

James Kulp  
DS 2002  
10/22/24

### DS 2002 Project 1 Write-up

This project challenged me in a few ways. I am not the strongest when it comes to python code and I ran into a few issues. The first challenge I faced was trying to design code that took input from the user and generated useful errors if those inputs were at all incorrect and made sure to distinguish between whether the file the user wished to convert began formatting as CSV or JSON, I had to look through old notes for tools to deal with inputted strings and make them uniform. Once I made sure that inputs were correct and accounted for user error I tested the function and was able to create basic data frames from either JSON or CSV. The next portion I found challenging was specifically converting a JSON file over to a CSV file. I am less familiar with the try and except coding format and it took me a number of attempts to figure out just what I needed to make the function accomplish; It took going back to the JSON file itself and remembering how they are formatted to mentally work out that they JSON files are dictionaries and come up with a method that would separate the key value pairs into strings before trying to convert to a csv format. Similarly with adding or dropping columns I am slow with coding and it took a while for me to account for user errors mainly by making them myself while testing. When it came to the final step of converting to sql it was a good exercise in understanding databases and accounting for likely errors in a way that was helpful to the user. I feel that not only did this project improve my coding skills and understanding of different data files, there is a functionality to the program itself. Data exists in all kinds of forms on the internet and being able to convert between them to suit a user's needs is a useful tool as we move forward in the course. My background and comfort zone is with manipulating csv files and being able to convert other forms to my preferred format will help make future projects simpler for someone like myself who already struggles sometimes with more technical/new coding.