

Hello Ladies....

For our Projects, I believe that we all have access to our 4 Datasets. We will be using all 4 datasets in a single worksheet; this means we will need to append all 4 tables into one single worksheet.

To do this, we will be using the Google Sheets, then go over to Excel to continue with our analysis (I have no idea how to do that on Excel - anyone with an idea on how to do this can help out pls). You can, however, choose to continue using Google Sheets or download your sheets to work offline with Excel.

TASK

Read the Business Problem below.

You're a Data Analyst working for the education tech company Udemy. You have been asked by your manager, Head of Curriculum at Udemy, to present the data on course revenue, and you have been provided with data on courses from different topics to understand where opportunities to increase revenue may lie, and track the performance of courses.

Your manager has suggested encouraging Web Development courses to charge more because she believes that these are the most popular courses. She needs to send a report to the CEO in the next three weeks on how they will increase their next quarterly earnings.

Now to achieve this task, you need to do the following:

- Import all your datasets into one worksheet by appending them (a guide on how to do this at the end)
- Clean your data – pay particular attention to duplicates, blank cells/empty rows, headers and the subject (make sure all variable names in subject column are consistent).

With your cleaned Google sheet, we're going to perform some functions to get additional data on the Udemy courses to consolidate and present this clearly. To do this, we will be using the Right/Left Function, IF function, VLookup and we will create Pivot Tables and Charts.

- Right/Left Function

While there is a published time available for each course, we want to know the date that each course was published without the time stamp. Use the Right or Left function to create a 'Date' Column.

- IF Function

We want to know how many courses are free and how many are paid. Use the IF Function to create a column that indicates whether a course is free or paid.

- Pivot Tables and Charts

Create the following Pivot Tables and Charts:

- Total number of subscribers for each subject (Pie Chart)
- Average number of subscribers for each subject (Bar Chart)
- Average cost per subject at each level (Bar Chart)
- Average content duration for each subject (Bar Chart)
- Average rating per subject for each level (Column Chart)
- Any other data that you feel will be important to include in your analysis

FURTHER

Your manager has asked for a list of the top 20 most subscribed courses with the following information:

1. Their level
2. Whether they are free or paid,
3. Whether any are free beginner courses,
4. Duration of the course
5. The date they were published

To find the list of top 20 most subscribed courses, you will need to sort the data: Sort by num_subscribers

This will sort the sheet by number of subscribers and you can find the top 20 courses.

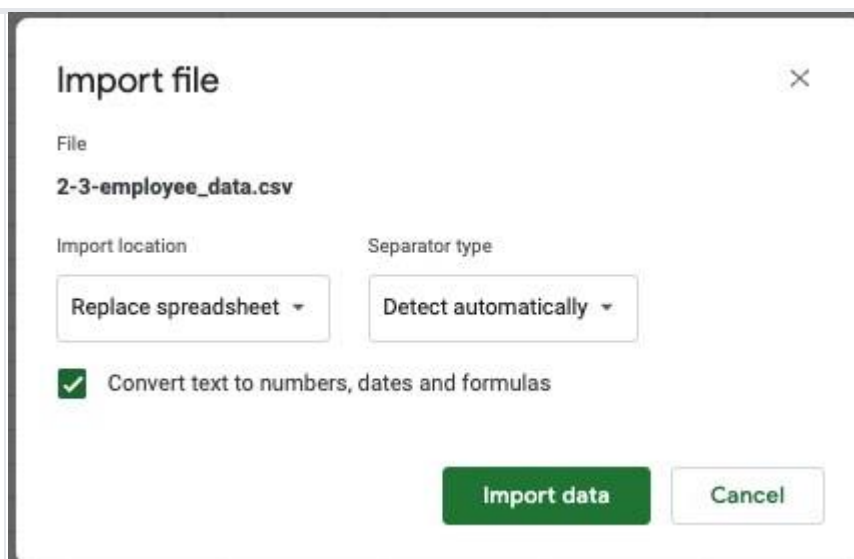
Then, use the **VLookup function** to find and organise the required information on a separate sheet. Your manager wants to understand the trends for the most subscribed courses.

P.S: Below is a guide on how to Append your datasets on Google Sheets

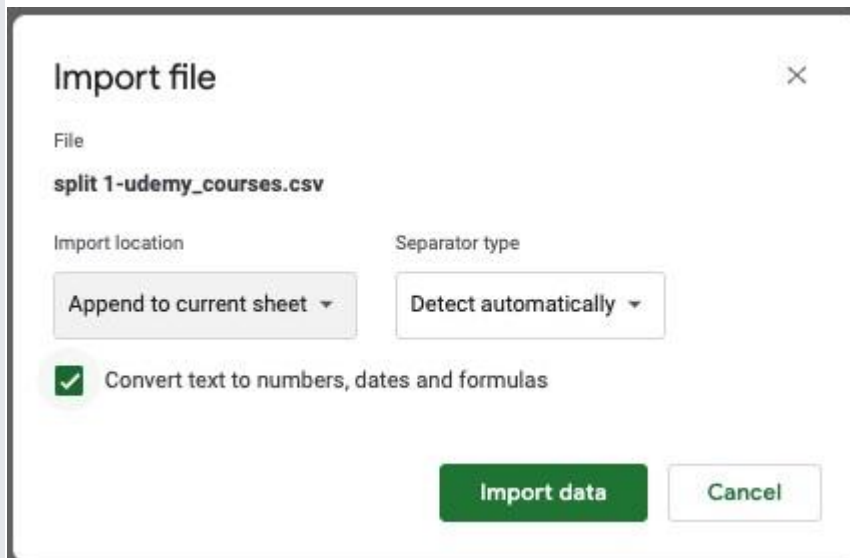
Now that you have the data files, it's time to consolidate the data by joining these sheets in Google Sheets.

Instructions for uploading to Google Sheets

- Download all four of the datasets provided.
- Open Google Sheets.
- Create a new spreadsheet. You will be importing each of the separate datasets into the one sheet.
- Click File > Import > Upload
- Select one of the downloaded datasets
- You will see a dropdown - select 'Replace Spreadsheet' and import data.



Add the remaining datasets to this sheet by repeating Step 4. However, when importing the file, select 'Append to current sheet' as is done below.



Import file [X]

File
split 1-udemy_courses.csv

Import location: **Append to current sheet** ▼

Separator type: **Detect automatically** ▼

☒ Convert text to numbers, dates and formulas

Import data Cancel

Repeat Step 7 until you have uploaded all datasets.

You will see that not all of the data is consistent or clean. We will be working on this for the next few activities

DEADLINE - 9th December, 2022