**Summary**

When it came to this project, the first major hurdle that I had to cross and learn was how to scrape data from the Pokemon websites. I had to understand how to access that particular set of information from the site to then push it into a data frame. Looking at the API source for the Pokemon, I had to understand what information that I wanted to grab from the source. It was not setup in a manner where you can pull all of the information at once, but only on a certain Pokemon at the time. Therefore, if someone were to look at my process again and wanted to use a different Pokemon instead of the one I chose, I learned to create an input for someone to search a different Pokemon from the API.

For the next challenge, I had to focus on how to clean all the three datasets that I had acquired from the different sources and to make sure that I kept a certain format to ensure that they all can link with one another. For example, when it came to creating or splitting the types of the Pokemon, I had to make sure that I filled in the blank types with the same phrase and label the columns in a similar fashion. The biggest challenge of cleaning up the data came with the data that was pulled from the API. It was very detailed to a point where it become highly repetitive and looking for certain information was similar to following a treasure map. For certain aspects, it was a dictionary within a list within another dictionary which was interesting to sort through and learn how to handle all of it and get it to a point where it would work on any Pokemon that someone would request from the API.

The last challenge that I faced and had to learn some things was how to bring all of the cleaned up data together into a sqlite3 database which included merging the datasets. It lead me to understanding joins on a much more detailed scope. Lastly, obtaining the necessary information to import the data into Power BI and be able to visualize the data. In the end, I think I learned a lot by obtaining the information from different sources, clean all the data, and then bring it to life under one source. It was also fun using the Pokemon topic since I already know it well and it being a global sensation.