

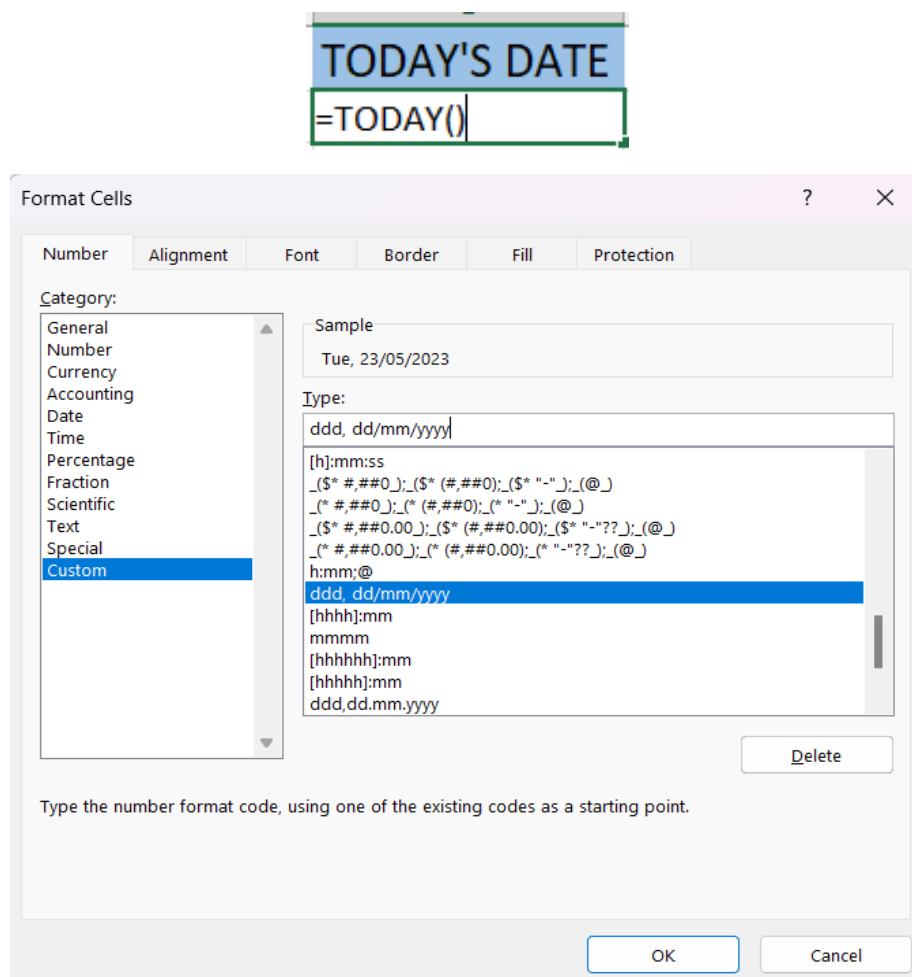
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2 Creating Data Table for Pomodoro Study

2.1 Creating Today's Date

The date column will be automatically assigned to the corresponding cell using VBA. To accomplish this, we will create a function that captures today's date and formats the cell accordingly, as depicted in the image below.



2.2 Creating Session Pattern and Columns

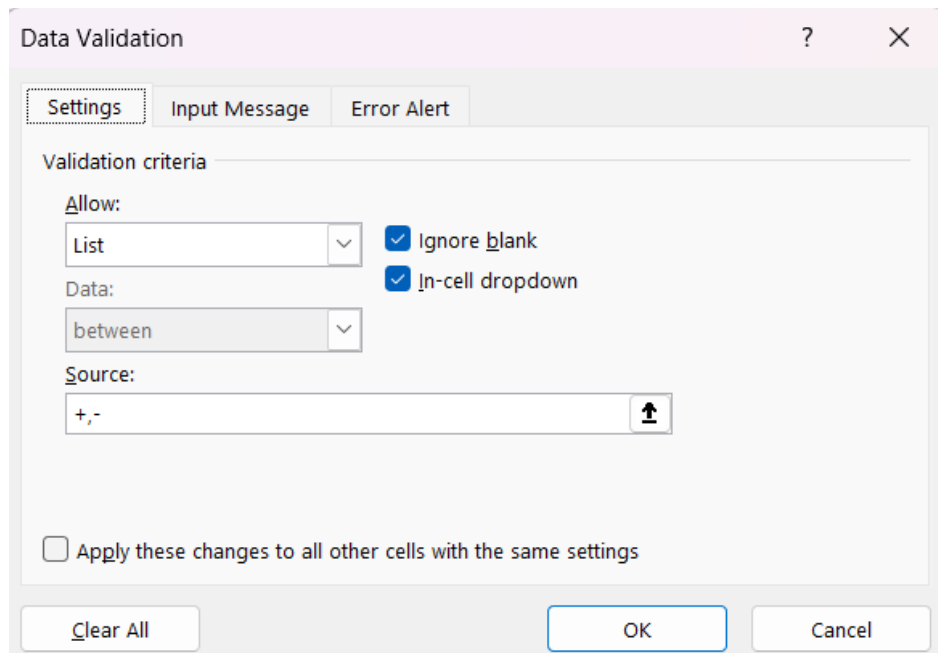
SESSION PATTERN			TIME INTERVALS	MEANINGS
0:00	0:25		0:25	Duration of 1 course
0:30	0:55		0:05	5-minute break between the first three intervalsf
1:00	1:25		0:07	7-minute break between the third and fourth intervals
1:32	1:57		0:15	15-minute break between sessions

	A	B	C	D	E	F
1	DATE	STARTING TIME	ENDING TIME	DURATION	COURSE	RESULT

I have also applied the freeze panes feature to lock the columns.

3 Data Validation for Course and Result Column

To facilitate the selection of courses and prevent spelling errors, we will utilize Excel's "data validation" feature in the "RESULT" and "COURSE" columns.



The image shows the 'Data Validation' dialog box in Microsoft Excel. The 'Settings' tab is selected. Under 'Validation criteria', the 'Allow' dropdown is set to 'List'. The 'Data' dropdown is set to 'between'. The 'Source' field contains '+,-'. The 'Ignore blank' and 'In-cell dropdown' checkboxes are both checked. At the bottom, there is a checkbox for 'Apply these changes to all other cells with the same settings' which is unchecked. The 'Clear All', 'OK', and 'Cancel' buttons are at the bottom.

Data Validation

Settings Input Message Error Alert

Validation criteria

Allow: List

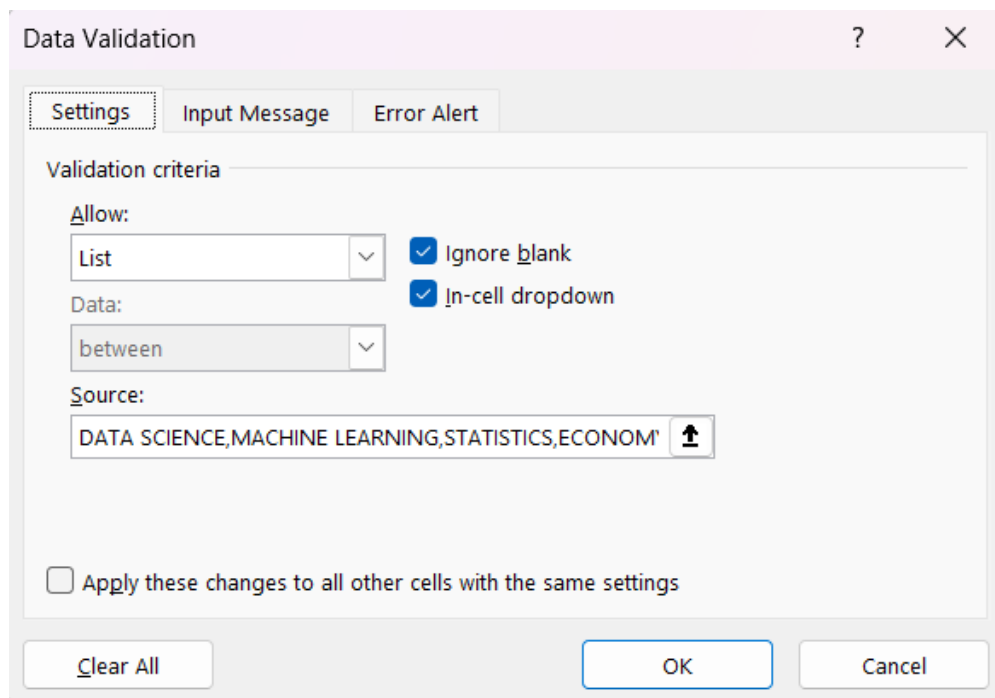
Data: between

Source: +,-

☐ Apply these changes to all other cells with the same settings

Clear All OK Cancel

Data validation has done to “RESULT” column as you see in the image.



The image shows the 'Data Validation' dialog box in Microsoft Excel. The 'Settings' tab is selected. Under 'Validation criteria', the 'Allow' dropdown is set to 'List'. The 'Data' dropdown is set to 'between'. The 'Source' field contains 'DATA SCIENCE,MACHINE LEARNING,STATISTICS,ECONOM'. The 'Ignore blank' and 'In-cell dropdown' checkboxes are both checked. At the bottom, there is a checkbox for 'Apply these changes to all other cells with the same settings' which is unchecked. The 'Clear All', 'OK', and 'Cancel' buttons are at the bottom.

Data Validation

Settings Input Message Error Alert

Validation criteria

Allow: List

Data: between

Source: DATA SCIENCE,MACHINE LEARNING,STATISTICS,ECONOM'

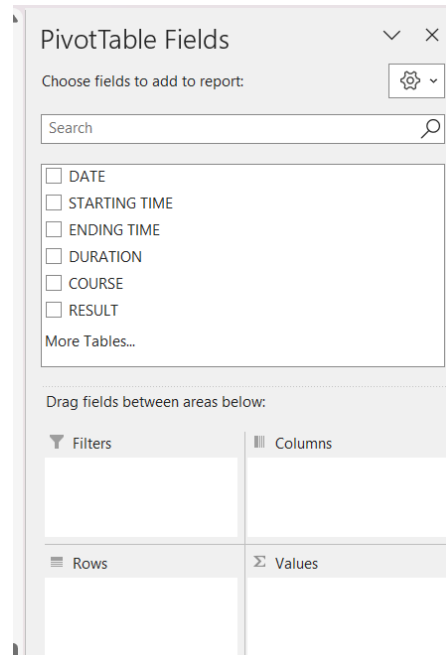
☐ Apply these changes to all other cells with the same settings

Clear All OK Cancel

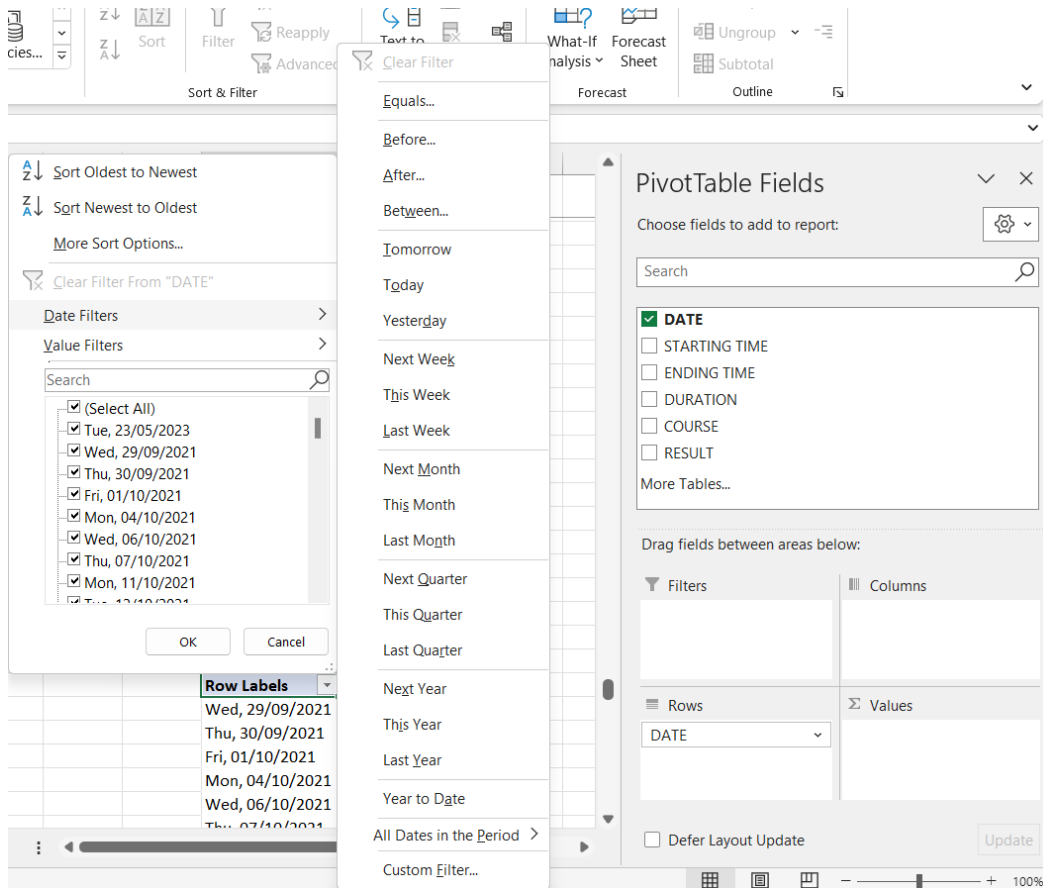
Data validation has done to “COLUMN” column as you see in the image.

4 Designing the Pivot Table

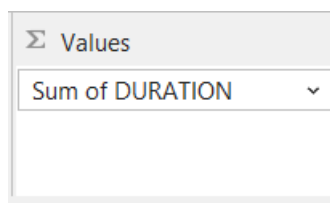
In order to provide an easy overview of the study hours on a daily, weekly, monthly, or desired time interval, we have created a pivot table. This pivot table allows individuals to observe their study performance based on their chosen subjects or courses. Below, we present the process of creating the process of creating the pivot table in a more refined manner.



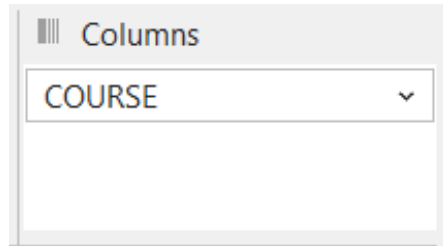
Firstly, we open the PivotTable Fields.



We have populated the "Rows" section with the "DATE" values, including all dates from 2021 until the present. However, since we primarily focus on weekly or monthly usage, we can utilize the "Row Labels" option and select the desired time interval from the "Data Filters" section. Moreover, we have the flexibility to manually customize the filter by selecting the "Custom Filter" option according to our specific preferences.



We put "Sum of DURATION" into the Values.

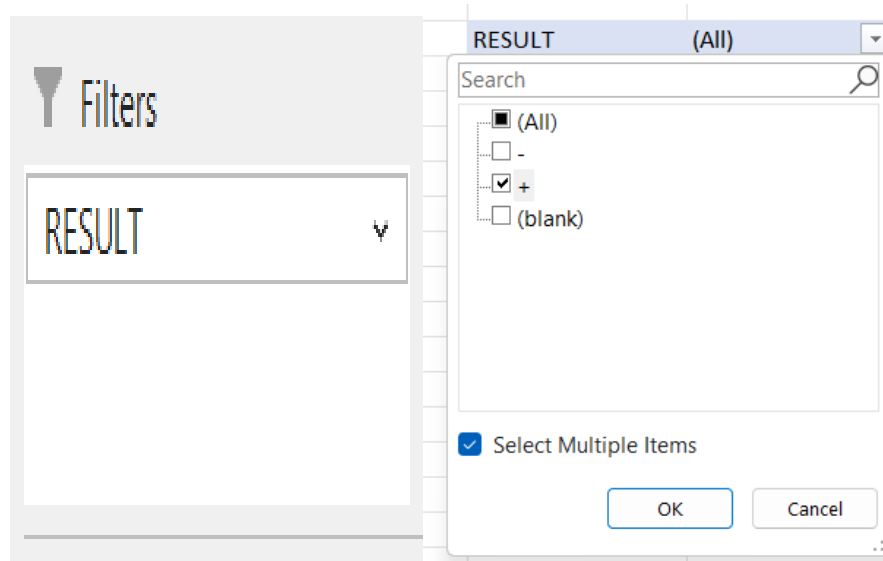


We put "COURSE" in the columns part.

The image shows a 'Filter' dialog box on the left and a PivotTable on the right. The dialog box has options for sorting and filtering. Under 'Value Filters', a search box contains 'COURSE', and a list of courses is shown with checkboxes: (Select All), BREAK, CS50, DATA SCIENCE, ECONOMY, MACHINE LEARNING, OTHER, READING, and STATISTICS. The PivotTable on the right has 'Sum of DURATION' as the value field and 'COURSE' as the column labels. The table shows data for 'DATA SCIENCE' and 'OTHER' across various dates, with a 'Grand Total' row at the bottom.

Sum of DURATION	Column Labels	OTHER	Grand Total
Row Labels	DATA SCIENCE		
Sun, 14/05/2023		00000:50	00000:50
Mon, 15/05/2023	00002:29		00002:29
Tue, 16/05/2023	00001:24		00001:24
Wed, 17/05/2023	00002:47		00002:47
Thu, 18/05/2023	00001:08		00001:08
Fri, 19/05/2023	00001:28		00001:28
Grand Total	00009:16	00000:50	00010:06

From "Column Labels" part, you can display desired courses.



To easily view courses that were completed successfully or unsuccessfully, we have added the "RESULT" column to the "Filters" section.

5 Creating Macros

The VBA files, namely **Module1**, **Module2**, and **Module3**, contain the codes and descriptions of functions. These files provide comprehensive information and explanations about the code and its respective functionalities.

6 Assigning Keyboard Shortcuts to Macros

