

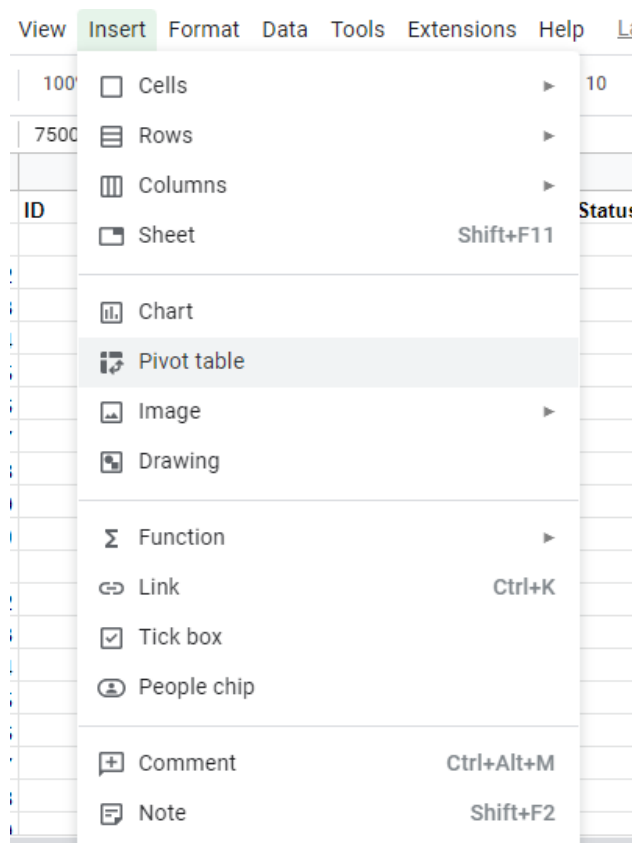
PIVOT TABLE

Pivot table is a very interactive and useful way to easily summarise large amount of data for better understanding of the information. It helps us in extracting the data that is significant for us from a very large dataset.

A pivot table helps us to transform a row into a column and column into row.

How to insert a Pivot table?

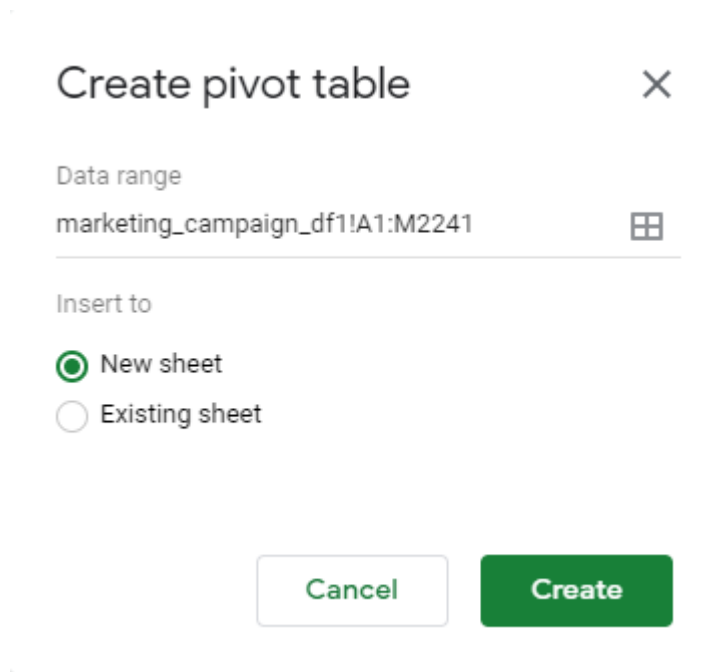
1. Click on any cell in our dataset.
2. Then go to Insert and click on pivot table(Insert->Pivot Table)



3. After that it will automatically select all of the data range in your spreadsheet. And it will ask you where to insert the table:-

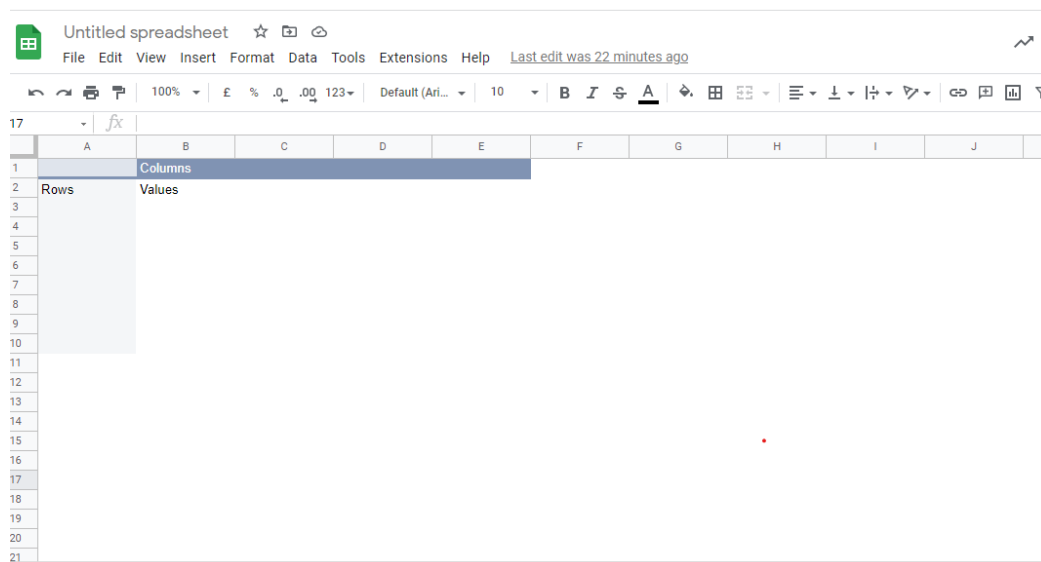
New sheet- if you want to insert the table into a new sheet

Existing sheet- if you want to insert the table into the existing sheet



The dialog box titled "Create pivot table" has a close button (X) in the top right corner. It contains a "Data range" field with the text "marketing_campaign_df1!A1:M2241" and a grid icon to its right. Below this is an "Insert to" section with two radio buttons: "New sheet" (which is selected) and "Existing sheet". At the bottom are two buttons: "Cancel" and "Create".

4. After you click on create , your pivot table will be created like shown below

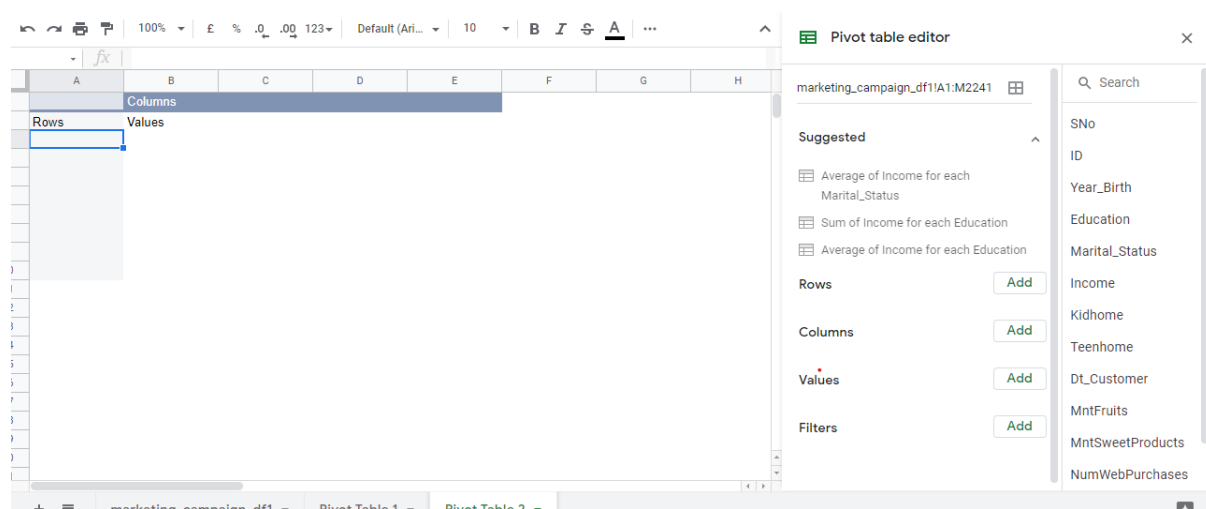


The screenshot shows a Google Sheets interface with a pivot table. The spreadsheet is titled "Untitled spreadsheet". The menu bar includes File, Edit, View, Insert, Format, Data, Tools, Extensions, and Help. The toolbar shows various icons for undo, redo, copy, paste, and other functions. The pivot table is located in the top-left corner of the grid, starting from cell A1. It has two columns: "Columns" and "Rows". The "Columns" column is currently empty, and the "Rows" column is also empty. The pivot table is set to show the data in a table format.

Now under the rows column, we can add any categorical feature on which we want to perform our data analysis

PIVOT TABLE EDITOR

By clicking on the highlighted portion under the rows column will open the pivot table editor



Here we can select various features(in Row,Column) that we want to add in our pivot table and also assign them Values accordingly on which we want to perform our analysis.

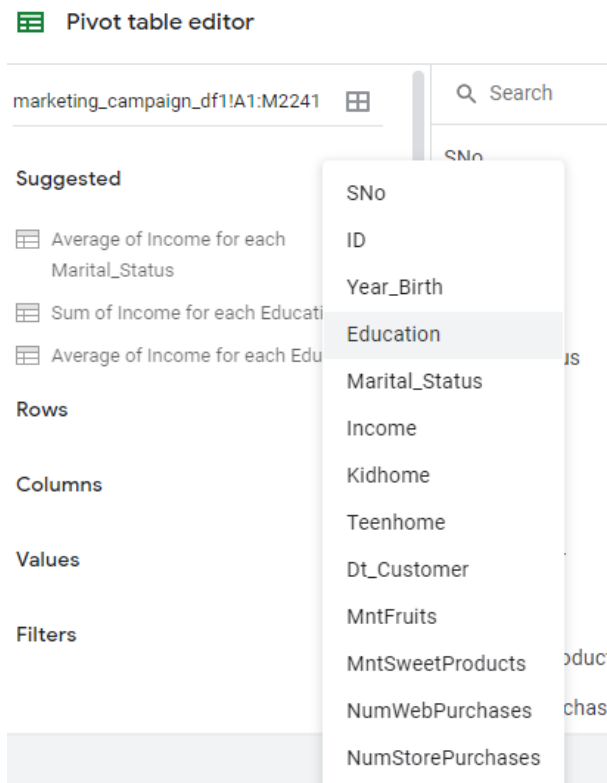
Also we can also apply Filter in our table to better understand the table and extract required information.

ACTIVITY:-Suppose you are given the task to analyse the amount of sweet products based on the Education of various customer

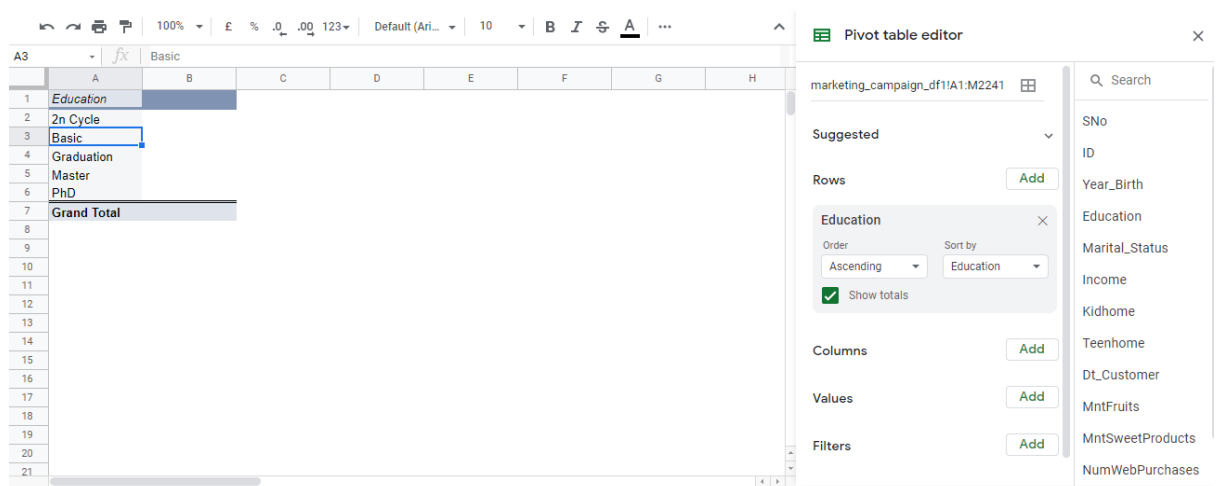
So now we know that 'Education' is a Categorical feature, so we will take help of Pivot table here.

- 1) So initially perform the first 4 steps as mentioned above to insert a pivot table.

- 2) After this we want to analyse based on education, so we will Add Education in row in Pivot Table Editor section.



After selecting Education, this will be the result on our sheet



- 3) Now as we want to analyse the amount of sweet products, so we Add MntSweetProducts in the Values

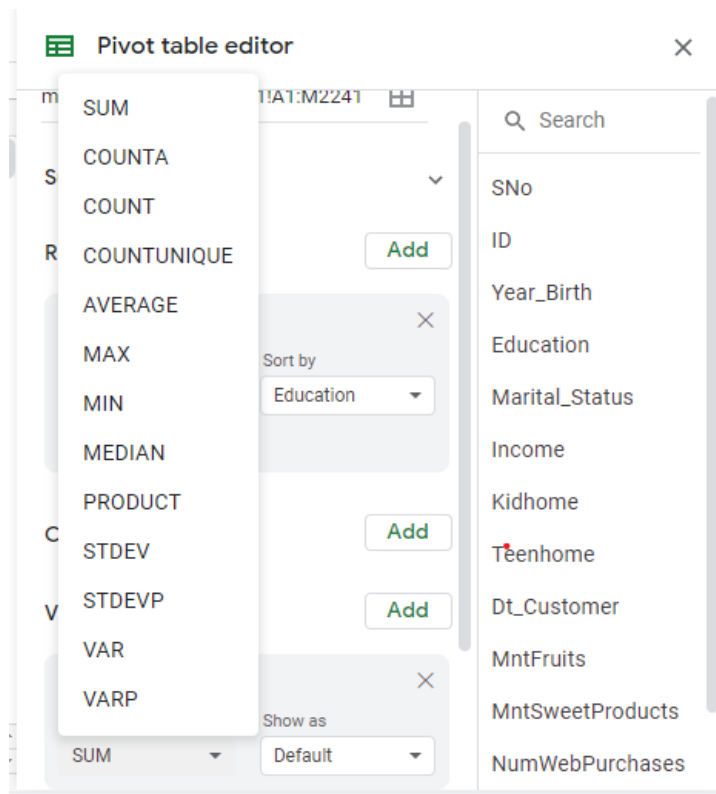
A	B	C	D	E	F	G	H
Education							
2n Cycle							
Basic							
Graduation							
Master							
PhD							
Grand Total							

After adding MntSweetProducts we will get the following output:

A	B	C	D	E	F	G	H
Education	SUM of MntSwe						
2n Cycle	6953						
Basic	654						
Graduation	35351						
Master	7835						
PhD	9828						
Grand Total	60621						

This is basically the sum of amount of sweet products bought by individuals of various educational qualifications.

- 4) We can also summarise our result by various other functions(like average, count, max, min etc) by exploring various options in “Summarise by” option, depending on requirements of analysis.

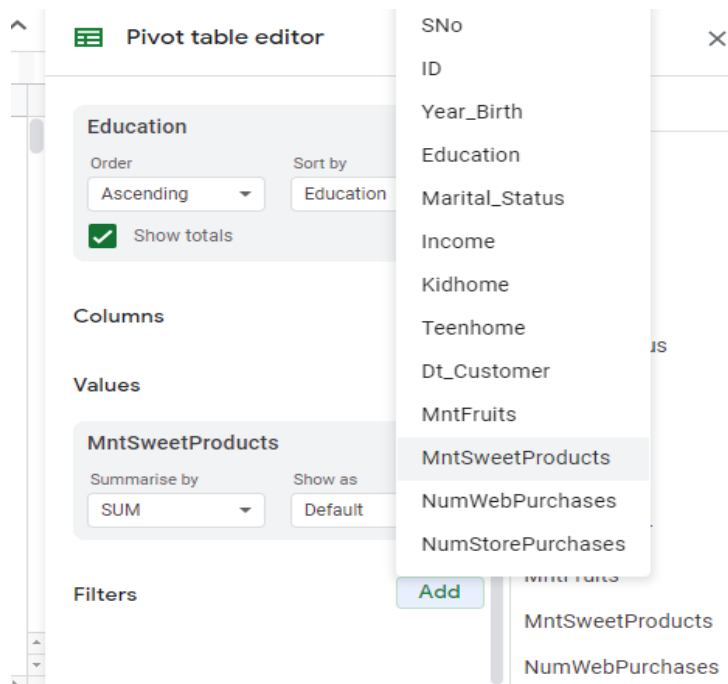


FILTER:

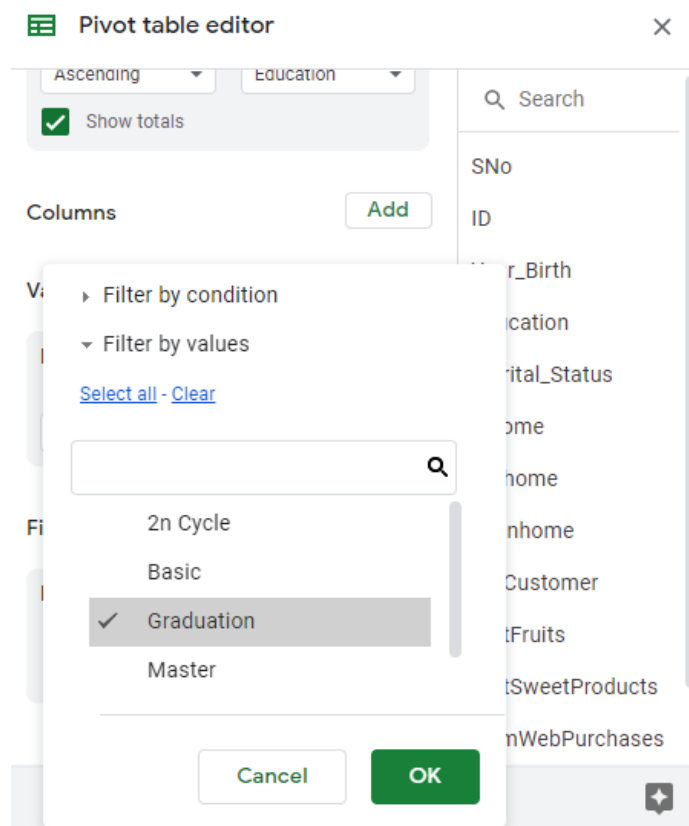
After this suppose you closely want to analyse those have graduation qualification only

Then for this we can also apply a Filter to filter out a specific result

Simply click on the Add filter in pivot table editor



After this give the filter value you want



After performing the above actions, this will be the final output on our sheet:

Education							
A	B	C	D	E	F	G	H
Education	SUM of MntSwe						
Graduation	35351						
Grand Total	35351						

Ascending Education

☒ Show totals

Columns [Add](#)

Values [Add](#)

MntSweetProducts

Summarise by SUM Show as Default

Filters [Add](#)

Education

Status Showing 1 item