Combine excel sheets into one workbook python

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	Data	Record	
1	**Data**	**Record**	
2	A	1	
5	C	3	
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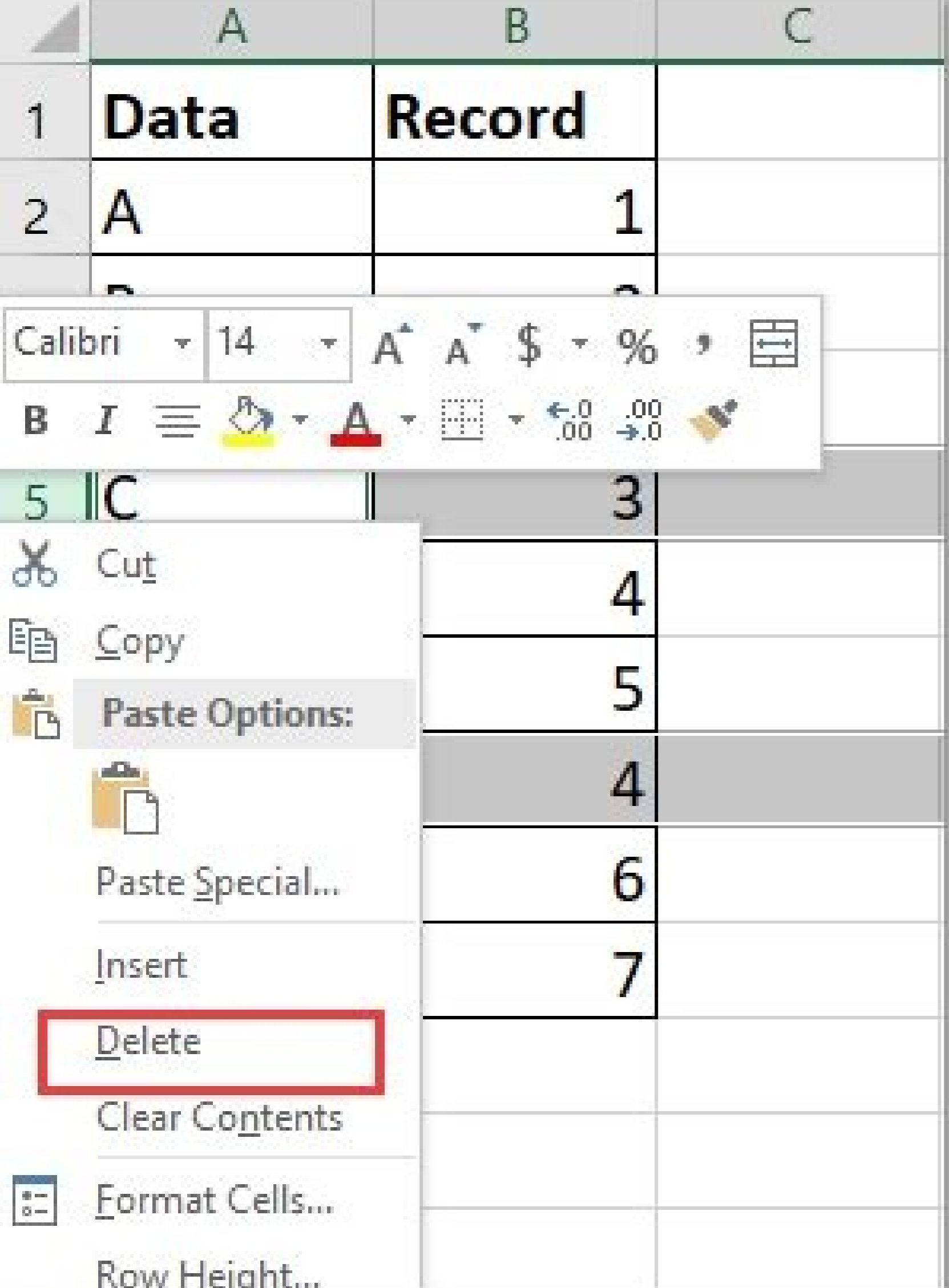
	most items	some items	one item
1	**most items**	**some items**	**one item**
2	1	item1	banana
3	2	item2	banana
4	3	item3	banana
5	4	item4	banana
6	5	item5	banana
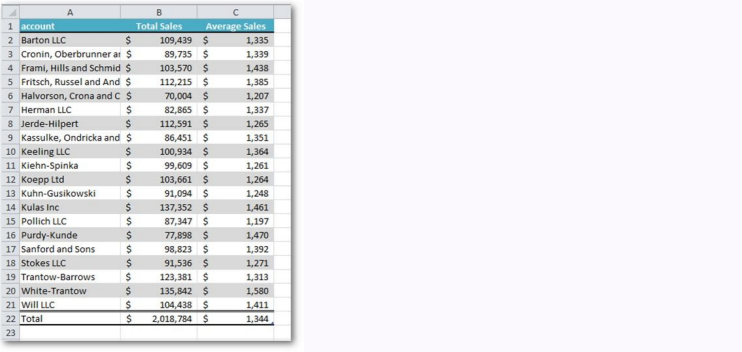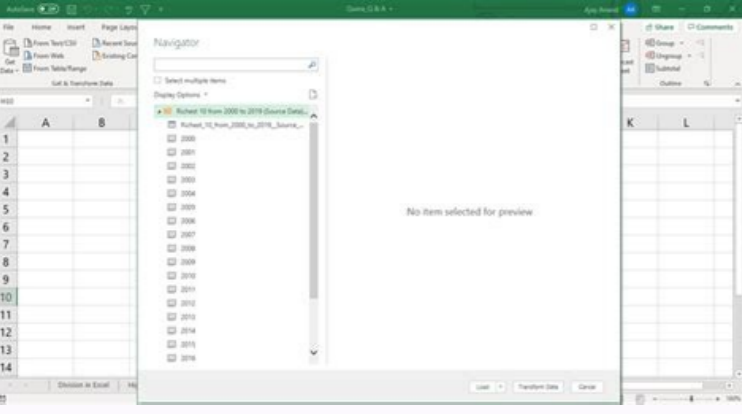
	account number	name	sku	quantity	unit price	ext price	date
2	412290	Jerde-Hilpert	S2-77896	43	76.66	3296.38	2018-03-04 23:10:28
3	383080	Will LLC	S1-93683	28	90.86	2544.08	2018-03-05 05:11:49
4	729833	Koepp Ltd	S1-30248	13	44.84	582.92	2018-03-05 17:33:52
5	424914	White-Trantow	S2-82423	38	50.93	1935.34	2018-03-05 21:40:10
6	672390	Kuhn-Gusikowski	S1-50961	34	48.2	1638.8	2018-03-06 11:59:00
7	239344	Stokes LLC	S2-10342	34	36.93	1255.62	2018-03-06 23:49:16
8	218895	Kulas Inc	S2-34077	30	99.73	2991.9	2018-03-07 05:15:29
9	672390	Kuhn-Gusikowski	B1-05914	25	89.86	2246.5	2018-03-07 06:25:52
10	740150	Barton LLC	S1-82801	29	60.81	1763.49	2018-03-07 10:24:54
11	218895	Kulas Inc	B1-20000	23	99.57	2290.11	2018-03-07 13:34:00
12	257198	Cronin, Oberbrunner and Spencer	S1-30248	14	91.37	1279.18	2018-03-07 16:21:58
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15	307599	Kassulke, Ondricka and Metz	S1-10342	4	12.99	51.96	2018-03-07 23:59:26
16	383080	Will LLC	B1-20000	45	29.9	1345.5	2018-03-08 01:50:36

Sheet1 Sheet2 Sheet3 Sheet4 Sheet5 Sheet6

How to combine multiple excel sheets into one using python. Can i combine multiple excel spreadsheets into one. How can i combine two excel sheets into one. Combine multiple excel sheets into one workbook python. Combine multiple excel files into one workbook separate sheets python. How do i combine data from multiple excel workbooks into one.

In this short tutorial, I'll show you how to use Python to combine multiple Excel files into one master spreadsheet. Imagine that you have dozens of Excel files with the same data fields, and your job is to aggregate sheets from those files. Manually doing this job is super inefficient, and Python will save you a lot of time in the long run, so let's all work smarter!Note that this article talks about appending Excel files with the same format/data fields. Merging multiple dataset is a different task.If you are new to Python, this series Integrate Python with Excel offers some tips on how to use Python to supercharge your Excel spreadsheets.The workflowTo solve the problem, we'll need to follow the below work flow:Identify the files we need to combineGet data from the fileMove data from step 2) to a master dataset (we will call it "dataframe")Report 2-3 for the number of filesSave the master dataset into an Excel spreadsheetImport librariesAlright, let's see how to code the above work flow in Python. For this exercise, we'll need to use two Python libraries: os and pandas. If you want to follow along, feel free to grab the source code and files used in this tutorial from here. Although you can combine as many Excel files as you wish, we'll use three files to demonstrate the process.If you need help with installing Python or libraries, here's a guide on how to do that.os library gives a way of using operating system dependent functionalities. Such as manipulating folder and file paths. We use this library to get all the Excel file names, including their paths.pandas library is the gold standard for data analysis and manipulation. It is fast, powerful, and flexible. We use this library to load Excel data into Python, manipulate data, and recreate the master spreadsheet.We'll start by importing these two libraries. Then find the current working directory, as well as all the file names within the directory.import os import pandas as pd cwd = os.path.abspath('') files = os.listdir(cwd) Getting current working directory and files within itThe variable cwd shows the path to the current working directory, and the variable files is a list of all the file names within the current working directory. Notice there are non-Excel files, and we don't want to open those, so we'll handle that soon.Combine multiple Excel files into one spreadsheetNext, we create an empty dataframe df for storing the data for master spreadsheet. We loop through all the files within the current working directory, but only process the Excel files whose name ends with ".xlsx". This is done by this line of codeif file.endswith('.xlsx):pd.read_excel() will read Excel data into Python and store it as a pandas DataFrame object. Be aware that this method reads only the first tab/sheet of the Excel file by default. If your Excel file contains more than 1 sheet, continue reading to the next section.df.append() will append/combine data from one Excel file to another. Think about copying a block of data from one Excel file and pasting it into another. Instead of opening up Excel, data is stored inside your computer's memory.df = pd.DataFrame() for file in files: if file.endswith('.xlsx'): df = df.append(pd.read_excel(file), ignore_index=True) df.head()The above code does the following:Loop through all the files in the current working directory, determine if a file is Excel by checking the file name ends with ".xlsx".If yes, read the file content (data), and append/add it to the master dataframe variable called df.Save the master dataframe into an Excel spreadsheet.We can examine the master dataframe by checking df.head(), which shows the first 5 rows of the data.Checking the first 5 rows of data in the dataframeSeems good! Just another quick check to make sure we have loaded everything in the DataFrame. df.shape will show us the dimension (36 rows, 5 columns) of the data:Everything looks good, so let's output the data back into Excel. The last line df.to_excel() will do that.Combine multiple sheets from the same Excel fileI talked about the two techniques to read multiple sheets from the same Excel file, so I won't repeat it. However, I'll walk through an example here with a slightly different setting.We have 2 files each contains a number of sheets. We don't know how many sheets are in each file, but we know the format is the same for all sheets. Our goal is to aggregate all sheets into one spreadsheet (and one file).The workflow is similar:Get all Excel filesLoop through the Excel filesFor each file, loop through all sheetsRead each sheet into a dataframe, then combine all dataframes together.df_total = pd.DataFrame() for file in files: # loop through Excel files if file.endswith('.xlsx'): excel_file = pd.ExcelFile(file) sheets = excel_file.sheet_names for sheet in sheets: # loop through sheets inside an Excel file df = excel_file.parse(sheet_name = sheet) df_total = df_total.append(df) df_total.to_excel('combined_file.xlsx') Putting it all togetherBelow is the full code put together. 10 lines of code will help you combine all your Excel files or sheets into one master spreadsheet. Enjoy!import os import pandas as pd cwd = os.path.abspath('') files = os.listdir(cwd) ## Method 1 gets the first sheet of a given file df_total = pd.DataFrame() for file in files: # loop through Excel files if file.endswith('.xlsx'): df = df.append(pd.read_excel(file), ignore_index=True) df.head() df.to_excel('total_sales.xlsx') ## Method 2 gets all sheets of a given file df_total = pd.DataFrame() for file in files: # loop through Excel files if file.endswith('.xlsx'): excel_file = pd.ExcelFile(file) sheets = excel_file.sheet_names for sheet in sheets: # loop through sheets inside an Excel file df = excel_file.parse(sheet_name = sheet) df_total = df_total.append(df) df_total.to_excel('combined.xlsx') Python, as a language, is valuable beyond measure, especially when you want to work with structured data. Since people store a lot of data in Excel files, it is imperative to consolidate multiple files to save time and effort. Python lets you do exactly that; no matter how many Excel files you want to combine, you can do it with relative ease. Given its range of libraries and third-party resources, you can import and use Python's multi-faceted tools to do your bidding. In this guide, you will need to install and use the Pandas libraries to import data into Python before consolidating it. Install Pandas Libraries in Python Pandas is a third-party library that you can install in Python. Some IDEs already have Pandas installed in them. If you are using an IDE version that doesn't come with pre-installed Pandas, rest assured, you can install it directly in Python. Here's how to install Pandas: pip install pandas If you're using Jupyter Notebook, you can install Pandas directly with the PIP command. Mostly, when you have installed Jupyter with Anaconda, there are high chances of already having Pandas available for direct use. If you cannot call Pandas, you can use the above command to install them directly. Combining Excel Files With Python First, you need to create a folder in your preferred location with all the Excel files. Once the folder is ready, you can start writing the code to import the libraries. You will use two variables in this code: Pandas: The Pandas library provides the data frames to store Excel files. OS: The library is beneficial for reading data from your machine's folder To import these libraries, use these commands: import Pandas as pdImport OS Import: Python syntax used to import the libraries in Python Pandas: Name of the library input_file_path: Path of the folder where the files are stored excel_files: Any variable which is used in the for loop OS: A library to access the system folder Once you have imported the libraries, create two variables to store the input and output file path. The input file path is needed to access the files' folder. The output file path is necessary as the combined file will be exported there. If you are using Python, make sure you change the backslash to forward-slash (\ to /) input_file_path = "C:/Users/gaurav/OneDrive/Desktop/Excel files/"output_file_path = "C:/Users/gaurav/OneDrive/Desktop/" Append the / at the end as well to complete the paths. The folder's files are available in a list. Create a list to store all the file references of the input folder using the listdir function from the OS library. If you are unsure of the functions available within a library, you can use the dir function with the library name. For example, to check the exact version of the listdir function, you can use the command as follows: dir(OS) The output will consist of all the associated functions available within the OS library. The listdir function is one of the many functions available within this library. Create a new variable to store the input files from the folder. excel_file_list = os.listdir(input_file_path) Print this variable to see the names of the files stored within the folder. All files stored within the folder are displayed once you use the print function. print (excel_file_list) Next, you need to add a new data frame to store each Excel file. Imagine a data frame as a container for storing data. Here's the command for creating a data frame. df = pd.DataFrame() df: Variable to store the value of the DataFrame pd: Alias for the Pandas library DataFrame: Default syntax for adding a data frame The input folder has three .xlsx files in this example. The file names are: File1_excel.xlsxFile2_excel.xlsxFile3_excel.xlsx To open each file from this folder, you need to run a loop. The loop will run for each of the files in the list created above. Here's how you can do it: for excel_files in excel_file_list: Next, add an If statement. Use the endswith function for this purpose, as follows: for excel_files in excel_file_list: if excel_files.endswith(".xlsx"): excel_files: List with all the file values endswith: Function to check the extension of the files (".xlsx"): This string value can change, depending on what you want to search for Now that you've identified the Excel files, you can create a new data frame to read and store the files individually. for excel_files in excel_file_list: if excel_files.endswith(".xlsx"): df1 = pd.read_excel(input_file_path+excel_files) df1: New data frame pd: Pandas library read_excel: Function to read Excel files within the Pandas library input_file_path: Path of the folder where the files are stored excel_files: Any variable which is used in the for loop To start appending the files, you need to use the append function. for excel_files in excel_file_list: if excel_files.endswith(".xlsx"): df1 = pd.read_excel(input_file_path+excel_files) df = df.append(df1) Finally, now that the consolidated data frame is ready, you can export it to the output location. In this case, you are exporting the data frame to an XLSX file. df.to_excel(output_file_path+"Consolidated_file.xlsx") df: Dataframe to export to excel: Command used to export the data output_file_path: Path defined for storing the output Consolidated_file.xlsx: Name of the consolidated file Now, let's look at the final code: import pandas as pdimport osinput_file_path = "C:/Users/gaurav/OneDrive/Desktop/Excel files/"output_file_path = "C:/Users/gaurav/OneDrive/Desktop/"excel_file_list = os.listdir(input_file_path)excel_file_listdf = pd.DataFrame()for excel_files in excel_file_list: #check for .xlsx suffix files only if excel_files.endswith(".xlsx"): df1 = pd.read_excel(input_file_path+excel_files) df = df.append(df1)df.to_excel(output_file_path+"Consolidated_file.xlsx") Using Python to Combine Multiple Excel Workbooks Python's Pandas is an excellent tool for beginners and advanced users alike. The library is used extensively by developers who want to master Python. Even if you are a beginner, you can benefit immensely by learning the nuances of Pandas and how the library is used within Python.

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