SUMMARY

At first, we import the required module, here we are working with a module named prettytable which helps to plot a structured table without lots of effort. Then we defined a function named “column” which helps to extract the unique columns from each file and takes fileobject as input. This function body contains a while loop that iterates upon each non-empty line of a file. It first creates an empty list “index” at the beginning of each iteration of the while loop to store the indices of the line which contains a double inverted comma. The first for loop helps to store the indices of that line where the ‘ “ ‘ are present, and in the next for loop, we iterate upon some pairs of indices to extract the names of the columns then removing the unnecessary characters from it using the strip command for the string datatypes. And before appending to the column list we check whether the column of the same name is present or not, and then at the end we return the column list.

In the \_\_main\_\_ we defined a list to holds all unique columns of all the 8 files as “total\_columns” and another list “file\_column” to hold the unique columns of each file for 8 different files in form of a nested list. then in the next for loop, we iterates upon all the 8 files and extracted their unique column in a form of a nested list. Then we use another loop to extract only the unique elements from all 8 files using the “file\_column” list. Then we defined a table first with its column names and later on appending the rows of each 8 different files and print it.