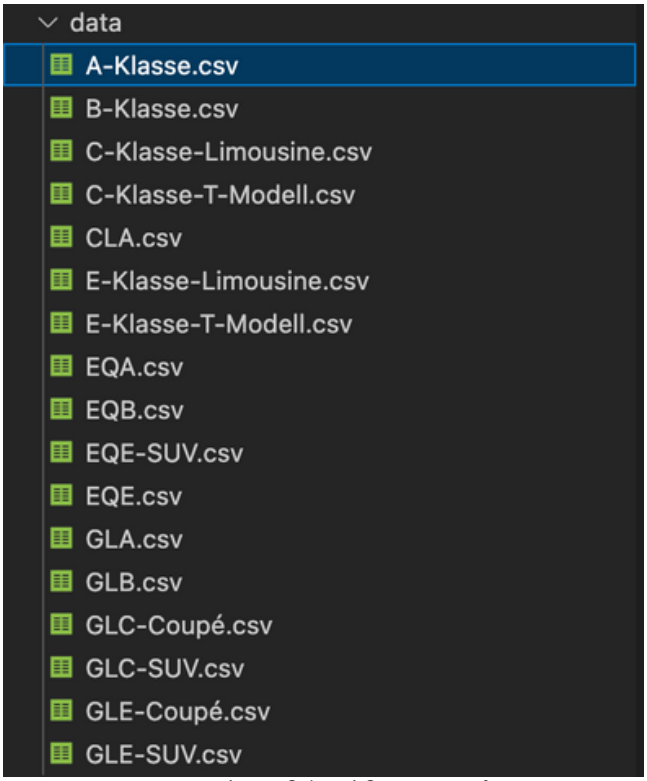
- Jupyter Notebook
: It is a web-based tool for interactive coding and documentation. It lets you combine live code, visualizations, and text in a collaborative environment, commonly used in data science with a focus on Python.

- 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

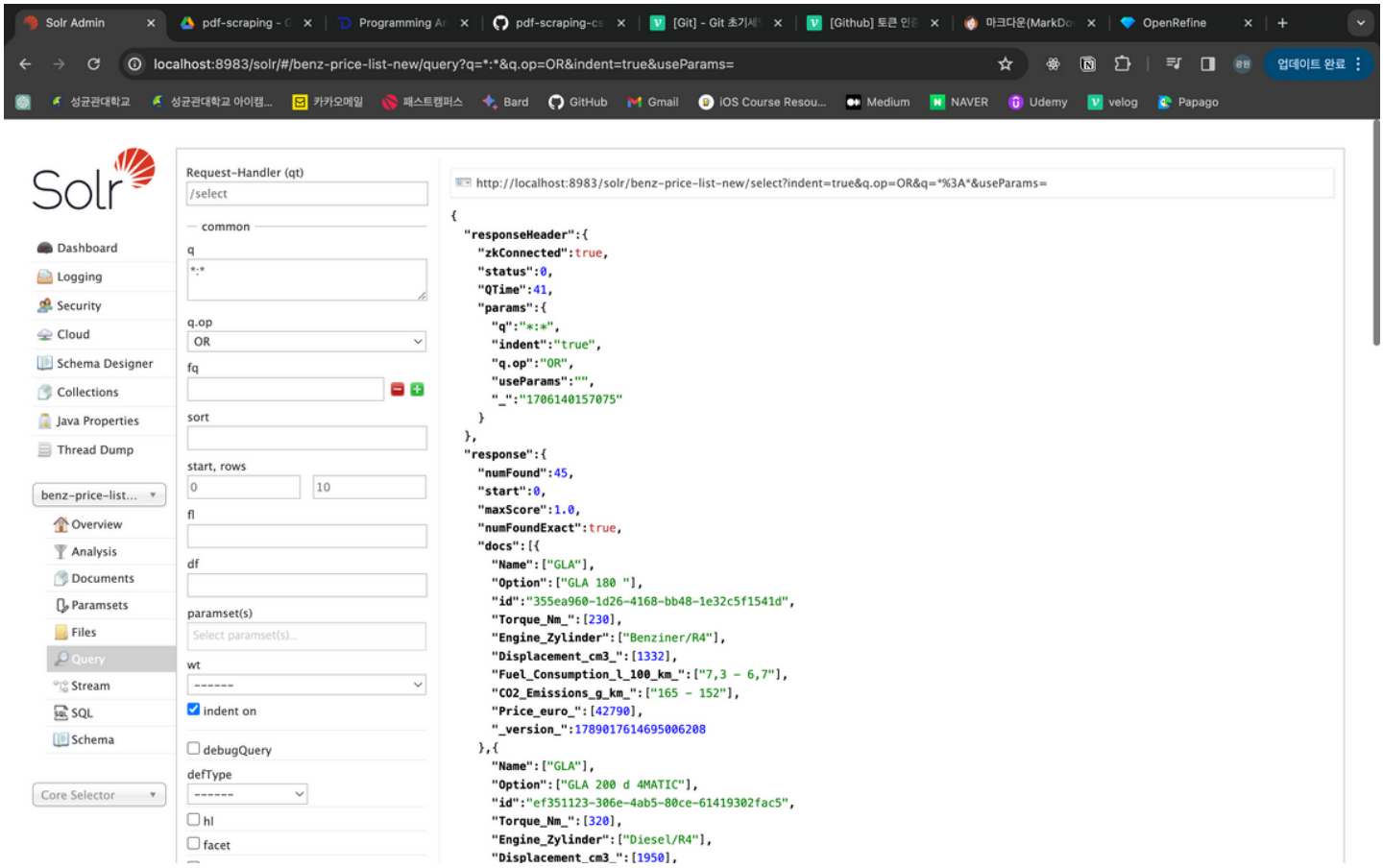
1. Parse the file using ‘tika’ module.
2. Create dictionary for each model.
3. Extract information using ‘getSome’ module or by hand.
4. Export dictionary using ‘pandas’ module.



<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.

```
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.