



# Symbiosis University of Applied Sciences, Indore

India's First Skill University

## **SKILL JOURNAL**

Enrollment Number – 2019BTCS088

Year of Enrollment – 2019

Name of the Student – YASH GUPTA

School of COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Program – B. TECH

Specialization/ Branch – CS&IT

Semester – 4<sup>TH</sup>

Section – B2

Branch – CS&IT

Paper Code – BTCS04CF01

Name of Paper – Business Processes & MIS in BFSI

Faculty-In-Charge – AMRITA CHAURRASIA MAM

# **CERTIFICATE**

**THE SKILL EXPERIMENTS  
ENTERED IN THIS JOURNAL HAVE BEEN  
SATISFACTORY PERFORMED BY**

**ENROLLMENT NO - 2019BTCS088 MR/MS YASH GUPTA  
STUDYING IN PROGRAM B. TECH BRANCH CS&IT IN  
SCHOOL OF COMPUTER SCIENCE & INFORMATION  
TECHNOLOGY  
DURING SEMESTER 4<sup>TH</sup> OF ACADEMIC YEAR 2020-2021**

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**(Faculty in charge)**

**Date:** \_\_\_\_\_

# INDEX

[illegible]

# SKILL ACTIVITY NO: 1

Date: June 09<sup>th</sup>, 2021

## Title: Creating Pivot Chart in MS-Excel

SKILL ACTIVITY-01  
Title: Creating Pivot Chart in MS-Excel

1. What is the purpose of this Activity? (Explain in 3-4 lines)

The purpose of this activity is to create a pivot table in MS-Excel. A pivot table allows you to extract the significance from a large, detailed data set.

Following use cases can be solved by Pivot Table:

- a. Sort information by category easier.
- b. Compare information is seconds.
- c. Time saver
- d. Interactive Data Analysis

2. Steps performed in this Activity. (Explain in 5-6 lines)

Steps performed to insert a Pivot Table:-

- Step ①: Click any single cell inside the dataset.
- Step ②: On the Insert Tab, in the Tables group, click PivotTable.
- Step ③: Excel automatically selects the data for you. The default location for a New pivot table is New Worksheet. Click OK. Then to get the total amount exported of each product, drag the following fields to the different areas:
  - a. Product field to the Rows area.
  - b. Amount field to the Values area.
  - c. Country field to the Filter area.

1/2 Dimensional Pivot Table } Step ⑤: If you drag a field to the Rows area & 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.
2. Product field to the Columns area.
3. Amount field to the Values area.
4. Category field to the Filter area.

3. What resources/equipment/tools did you use for this activity?

a. Microsoft Excel (version 2015)

b. Laptop/Computer

c. Realworld Dataset from Internet

4. What skills did you acquire?

a. We get to know how Pivot Table works (Behind the scene calls COUNTES(), SUMIFS() & SUMPRODUCT()).

b. How to create 2D Table pivot chart?

c. Realworld use cases of pivot chart in MIS data analysis

5. Time taken to complete this activity? 02:00 (HOURS)

Yogesh

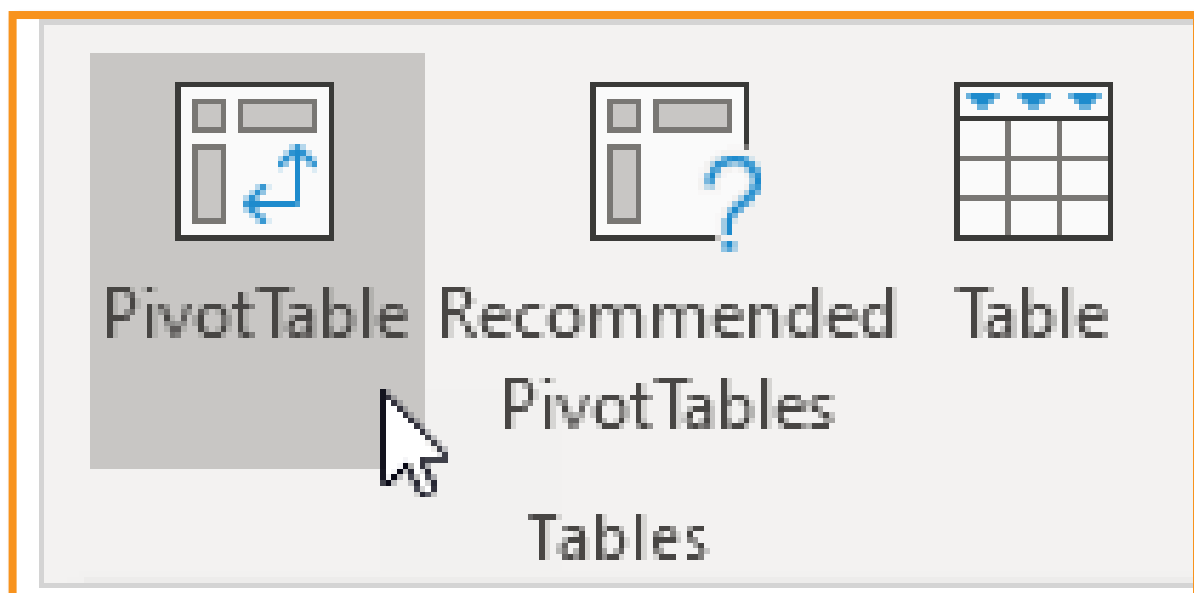
Signature of Student

## Details of the Activity:

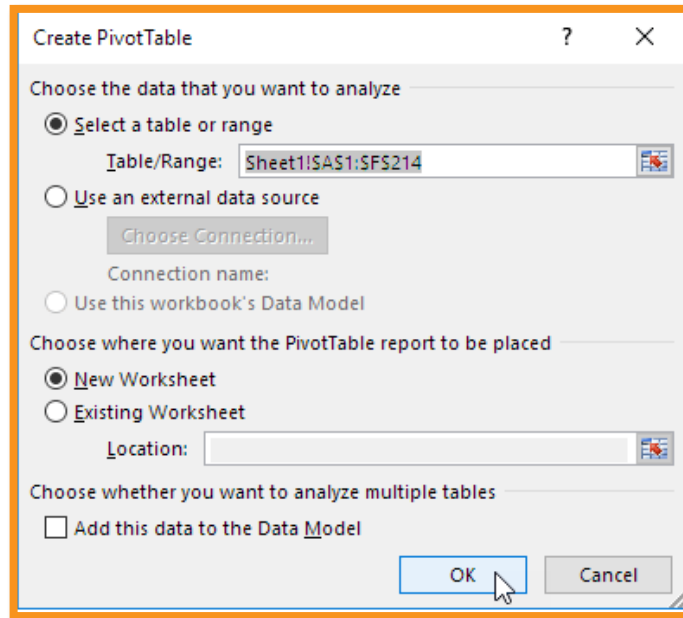
### DATASET IN MS-EXCEL:

	A	B	C	D	E	F	G	H
1	Order ID	Product	Category	Amount	Date	Country		
2	1	Carrots	Vegetables	\$4,270	1/6/2016	United States		
3	2	Broccoli	Vegetables	\$8,239	1/7/2016	United Kingdom		
4	3	Banana	Fruit	\$617	1/8/2016	United States		
5	4	Banana	Fruit	\$8,384	1/10/2016	Canada		
6	5	Beans	Vegetables	\$2,626	1/10/2016	Germany		
7	6	Orange	Fruit	\$3,610	1/11/2016	United States		
8	7	Broccoli	Vegetables	\$9,062	1/11/2016	Australia		
9	8	Banana	Fruit	\$6,906	1/16/2016	New Zealand		
10	9	Apple	Fruit	\$2,417	1/16/2016	France		

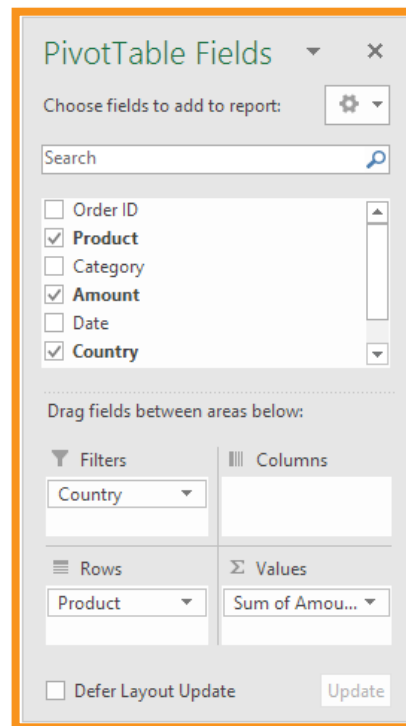
### INSERT A PIVOT TABLE:



## INSERT A PIVOT TABLE:



## SELECTING FIELDS:





## PIVOT TABLE:

	A	B	C
1	Country	(All)	
2			
3	Row Labels	Sum of Amount	
4	Apple	191257	
5	Banana	340295	
6	Beans	57281	
7	Broccoli	142439	
8	Carrots	136945	
9	Mango	57079	
10	Orange	104438	
11	Grand Total	1029734	
12			

## CATEGORISING FIELDS TO FILTER AREA FOR 2D CHART:





### PivotTable Fields

Choose fields to add to report: 

Search 

- ☐ Order ID
- ☒ Product
- ☒ Category
- ☒ Amount
- ☐ Date
- ☒ Country

Drag fields between areas below:

 Filters	 Columns
Category	Product
 Rows	 Values
Country	Sum of Amou...

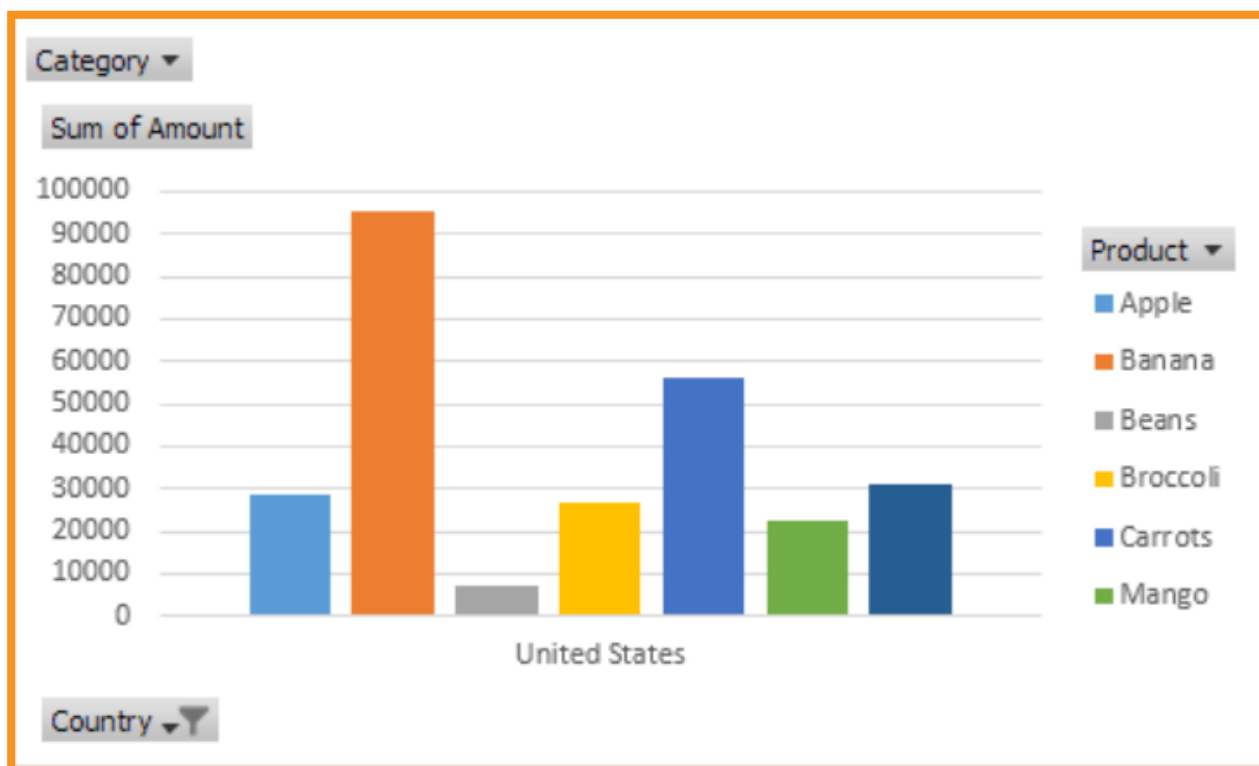
☐ Defer Layout Update Update



## 2-DIMENSIONAL PIVOT TABLE:

	A	B	C	D	E	F	G	H	I	J
1	Category	(All)								
2										
3	Sum of Amount	Column								
4	Row Labels	Apple	Banana	Beans	Broccoli	Carrots	Mango	Orange	Grand Total	
5	Australia	20634	52721	14433	17953	8106	9186	8680	131713	
6	Canada	24867	33775		12407		3767	19929	94745	
7	France	80193	36094	680	5341	9104	7388	2256	141056	
8	Germany	9082	39686	29905	37197	21636	8775	8887	155168	
9	New Zealand	10332	40050		4390			12010	66782	
10	United Kingdom	17534	42908	5100	38436	41815	5600	21744	173137	
11	United States	28615	95061	7163	26715	56284	22363	30932	267133	
12	Grand Total	191257	340295	57281	142439	136945	57079	104438	1029734	
13										

## PIVOT CHART WITH DYNAMIC X FIELD:



## (To be filled by Faculty)

Sr. No.	Skill /Competencies	(Achieved / Not Achieved) (Yes / No)

Remarks:

Total mark \_\_\_\_\_ out of 10.

Signature of Faculty

Date: \_\_\_\_\_

## SKILL ACTIVITY NO: 2

Date: June 10<sup>th</sup>, 2021

### Title: Implementation of Slicer in MS-Excel

#### SKILL-ACTIVITY-02

Title: Implementation of slicer in MS-Excel.

1. What is the purpose of this activity? (Explain in 3-4 lines)  
The purpose of this activity is to implement slicer in ~~the~~ Pivot-Table of any regular Table in MS-Excel. We add slicers to regular Excel tables for performing 'auto-filter' & 'filter' operation on our <sup>pivot</sup> table data. Finally, it's an add-on tool for PivotTable, so that data analysts/scientists/engineers can visualize data very easily & able to make most accurate prediction. We can ~~connect~~ <sup>connect</sup> multiple slicers to multiple pivot tables to create awesome reports.

2. Steps performed in this activity. (Explain in 5-6 lines)

For inserting a slicer in a pivot-table, we will execute the following steps:-

→ Step ①: Go to Open your Microsoft Excel, select a blank worksheet.  
→ Step ②: Go to Insert Tab. Under Insert Tab, click any cell inside pivot table. { we assume that you already have 1 pivot table in your worksheet }

Inserting First Slicer

→ Step ③: On the Analyze Tab, in the Filter Group, click Insert Slicer.  
→ Step ④: Check 'Region' and click OK.  
→ Step ⑤: Click 'Atlanta' to find out which products we export the most to 'Atlanta'

Conclusion: Both Apple & Peach are the main export product to the Atlanta. The report filter (cell B5) changes to, Atlanta.

Inserting Second Slicer

→ Step ⑥: Insert second slicer, so click any cell inside pivot table.  
→ Step ⑦: On the Analyze tab, in the Filter group, click Insert Slicer.  
→ Step ⑧: Check 'Item' and click OK.

→ Step ⑨: Select the slicer. On the options tab, in the slicer styles group, click a slicer style.  
→ Step ⑩: Use the second slicer. Click the multi-select button to select multiple ~~possible~~ items. NOTE: Instead of using MULT-Select button, Hold down CTRL to select multiple items.

→ Step ⑩: Insert a second pivot table. To connect both slicers to this pivot table, we -

↳ a. Select the first slicer  
↳ On the options tab, in the slicer group, click Report Connections.

→ Step ⑪: select the second pivot table & click OK. Then simply repeat the ⑩<sup>th</sup> step for the second slicer. Use both slicers as they will indicate the correlation (between each other)

→ Step ⑫: click the icon in the upper-right corner of a slicer to clear the filter.

3. What tools/equipments/materials did you use for this activity?  
a. Microsoft Excel (version 2005)  
b. laptop/computer  
c. Dataset from excel-easy.com website.

4. What skills did you acquire?  
a. We get to know how to utilize pivot table by using slicers  
b. Understand the need of slicers to make awesome data analysis reports (via use of Multi-Select slicer button)  
c. Implementation of slicer in ms excel & solving realworld use case problem.

5. Time taken to complete this activity? 02:00 (HOURS)

Y. Gupta  
Signature of Students

## (To be filled by Faculty)

Sr. No.	Skill /Competencies	(Achieved / Not Achieved) (Yes / No)

Remarks:

Total mark \_\_\_\_\_ out of 10.

Signature of Faculty

Date: \_\_\_\_\_

## Details of the Activity:

### USE OF SLICER FUNCTION IN MS-EXCEL:

Month	Region	Item	Sales
1	Atlanta	Apple	19
1	Boston	Apple	34
1	Chicago	Apple	12
2	Atlanta	Apple	26
2	Boston	Apple	40
2	Chicago	Apple	22
3	Atlanta	Apple	50
3	Boston	Peach	60
3	Chicago	Peach	33
1	Atlanta	Peach	99
1	Boston	Peach	43
1	Chicago	Peach	33
2	Atlanta	Peach	77
2	Boston	Peach	40
2	Chicago	Peach	23
3	Atlanta	Peach	33
3	Boston	Peach	33
3	Chicago	Peach	19

### SUMMARIZED DATA TABLE OF OUR DATASET:

Month	(All)				
Sum of Sales	Column Labels				
Row Labels	Atlanta	Boston	Chicago	Grand Total	
Apple	95	74	34	203	
Peach	209	176	108	493	
Grand Total	304	250	142	696	

## USE OF SLICER FUNCTION IN MS-EXCEL:

Month	Item	Region	Sales
1	Apple	Atlanta	12
2	Peach	Boston	19
3		Chicago	22
			23
			26
			33
			34
			40





## SKILL ACTIVITY NO: 3

Date: June 19<sup>th</sup>, 2021

### Title: Importing data into MS-Excel

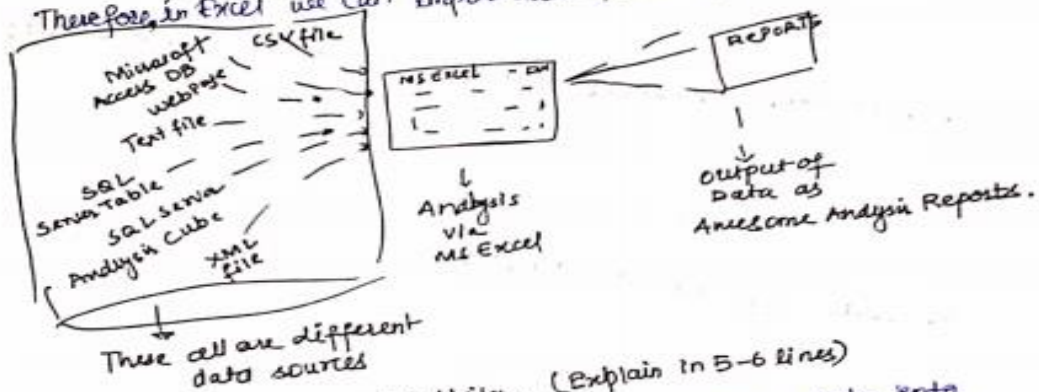
#### SKILL ACTIVITY-03

##### Title: Importing Data Into MS-Excel

1. What is the purpose of this activity? (Explain in 3-4 lines)  
The purpose of this activity is to understand the technique/way behind importing data into our MS-Excel software.  
Now why are we required to import it?

↳ Because we have to use data from various sources for analysis part → i.e. done by Data Scientists, Society Ops Team, & many more...

Therefore, in Excel we can import data from different data sources



2. Steps performed in this Activity. (Explain in 5-6 lines)  
There are multiple data sources for importing data into MS-Excel. But here, we are importing data from Web. So in order to perform that, we have to follow following steps: —

- ↳ Step ①: Open a New Blank worksheet in MS-Excel.
- ↳ Step ②: Click the DATA tab and on the Ribbon Bar.
- ↳ Step ③: Click From Web in the Get External Data group. The New Web Query dialog box appears.
- ↳ Step ④: Enter the URL of the web site from where you want to import data, in the box Next to Address & click Go.
- ↳ Step ⑤: The data on the website appears. There will be yellow arrow icons next to the table data that can be imported.



↳ Step ⑥: Click the yellow icons to select the data we want to import. This turns the yellow icons to green boxes with a checkmark as shown in the ss.

↳ Step ⑦: Click on the Import button after you have selected what we want. Then the Import Data dialog box appears.

↳ Step ⑧: Specify where we want to save the data and then click OK.

↳ Step ⑨: For better representation, arrange the data for further ~~and~~ analysis and/or presentation.

3. What tools/requirements/materials did you use for this activity?

- Microsoft Excel (version 2105)
- Laptop/Computer
- Dataset imported from <https://www.man.com/en-us/money>

4. What skills did you acquire?

- Why we need to import data into MS-Excel?
- How many kind of data sources are there?
- Way to import data into MS-Excel
- Importing data ~~into~~ from web into MS-Excel.

5. Time taken by this activity? 02:00 (Hours)

Yagupth

Signature of Student

## (To be filled by Faculty)

Sr. No.	Skill /Competencies	(Achieved / Not Achieved) (Yes / No)

Remarks:

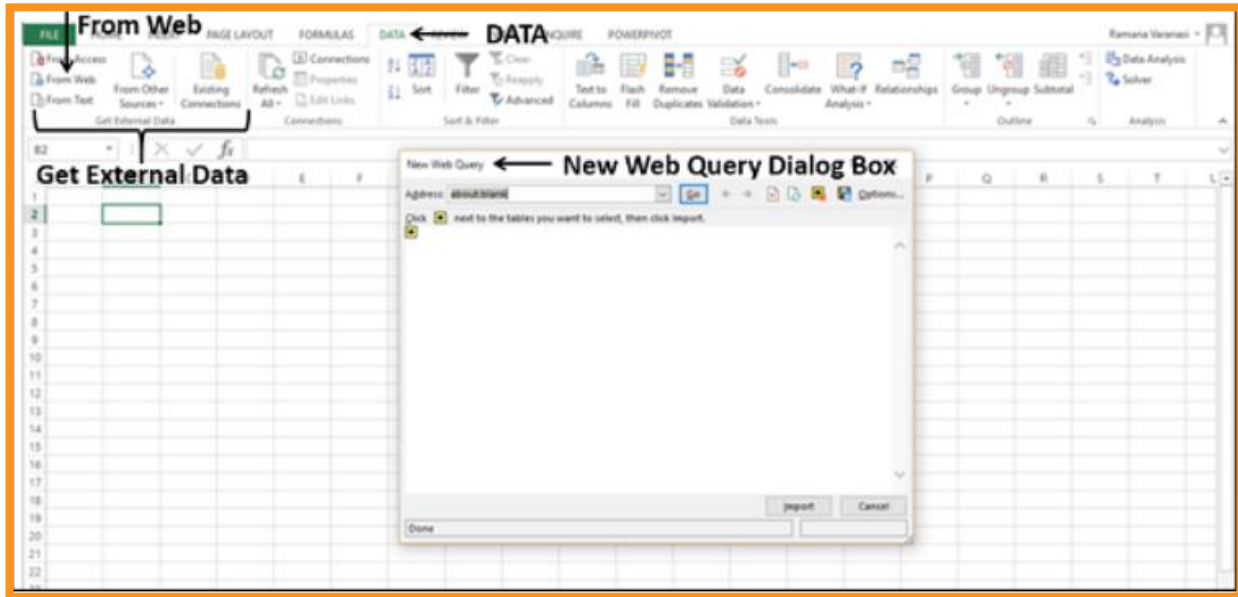
Total mark \_\_\_\_\_ out of 10.

Signature of Faculty

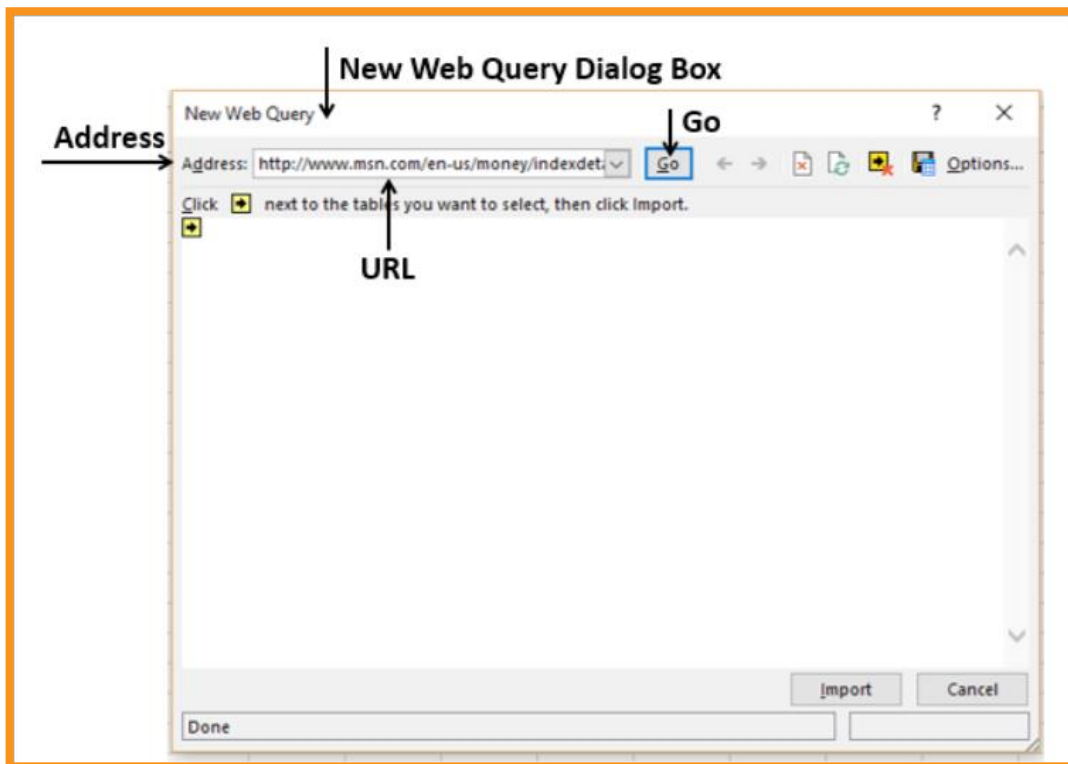
Date: \_\_\_\_\_

## Details of Activity

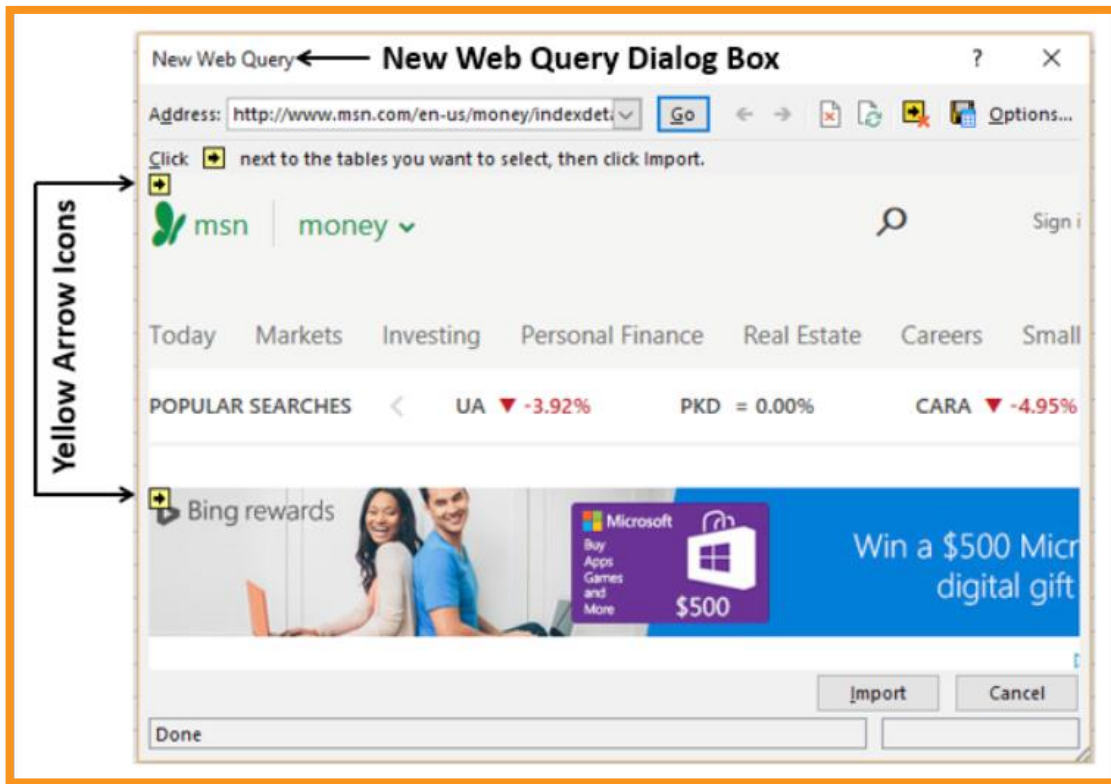
### IMPORTING DATA FROM WEB IN MS-EXCEL:



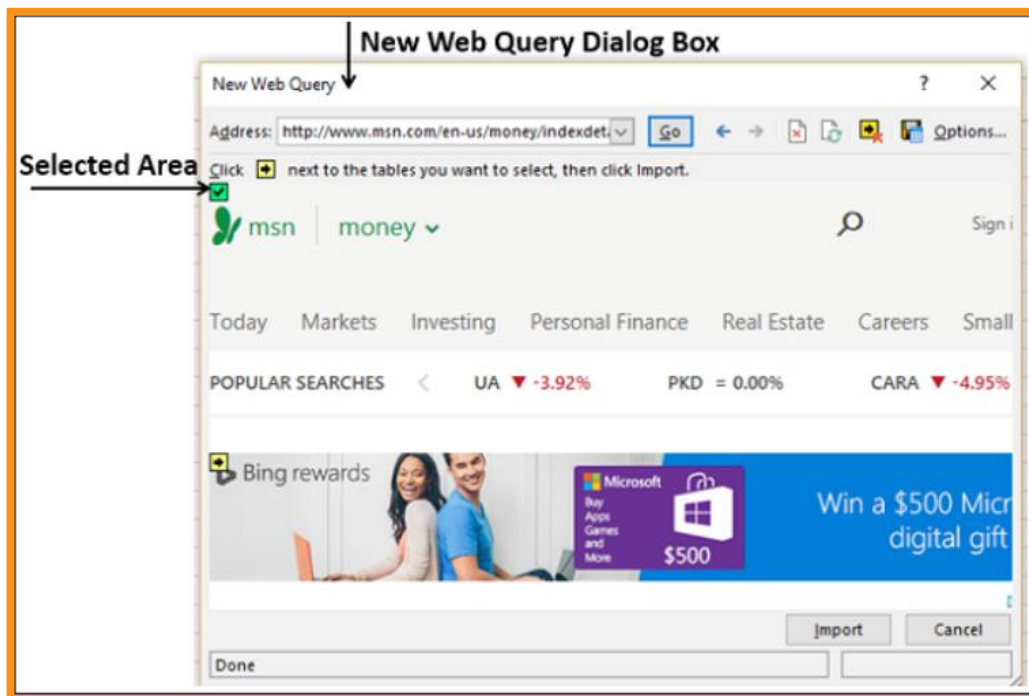
### ENTERING THE URL INTO MS-EXCEL WHICH WE WANT TO IMPORT:



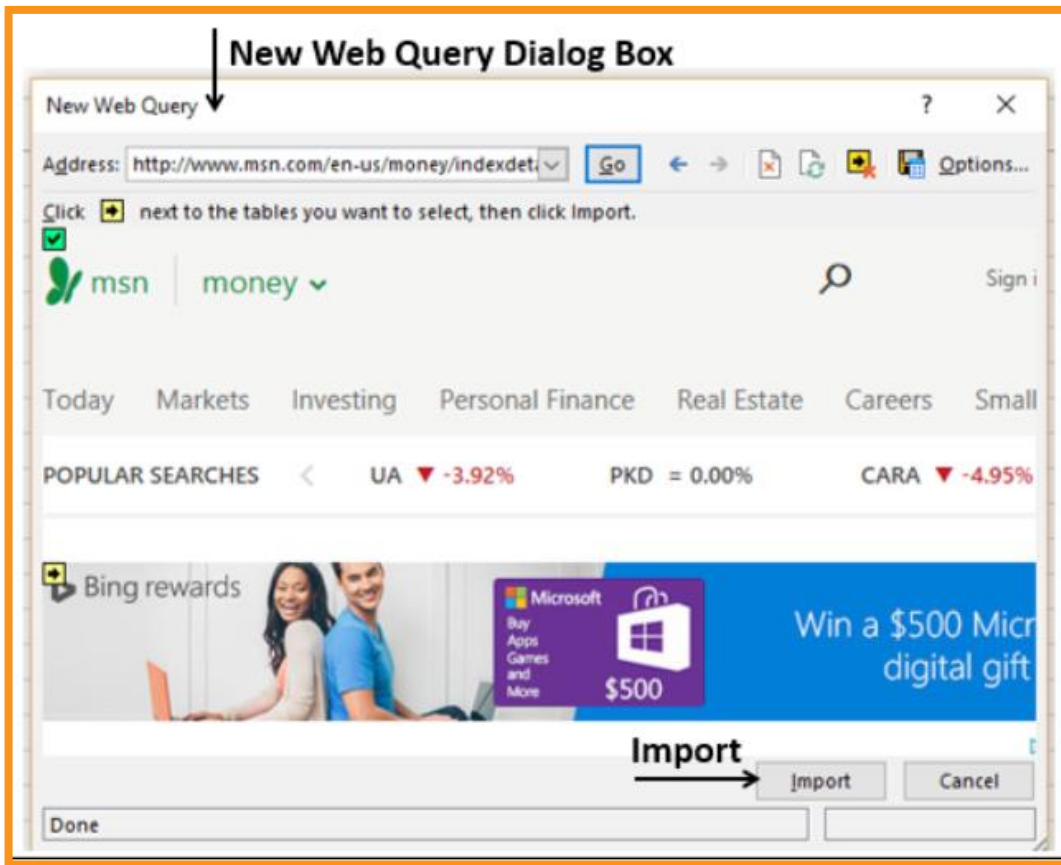
## SELECTED WEB QUERY DIALOG BOX:



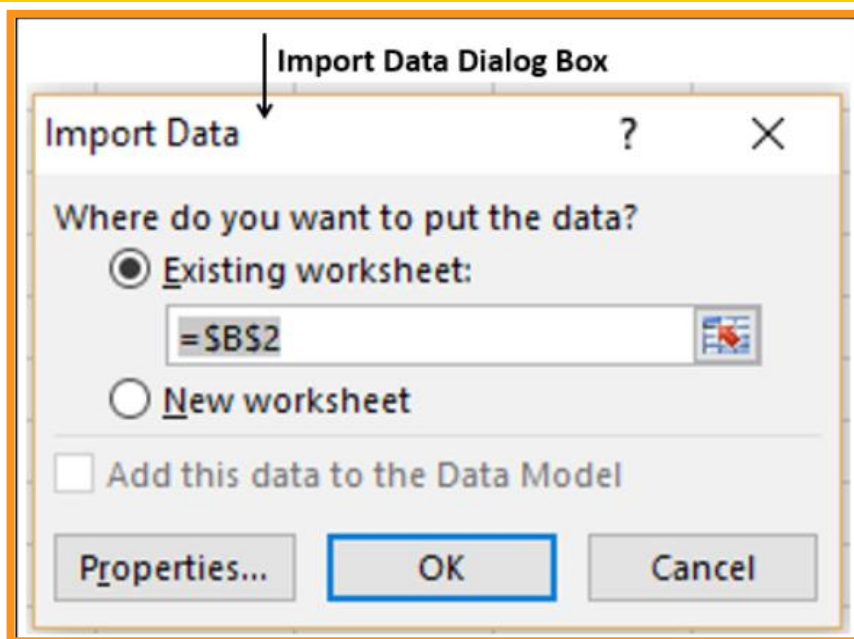
## TICKING THE SELECTED WEB QUERY DIALOG BOX:



## IMPORTING DATA FROM WEB QUERY DIALOG BOX:



## IMPORT DATA DIALOG BOX:



## STOCK MARKET DATA IMPORTED SUCCESSFULLY INTO MS-EXCEL:

	A	B	C	D	E	F	G	H
1								
2		NASDAQ						
3		4,952.25						
4		▲						
5		4.2						
6		0.08%						
7		Largest Components (By Market Cap)						
8								
9		AAPL						
10		Apple Inc						
11		▼ 98.46						
12		-1.4						
13		-1.40%						
14		29.17M						
15		39.21M (Avg)						
16		98.33-99.54						
17		89.47-132.97						
18		539.31B						
19		10.98						
20								
21		GOOGL						
22		Alphabet Inc						
23		▼ 748.46						

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## SKILL ACTIVITY NO: 4

Date: June 23<sup>rd</sup>, 2021

### Title: Creating Dropdown-list in MS-Excel via VLOOKUP & performing Data Validation

#### SKILL ACTIVITY-04

Title: Creating Dropdown-list in MS-Excel via VLOOKUP & performing Data Validation.

1. What is the purpose of this activity? (Explain in 3-4 lines)
- The purpose of this activity is to create dropdown list via using VLOOKUP and then implementing Data Validation on it.
- Now, VLOOKUP() in excel is used for looking a piece of information in a table or data set & extracting some corresponding data/information.

In layman terms, the VLOOKUP() says to Excel: -  
"Look for this piece of information (eg. bananas), in this dataset (a table) and tell me some corresponding information about it (eg: price of bananas)."

Formula of VLOOKUP: -

= VLOOKUP (lookup-value, table-array, col-index-num, [range\_lookup])

{ Required Argument }      { Optional Argument }

2. Steps performed in this Activity (Explain in 5-6 lines)
- ① Steps performed for VLOOKUP:
- ↳ Step ①: The first step to effectively use the VLOOKUP() is to make sure our data is well organised & suitable for using the function.
- ↳ Organise the Data
- ↳ Step ②: In this step, we tell EXCEL what to look for, we start by typing the formula "= VLOOKUP (" and then select the cell that contains the information we want to lookup. In this case, it's the cell that contains "Bananas".
- ↳ Tell the function what to lookup
- ↳ Step ③: In this step, we select the table where the data is located & tell Excel to search in the leftmost column for the information we selected in the previous step.
- ↳ Tell the function where to look in the Table.

→ Step 4: In this step, we need to tell Excel which column <sup>contains</sup> that data that we want to have as an output from the VLOOKUP. To do this, Excel needs a Number that ~~correl~~ corresponds to the column Number in the table.

→ Tell Excel what column to output the data from

→ Step 5: ~~Exact~~ The final step is to tell Excel if you are looking for an exact or approximate match by entering "True" or "False" in the formula.

→ To find exact or appropriate Match

3. What tools/equipments/materials did you use for this activity?

a. Microsoft Excel (Version 2105)

b. Laptop / Computer

c. Dataset downloaded from [www.abl.ebik.com](http://www.abl.ebik.com)

③ Steps performed for DATA Validation

→ Step 1: Open the data Validation Dialog box.

→ Step 2: Select one or more cells to validate. Go to the DATA tab > Data Tools group & then click Data Validation button

→ Step 3: Create an Excel Validation Rule:  
On the Settings tab, define the validation criteria according to our needs. We can provide 3 things as argument:

Values

Cell references

Formulas

→ Step 4: Add an Input message (optional)  
If we want to display a message that explains to the user what data is allowed in a given cell, open the Input Message tab.

→ Step 5: Display an error alert (optional)  
In addition to the input message, you can show many error alerts when invalid data is entered in a cell.



4. What skills did you acquire?

- Get to know what's the purpose of VLOOKUP  
Why we need it? Where to use it?
- All details regarding usage of VLOOKUP & its argument types in MS-Excel
- What is data validation? Why we need it? When to use & where to use it?
- How to perform Data Validation in MS-Excel? {we get to understand}

5. Time taken to complete this activity? 02:00 (HOURS)

Y Gupta  
Signature of Student

## Details of Activity:

### 1. VLOOKUP

## ORGANISING OUR DATA IN MS-EXCEL:

	A	B	C	D	E	F	G	H
1	<b>Good Table</b>				<b>Bad Table</b>			
2								
3	<b>Fruit</b>	<b>In Stock?</b>	<b>Price (\$/lb)</b>		<b>In Stock?</b>	<b>Price (\$/lb)</b>	<b>Fruit</b>	
4	Grapes	Yes	7.25		Yes	7.25	Grapes	
5	Mangos	Yes	12.32		Yes	12.32	Mangos	
6	Bananas	Yes	5.42		Yes	5.42	Bananas	
7	Pineapple	No	7.18		No	7.18	Pineapple	
8	Oranges	Yes	8.99		Yes	8.99	Oranges	
9								
10	<b>Fruit</b>	<b>Price</b>			<b>Fruit</b>	<b>Price</b>		
11	Bananas	=VLOOKUP(A11,A4:C8,3,FALSE)			Bananas	#N/A		
12								
13								
14								
15								

## TELLING THE FUNCTION WHAT TO LOOKUP FOR:

EFFECT    X    ✓    fx    =VLOOKUP(A11,A4:C8,3,FALSE)

	A	B	C	D
1	Good Table			
2				
3	Fruit	In Stock?	Price (\$/lb)	
4	Grapes	Yes	7.25	
5	Mangos	Yes	12.32	
6	Bananas	Yes	5.42	
7	Pineapple	No	7.18	
8	Oranges	Yes	8.99	
9				
10	Fruit	Price		
11	Bananas	=VLOOKUP(A11,A4:C8,3,FALSE)		
12				
13				
14				
15				

1. Look for this item

## SELECTING THE FUNCTION WHERE TO LOOK:

EFFECT    X    ✓    fx    =VLOOKUP(A11,A4:C8,3,FALSE)

	A	B	C	D
1	<b>Good Table</b>			
2				
3	<b>Fruit</b>	<b>In Stock?</b>	<b>Price (\$/lb)</b>	
4	Grapes	Yes	7.25	
5	Mangos	Yes	12.32	
6	Bananas	Yes	5.42	
7	Pineapple	No	7.18	
8	Oranges	Yes	8.99	
9				
10	<b>Fruit</b>	<b>Price</b>		
11	Bananas	=VLOOKUP(A11,A4:C8,3,FALSE)		
12				
13				
14				
15				

2. In the left column of this table

### DEFINING MS-EXCEL WHICH COLUMN TO OUTPUT THE DATA FROM:

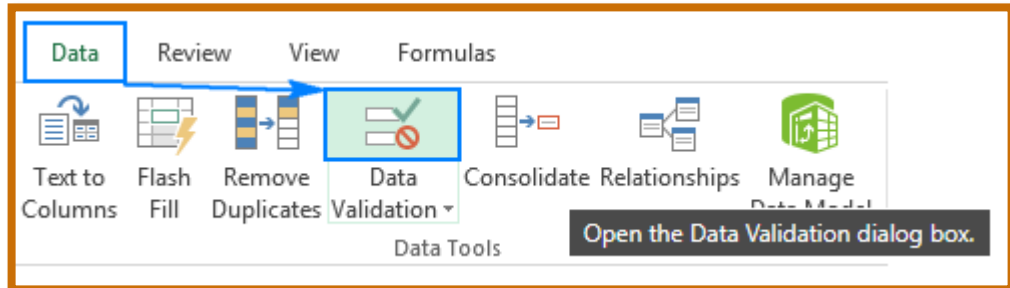
EFFECT    X    ✓    fx    =VLOOKUP(A11,A4:C8,3,FALSE)

	A	B	C	D
1	<b>Good Table</b>			
2				
3	<b>Fruit</b>	<b>In Stock?</b>	<b>Price (\$/lb)</b>	
4	Grapes	Yes	7.25	
5	Mangos	Yes	12.32	
6	Bananas	Yes	5.42	
7	Pineapple	No	7.18	
8	Oranges	Yes	8.99	
9				
10	<b>Fruit</b>	<b>Price</b>		
11	Bananas	=VLOOKUP(A11,A4:C8,3,FALSE)		
12				
13				
14				
15				

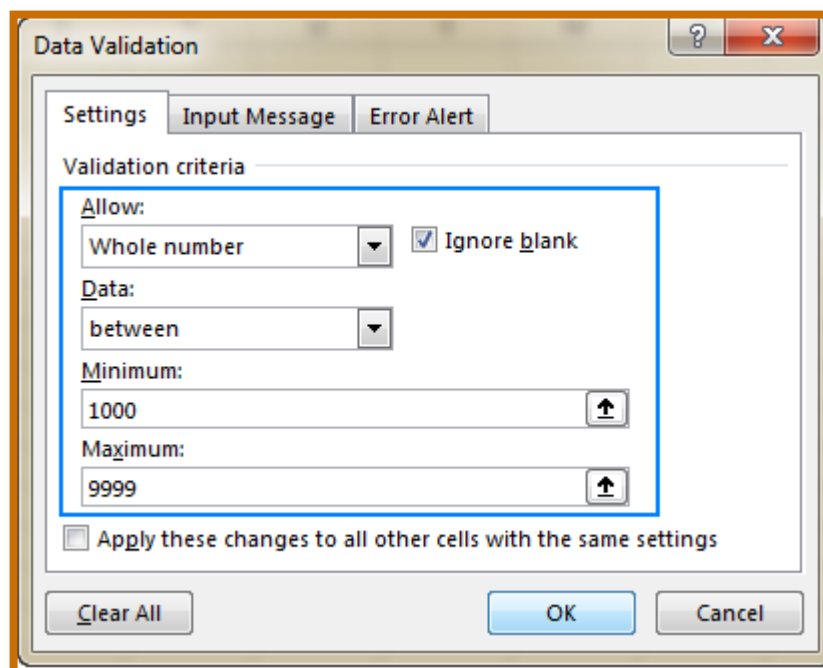
3. Return the corresponding information in this specified column

## 2. DATA VALIDATION:

### OPENING THE DATA VALIDATION DIALOG BOX:



### CREATE AN EXCEL VALIDATION RULE:



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## (To be filled by Faculty)

Sr. No.	Skill /Competencies	(Achieved / Not Achieved) (Yes / No)

Remarks:

Total mark \_\_\_\_\_ out of 10.

Signature of Faculty

Date: \_\_\_\_\_

## SKILL ACTIVITY NO: 5

Date: June 24<sup>th</sup>, 2021

### Title: Creating OLAP Data Cube in MS-Excel

#### SKILL ACTIVITY-05

Title: Creating OLAP Data Cube in MS-Excel

1. What is the purpose of this activity? (Explain in 3-4 lines)  
The purpose of this activity is to create Online Analytical Processing (OLAP) data cubes with the help of MS-Excel.

Now, a data cube is helpful in connecting to the data warehouse to retrieve data so that we can very easily manipulate it by using MS-Excel in a tabular fashion. When it is opened, a data cube is presented as a worksheet containing a Blank Pivot Table Report.

For Example: If a person had sales data from 2000 to 2010 that he wanted to organize by purchase amounts, an OLAP cube would organize the information into much more helpful graphs & tables.

2. Steps performed in this activity. (Explain in 4-5 lines)

Before building the data cube in excel let us take :-

- // If you have Datasheet  
// If you don't have Datasheet (pre-defined)
- Step ①: Create a pivot table from our main datasheet. or by "PivotTable and PivotChart Report".
  - Step ②: Then select "External Data Source" before pressing Next to Continue.
  - Step ③: Then press "Get Data" which will open the "Choose Data Source" dialogue.
  - Step ④: Now, select the program from the list in which your data is located. It could be Microsoft Excel, Word, Access/ Web/ Text file or another program that is used to store data.
  - Step ⑤: Create fact table by selecting all the field values as the filter and setting other parameters as well.
  - Step ⑥: Select the parameters we want to set as dimensions as of the data cube as the filter.



↳ Step ⑤: Copy all those 3 tables and paste them as pictures rotating them to the specific point to form a cube.

↳ Step ⑥: Align all the dimensions and fact tables properly to form our final data cube in MS-Excel.

↳ Step ⑦: To make the data work with Excel, select "Save a cube file containing all of the data for the cube", Press "Finish" to end the creation of our OLAP cube.

3. What Resources/equipments/tools did you use for this activity?

- Microsoft Excel (version 2105)
- Laptop/Computer
- Datasheet for Data Cube → <https://Hstillworks.com>

4. What skills did you acquire?

- Get to know about what, why, when, where to use OLAP?
- Need of OLAP to solve Relational databases problems
- Creation of Data Cube in Excel.
- Why we Need Data Cube, where to use it?
- Integration of Pivot Table with OLAP in order to create Data Cube

5. Time taken to complete this activity? 02:00 (HOURS)

Ygupta  
Signature of student

## (To be filled by Faculty)

Sr. No.	Skill /Competencies	(Achieved / Not Achieved) (Yes / No)

Remarks:

Total mark \_\_\_\_\_ out of 10.

Signature of Faculty

Date: \_\_\_\_\_



## OUR DATASHEET IN MS-EXCEL:

	A	B	C	D	E	F	G
1	Date	Invoice Nu	Customer	Product ID	Selling Pric	Units Sold	Total Sales
2	01-01-2021	Inv234	LS003	T001	39	2	78
3	01-01-2021	Inv234	LS003	T002	39	1	39
4	01-01-2021	Inv234	LS003	D001	89	1	89
5	01-01-2021	Inv234	LS003	D004	89	1	89
6	01-01-2021	Inv234	LS003	S005	45	1	45
7	01-01-2021	Inv234	LS003	B004	59	1	59
8	01-01-2021	Inv235	JO001	BS01	29	1	29
9	01-01-2021	Inv235	JO001	WS01	29	3	87
10	01-01-2021	Inv235	JO001	BS02	29	1	29
11	01-01-2021	Inv236	DL001	SJ03	79	1	79
12	01-01-2021	Inv236	DL001	BS01	29	2	58
13	01-01-2021	Inv237	MM001	S005	45	1	45
14	01-01-2021	Inv237	MM001	SS03	29	1	29
15	01-01-2021	Inv237	MM001	SS01	29	1	29
16	01-01-2021	Inv237	MM001	T001	29	2	58
17	01-01-2021	Inv238	JK003	BS01	29	1	29
18							

## CREATING A PIVOT TABLE:

?

×

Create PivotTable

Choose the data that you want to analyze

☒ Select a table or range

Table/Range:

Fact\_Sales!\$A\$1:\$G\$17

↑

☐ Use an external data source

Choose Connection...

Connection name:

☐ Use this workbook's Data Model

Choose where you want the PivotTable report to be placed

☒ New Worksheet
 ☐ Existing Worksheet

Location:

↑

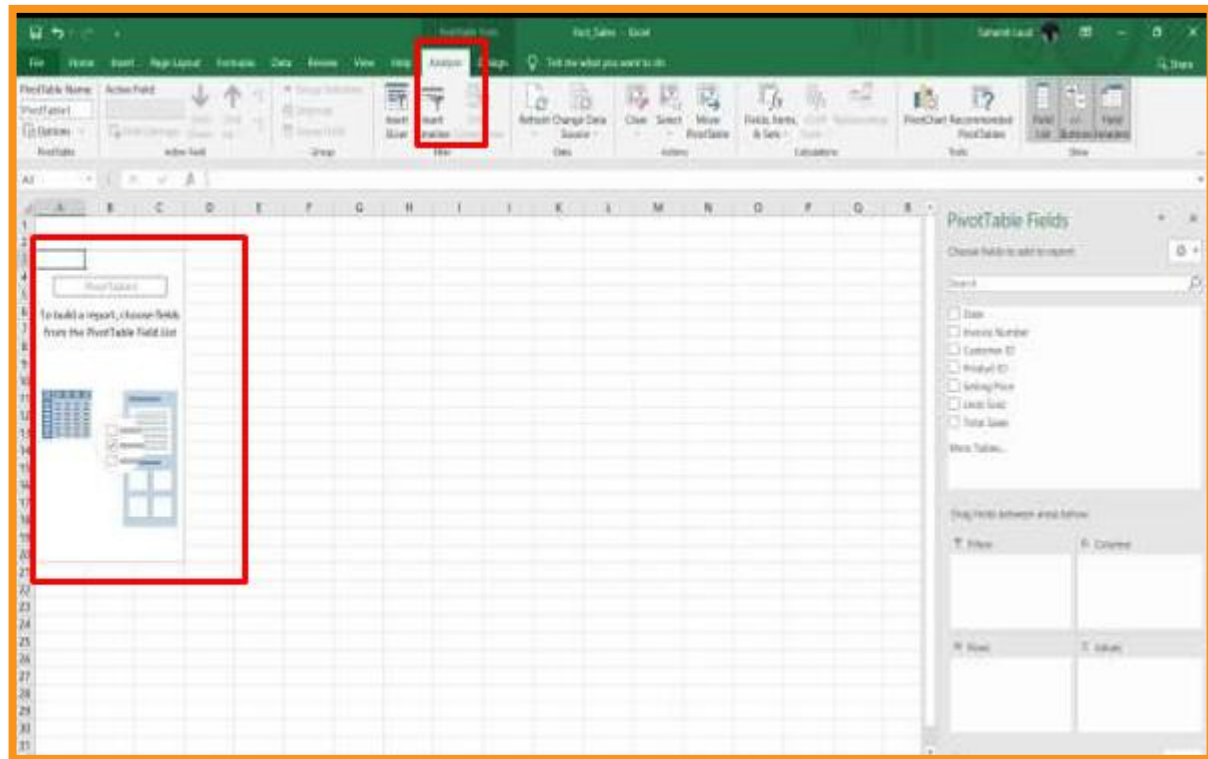
Choose whether you want to analyze multiple tables

☐ Add this data to the Data Model

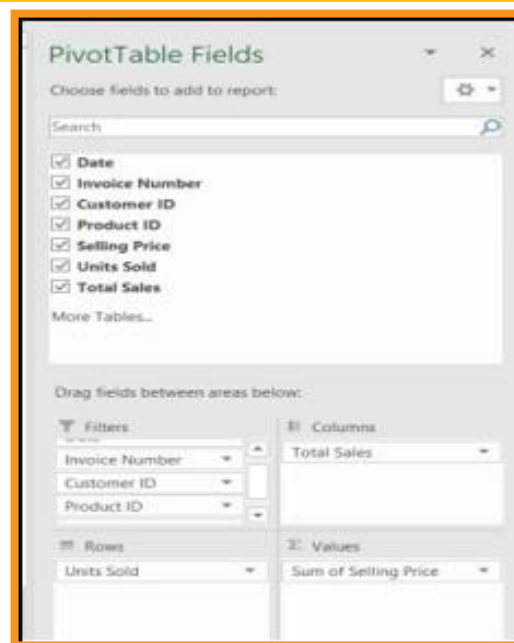
OK

Cancel

## PIVOT TABLE CREATED IN MS-EXCEL:



## SELECTING FIELDS FOR PIVOT TABLR IN MS-EXCEL:





### PIVOT FACT TABLE CREATED IN MS-EXCEL:

[illegible]

## SELECTING FIELDS FOR PIVOT FACT TABLE 1 IN MS-EXCEL:

### PivotTable Fields

Choose fields to add to report: 



☐ Date

☐ Invoice Number

☐ Customer ID

☒ **Product ID**





☒ **Selling Price**

☒ **Units Sold**

☒ **Total Sales**

More Tables...

Drag fields between areas below:

<div> <b>Filters</b></div> <div><div>Product ID</div><div></div></div>	<div> <b>Columns</b></div> <div><div>Total Sales</div><div></div></div>
<div> <b>Rows</b></div> <div><div>Units Sold</div><div></div></div>	<div><div> <b>Values</b></div><div><div>Sum of Selling Price</div><div></div></div></div>

☐ **Defer Layout Update**

Update

## SELECTING FIELDS FOR PIVOT FACT TABLE 2 IN MS-EXCEL:

**PivotTable Fields**

Choose fields to add to report:

Search

- ☐ Date
- ☐ Invoice Number
- ☒ **Customer ID**
- ☐ Product ID
- ☒ **Selling Price**
- ☒ **Units Sold**
- ☒ **Total Sales**

More Tables...

Drag fields between areas below:

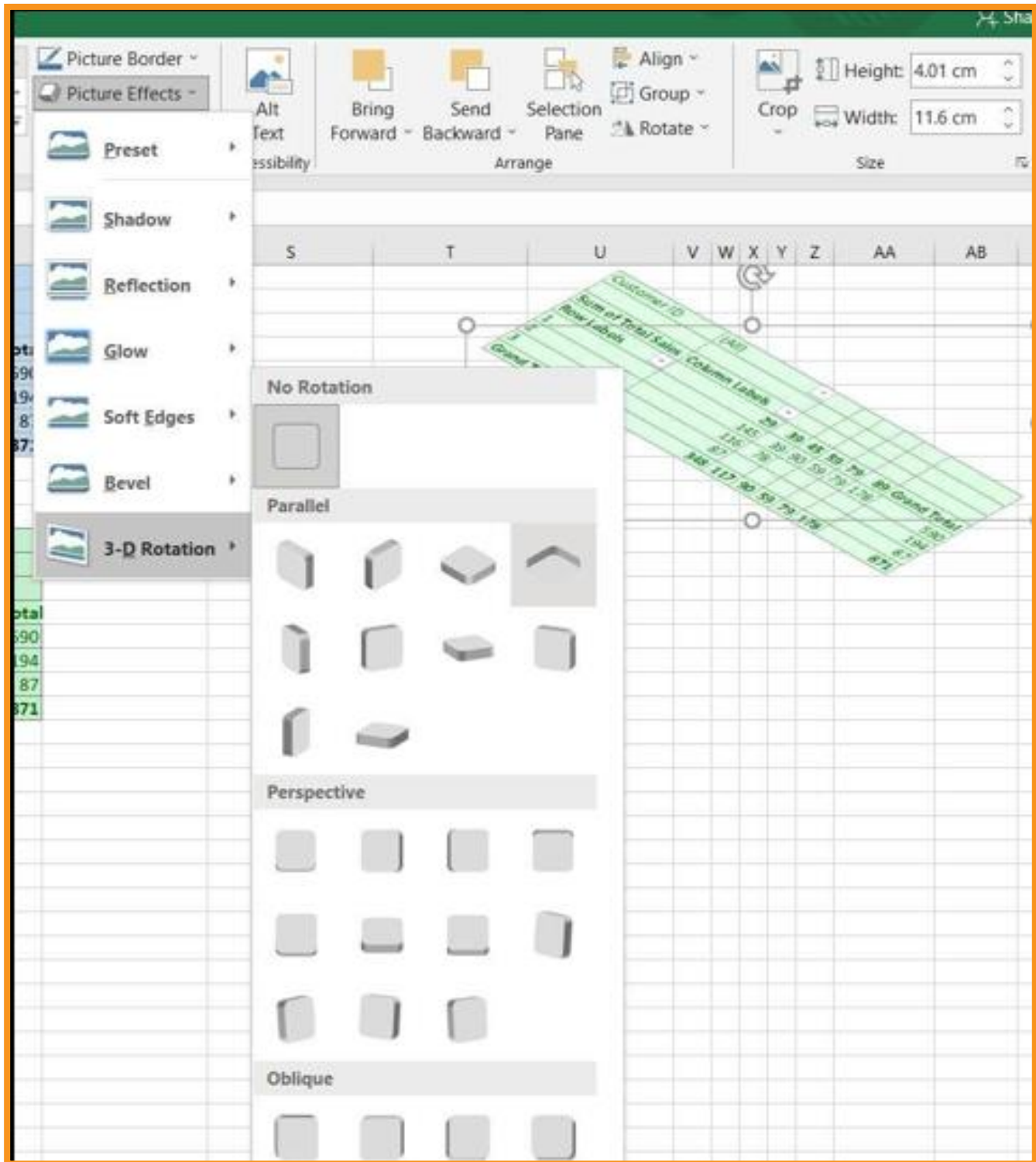
<b>Filters</b>	<b>Columns</b>
Customer ID	Total Sales
<b>Rows</b>	<b>Values</b>
Units Sold	Sum of Selling Price

☐ Defer Layout Update Update

## BOTH PIVOT FACT TABLE CREATED IN MS-EXCEL:

Product ID	(All)							
Sum of Total Sales	Column Labels							
Row Labels		29	39	45	59	79	89	Grand Total
1		145	39	90	59	79	178	590
2		116	78					194
3		87						87
Grand Total		348	117	90	59	79	178	871
	Dimension Table 1							
Customer ID	(All)							
Sum of Total Sales	Column Labels							
Row Labels		29	39	45	59	79	89	Grand Total
1		145	39	90	59	79	178	590
2		116	78					194
3		87						87
Grand Total		348	117	90	59	79	178	871
	Dimension Table 2							

## ROTATING OUR PIVOT TABLE IN MS-EXCEL:





## FINAL DATA CUBE IN MS-EXCEL:

