AET Interview Questionnaire

1. Table of Contents

2. ETL, modeling and visualizing data.

2.1. Part 1: Data Collection

URL to scrap:

1. https://people.sc.fsu.edu/~jburkardt/data/csv/airtravel.csv (CSV data)
2. https://jsonplaceholder.typicode.com/todos (JSON API)
3. https://www.sqlitetutorial.net/wp-content/uploads/2018/03/chinook.zip (SQLite)
4. https://zuscoffee.com/category/store/melaka (Web Scraping)

Choose one of the URLs above and perform data collection using Python script, load it to local.

2.2. Part 2: Transformation

For the data collected, provide and perform any possible transformation processes, and explain why such transformation needed.

2.3. Part 3: Loading

Load the transformed data into any database of your choice using Python.

P/S: Brownie point will be given if you can load it to MSSQL as there is a project primarily working with MSSQL.

2.4. Part 4: Data Modeling

Create a simple data models with possible columns based on extracted and loaded data. Provide a star schema of how the data models would look like.

2.5. Part 5: Visualization

Visualize the data using any tool of your choice whether Excel or Superset or any other tools.

Submission

- Submit all the source code.
- Provide the link to a hosted version of the solution (if possible).
- A detailed README.md file.
- Preferable python version3.8-3.11
- Please omit all api keys/ secret when pushing to git or when you share the code. Submit to aghilan@abyres.net, izhar@abyres.net (cc to hr@abyres.net)