With this project I was able to write a python script to import the database into an sql server with a few other tables to organize it better. The part that took the most time was getting the database to import everything. There were so many weird quirks with the spreadsheet. For example for some reason instead of just leaving it blank, the entire CirculationActiveMonth was full of single spaces making me have to hardcode spaces to be type None and create a whole function just to do correct the info.

My least favorite quirk was the HomeLibararyCode. At first I thought there was a 2 character limit on them and found out quickly that was not the case. Then I tried 3 and then there was another error. By the 4th error I was just upset and set it to 10 and that worked fine. Looking at the data there is a 5 character limit on them. Also upon execution I found out they added extra characters at the end of codes that were from the same library.

HomeLibraryCode	HomeLibraryDefinition
p3	Parkside
p3aaa	Parkside
p5	Portola
p5aaa	Portola
p5taa	Portola

Dumping into the database took somewhere from about 7-10 minutes. There were about 400000 lines it had to put in there and make sure the codes were available for the others to satisfy the foreign key constraints. Also importing the entire spreadsheet into the program took way too long. I saw another method of splitting it up into 1000 row chunks but I thought as long as it didn't crash it should be fine and it didn't.

Some random facts about the database:
There are 17 unique patron types
There are 67 unique library codes
There are 3 unique notification codes
There are 34642 users from age 0 to 9