Meteorite Study

The workflow shown below shows the basic path our meteorite data takes to reach the final dashboard.

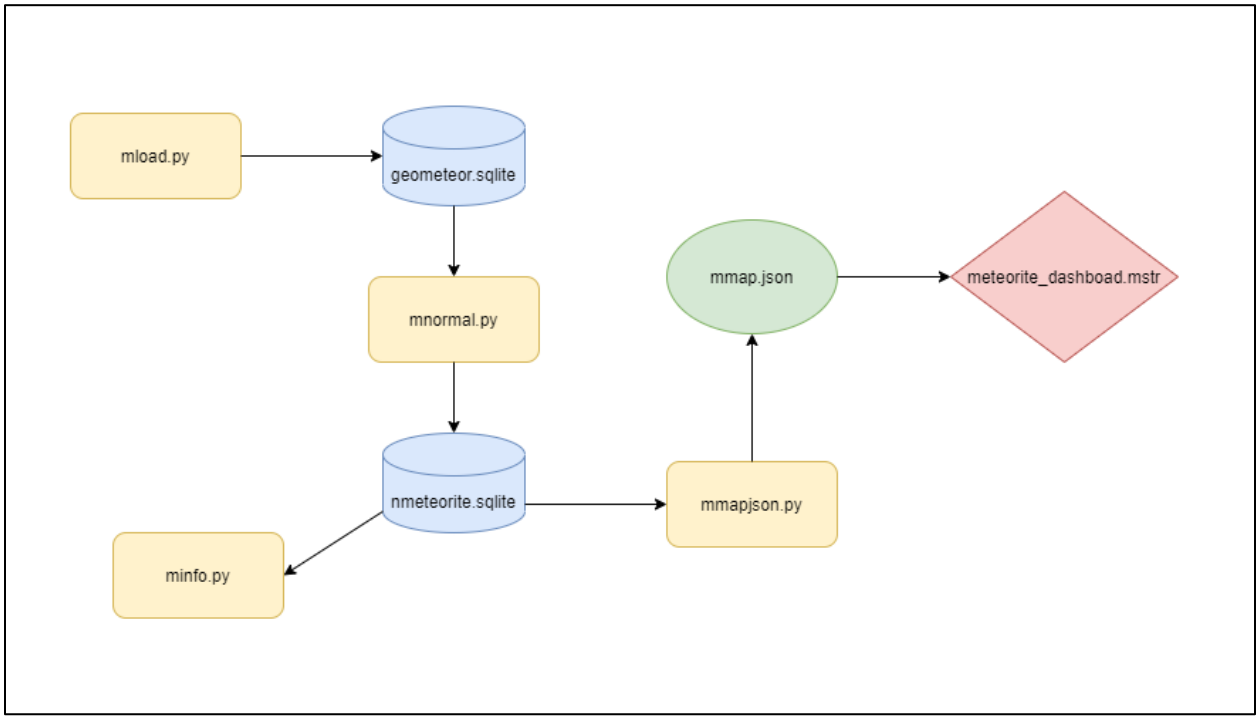

Figure 1: Load data from API into database. Normalize database. Print information on data. Create json and visualize.

The Python file mload.py connects to a NASA JSON API, creates a single table database, and fills it with all available data. There are over 45,000 data rows of data.

mnormal.py normalizes the data by creating 4 tables, Landings, Nametype, Class, and Fallstatus. Then filling them with the appropriate data and assigning the necessary ids. Normalized ERD shown below, Figure 2.

m.info.py pulls from nmeteorite.sqlite and shown information about each table. For example, how many types are in the Nametype table. Mmapjson.py converts the data need for our dashboard into a json file to be used by meteorite_dashboard. Shown in Figure 3.

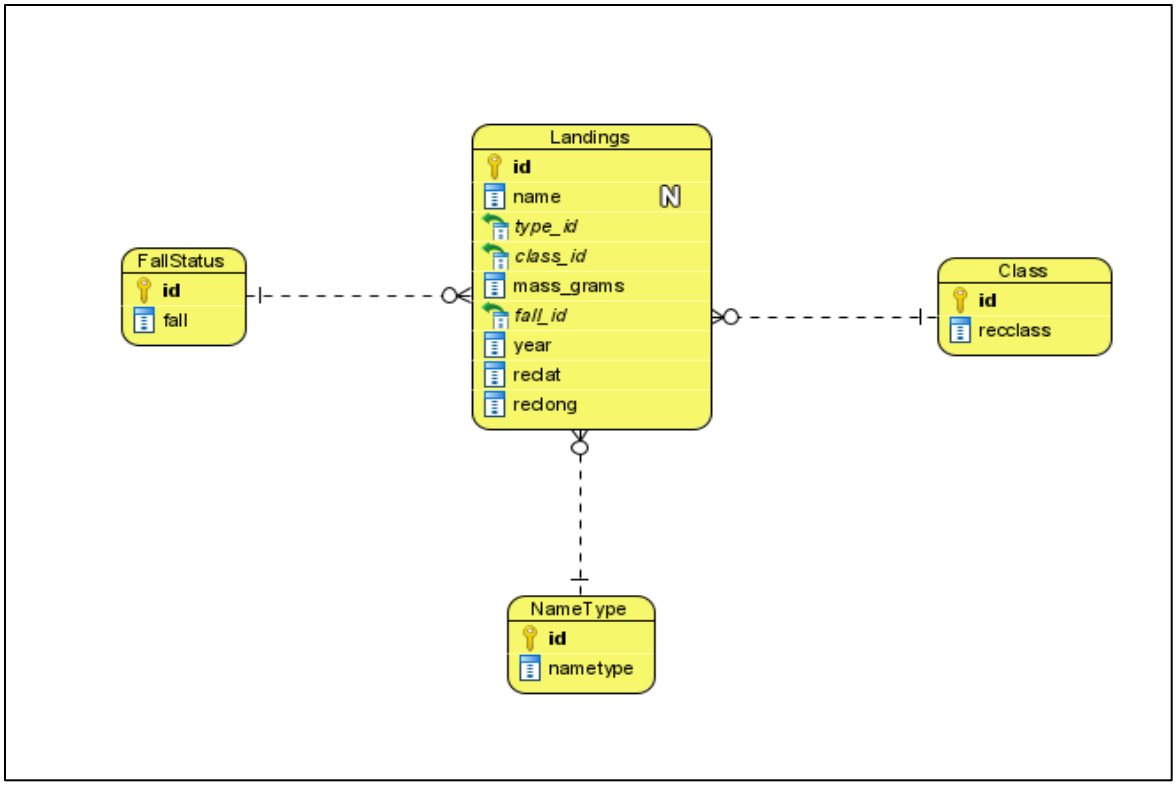

Figure 2: Normalized meteorite database

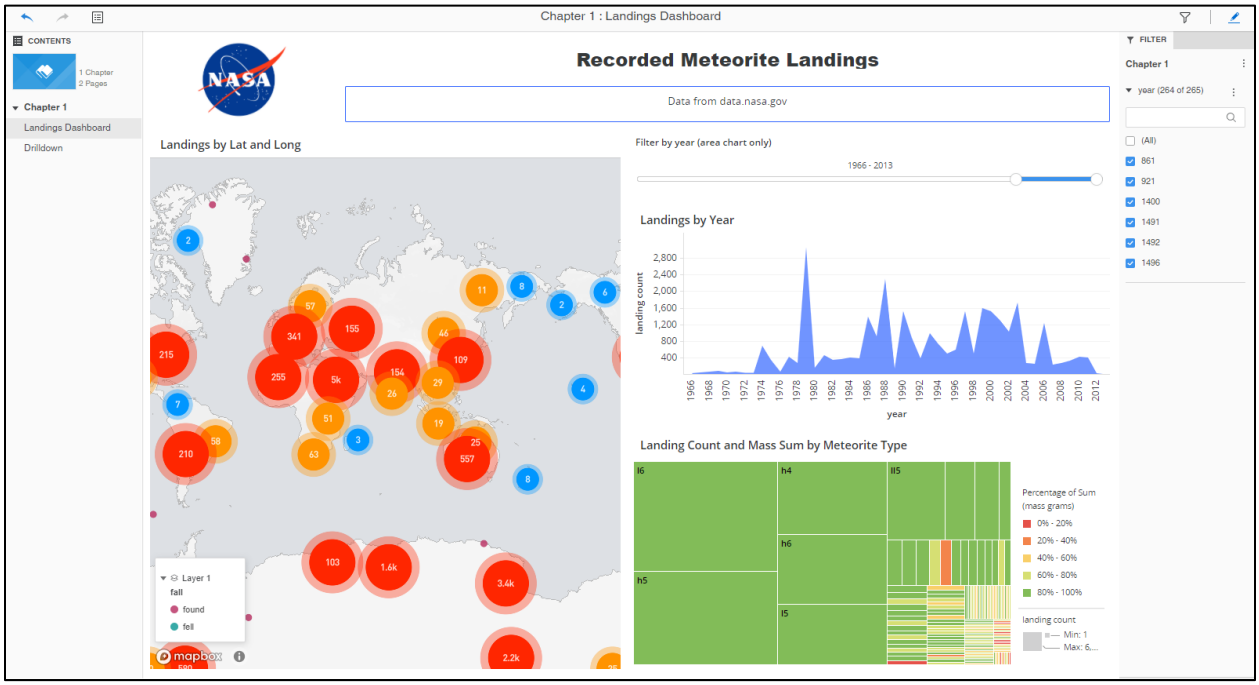

Figure 3: Left: Meteorite landing count shown by latitude and longitude. Right top: Landing count by year. Right bottom: Landing count and mass sum by meteorite type.