Course: IDA Lab Class: SY CSE

Roll NO: 18 DATE:

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PRACTICAL 2

Create flexible data aggregation using pivot table

Objectives:

- 1. To understand the purpose and use of pivot table.
- 2. To Understand the difference between normal table and flexible table .
- 3. To know, how to create Pivot table?

Theory:

Introduction to pivot table:

What is the pivot table?

- A Pivot Table is a powerful tool to calculate, summarize, and analyze data, that let you see comparisons, patterns, and trends in your data.
- A Pivot Table is used to summarize, sort, re organize, group, count, total or average data stored in the table.

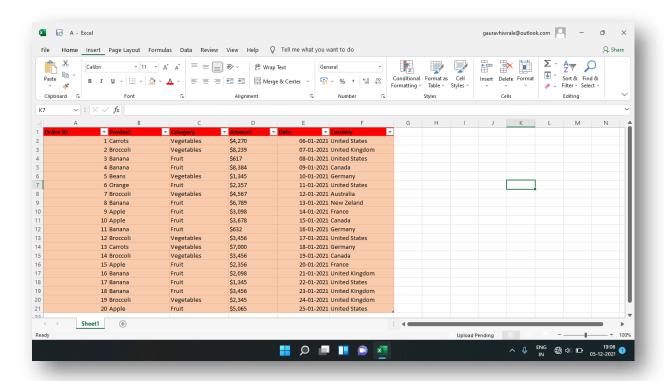
Performance and result:

All the operation are performed on following workbook:

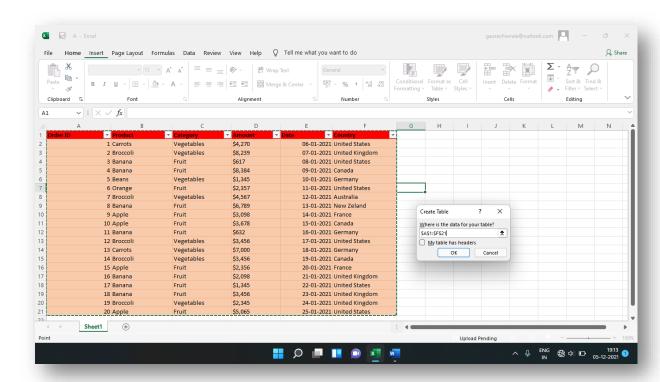
Pivot table demo Workbook

Following are the observations performed on sample workbook

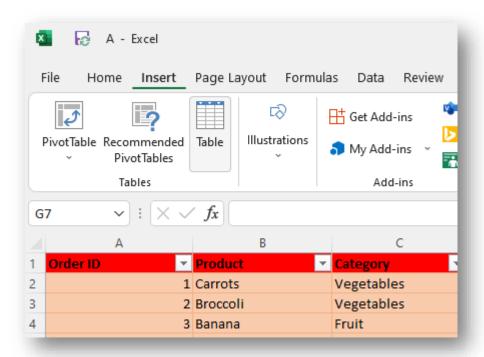
• Opening the given sample workbook.



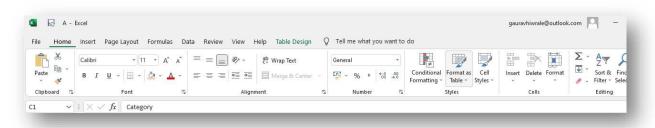
- Now we have to create a table.
 - 1. To create table we can simply press CTRL+T



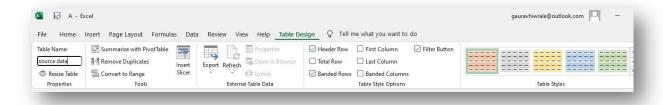
2. Can go insert tab on ribbon and select table.



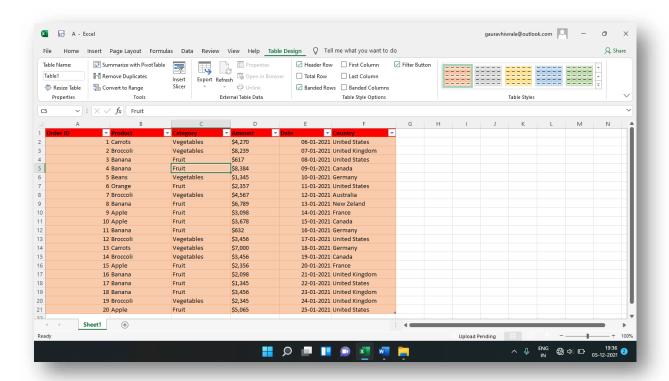
3. Can go on in the home tab on ribbon and can select "Format as table option".



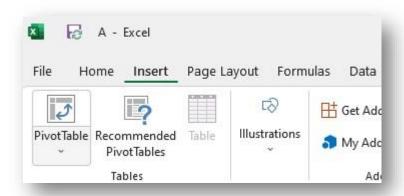
4. Then in the design tab on ribbon name your table as source data.



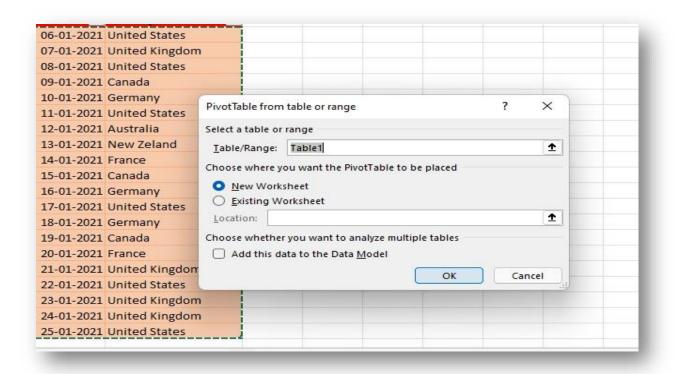
- Next we have to create a pivot table.
- 1. To create a pivot table, first select a cell



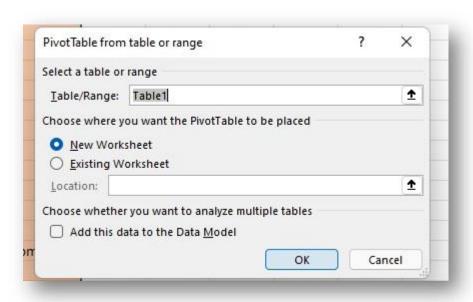
2. Then go to insert tab on the ribbon and select pivot table option or simply press ALT+NV.



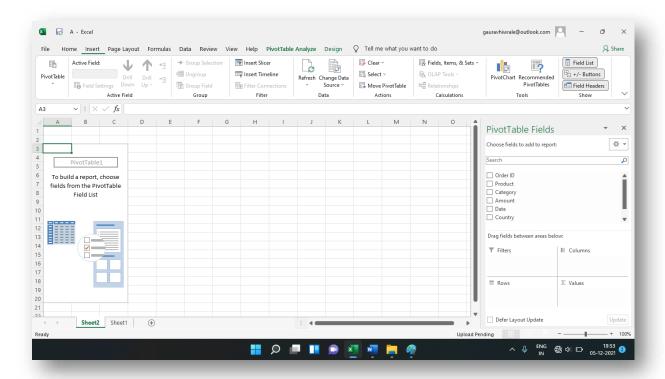
3. A dialog box will appear.



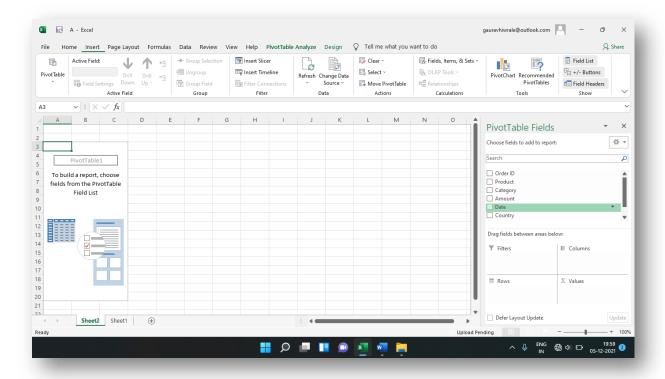
4. In that select a destination where you have to create a pivot table. Choose the new worksheet option in the create pivot table dialog box.



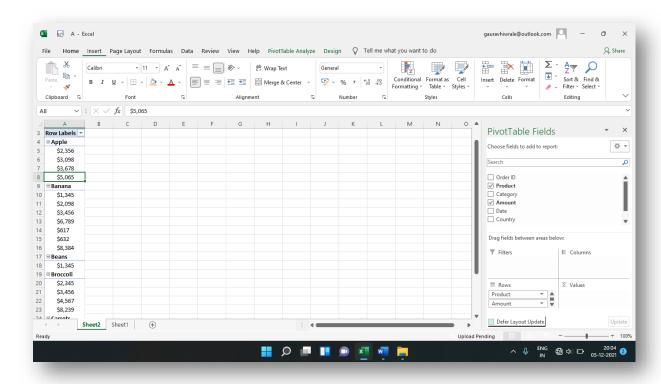
- 5. Then press ok to see the result.
- 6. After you hit OK you will see a pivot table placeholder on the left side, a pivot table field list on the right side and two contextual tabs to analyze and design pivot table will appear on ribbon.



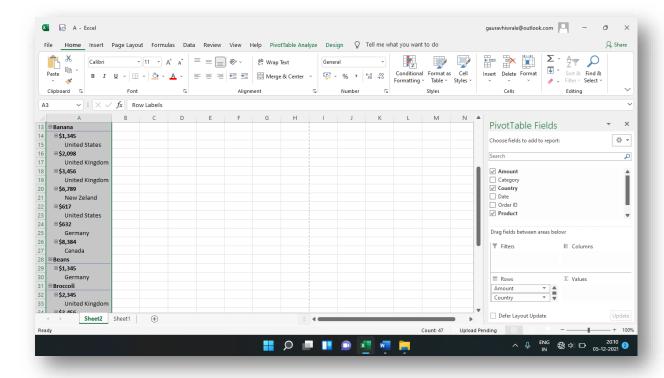
- 7. Now we have to create a pivot table by dragging the element. Drag fields:
- The Pivot Table Fields pane appears. To get the total amount exported of each product, drag the following fields to the different areas.
 - 1) Product field to the Rows area.



2) Amount field to the values area.



3) Country field to the Filters area.



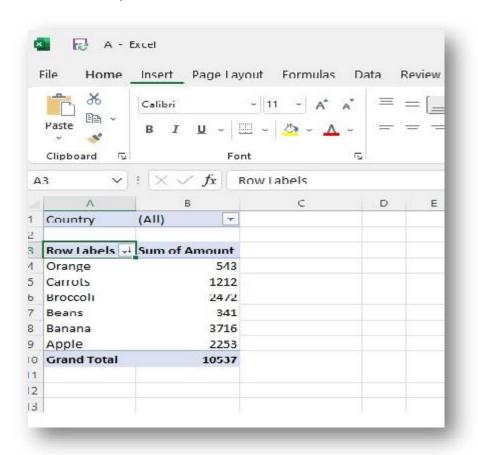
 Now we perform various operations on creating pivot table like sort and filter.

• SORT:

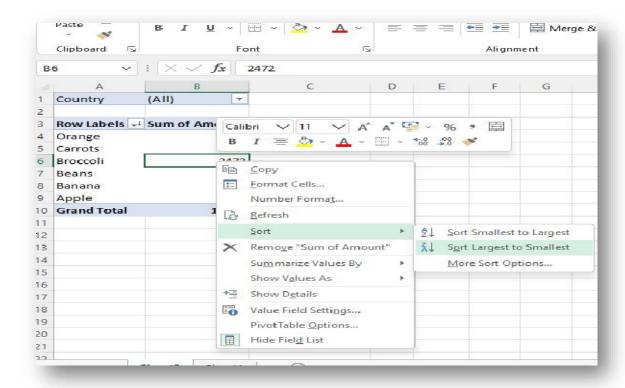
For example:

To get Banana at the top of the list, sort the pivot table.

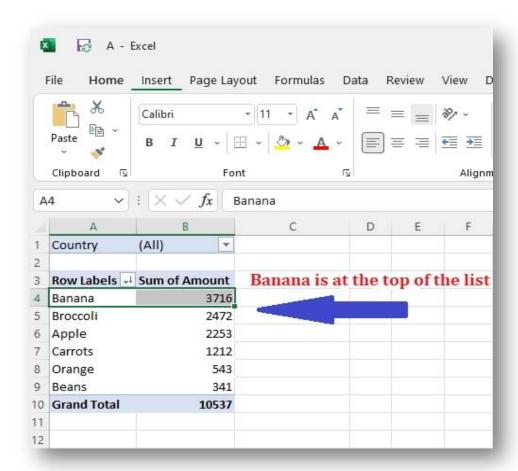
1. Click any cell inside the Sum of Amount column.



2. Right click and click on sort, sort Largest to Smallest.



Result:

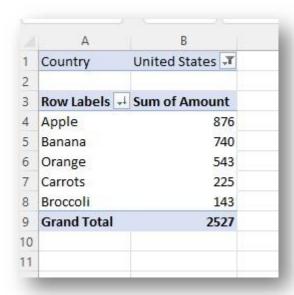


FILTER:

- Because we added the Country field to the Filter area, we can filter this pivot table by country. For example, which products do we export the most to the France?
- 1. Click the filter drop-down.
- 2. Select United States and press OK.



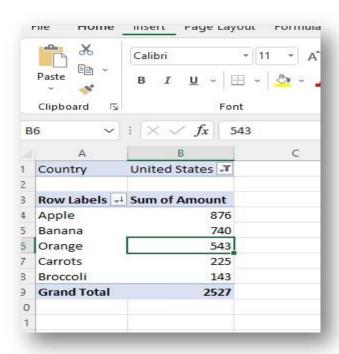
Result:



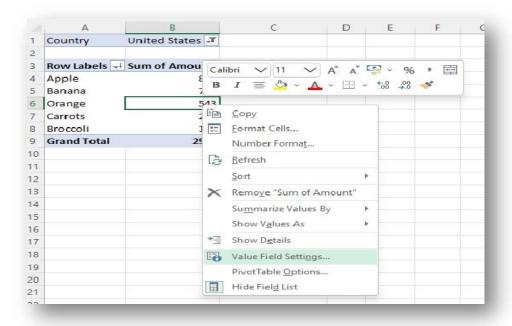
Change Summary calculations :

By default, Excel summarizes data by either summing or counting the items. To change the type of calculations that you want to use, execute the following steps.

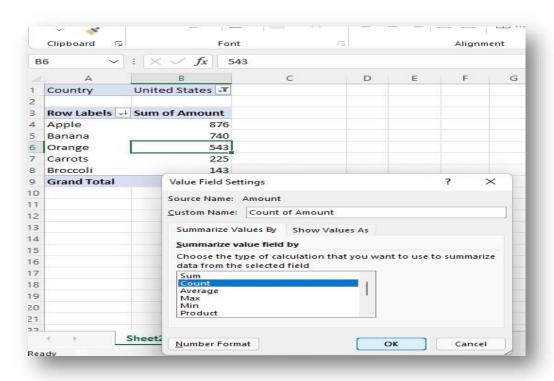
1. Click any cell inside the sum of Amount colum.



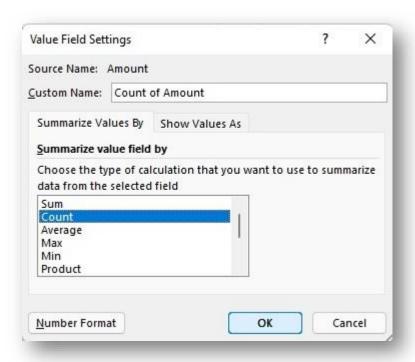
2. Right click and click on the value field settings.



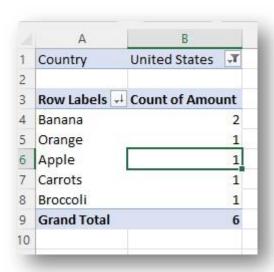
3. Choose the type of the calculation you want to use. For example, click count.



4. Click OK.

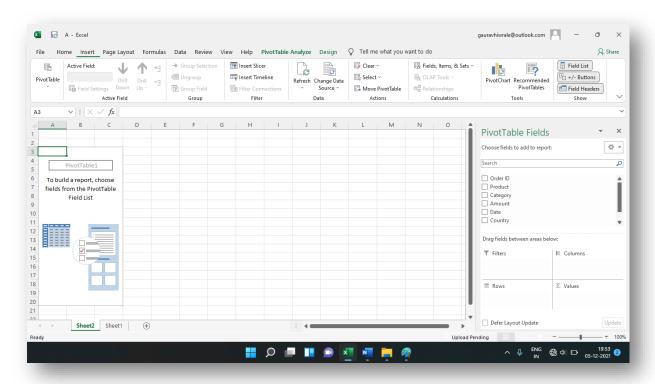


5. Result:



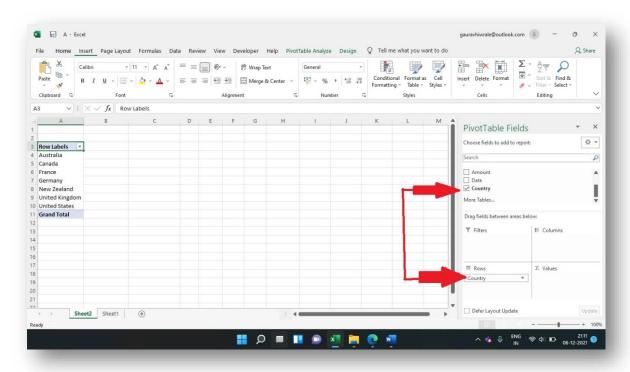
• Two-dimensional Pivot Table:

- If you drag a field to the Rows area and Columns area, you can create a two dimensional pivot table.
- First, insert a pivot table.

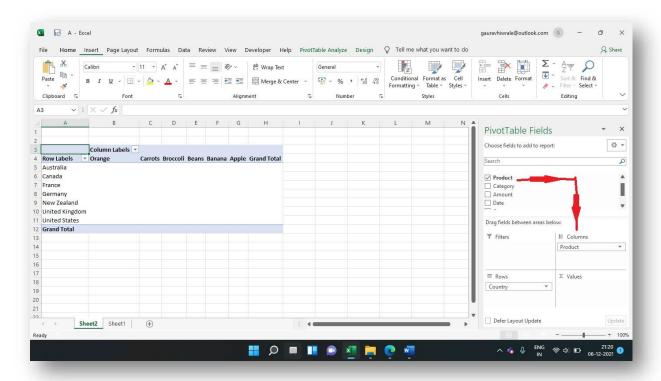


Next, to get the total amount exported to each country, of each product, drag the following fields to the different areas. 1. Country field to the Rows area.

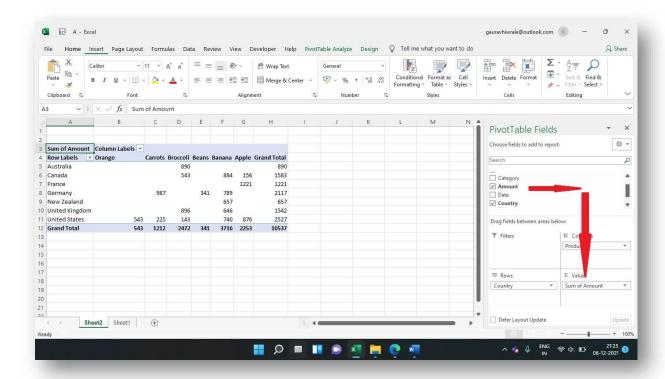
1. Country field to the Rows area.



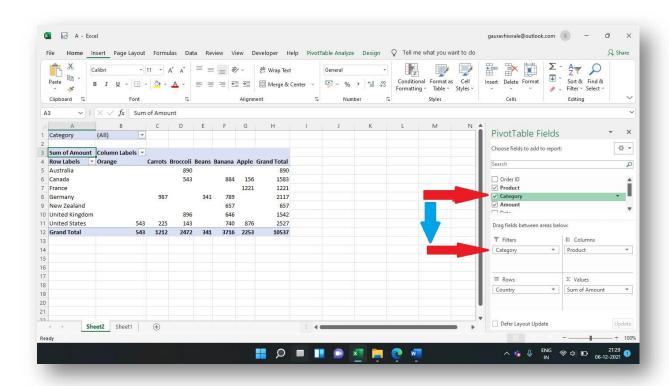
2. Product field to the Columns area.



3. Amount field to the Values area.



4. Category field to the Filters area.



Discussion and conclusion:

After studying this practical we can understand to insert table and pivot table. We get to know that how use of pivot table help us to differentiate and analyze data easily, conveniently and quickly.it also tells us about how to perform operation like sort and filterand also about change summary calculations. Studying this practical helps us in creating two dimensional pivot table .

Assessment details:

Data of Evaluation	Grade	Sign & Remark (if
		any)
	Data of Evaluation	Data of Evaluation Grade