DLP-Product Requirements Doc

A Product Requirements doc focuses on the users' idea of what the finished product should do.

Nintro & Goals

The Data Lake Project is an ETL exercise on different forms of Data Lake data. Using Python Pandas, Jupyter Notebook, Seaborn we clean, unite, and explore data from CSV, JSON, to SQLite, here are some KPIs we would like in our Data Warehouse:

- View Extracted and Cleaned any datasets provided from the Data Lake
- Clear understanding of data without extra joins or merges from Data Lake
- ✓ Have unnecessary columns or rows of data removed that do not add value in analysis
- Ability to guery for meaningful information on all datasets

M Who's it For?

The Data Lake ETL project is meant for Data Analysts and Data Scientists who are looking to create information and findings from a polished Data Warehouse.

Why are we Building it?

To practice manipulating and altering data in a real-life scenario. The variation in data topics shows the range of the technologies used for cleaning and presentation.

© Expected Results

Users to find data in Warehouse

- Easy to use
- Easy to query
- Easy to draw conclusions from

Product Requirements

Columns of data reflect exactly what our data model should contain (no more and no less)

- Contain models that are hand-selected to be useful in relation to the vast data we have in our Data Lake
- Present Schemas and Models that help guide user direction in different Lake connections

User interaction and design

Example of Joins and Filtering out Columns for our Warehouse consumption:



Open questions

Where would we like to store our Data Warehouse?

What other forms of data would we expect to perform ETL on?

What other technologies can we utilize to enhance or optimize the ETL process of a Lake? Are we following industry standards in formatting and design patterns?