Business Analytics

Subject Code :- 22CAH-703

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Worksheet (Experiment 2)

Q1. Create a Pivot table to quickly summarize large databases, Group within Pivot Tables.
Q2. Create multiple Pivot Tables on a single worksheet.

Aim -:

To understand about concept of pivot table in excel sheet .

To understand about concept of grouping within pivot table .

To understand about concept of multiple pivot table .

To understand about various new commands in excel .

Algorithm/Flowchart :

a) **Pivot Table Algorithm:**

Prepare data with headers.

Insert pivot table, select data range.

Design by dragging fields (values, rows, columns, filters).

Customize using right-click and field settings.

b) **Grouping Data Algorithm:**

Organize data, select column.

Go to "Data" tab, click "Group".

Define grouping criteria (intervals, time).

Customize groups, rename, adjust criteria.

c) Working with Multiple Tables Algorithm:

Organize data into separate tables.

Choose method: formulas (VLOOKUP, INDEX-MATCH) or Power Query.

Use formulas for lookups, Power Query for merging.

Merge tables, specify join columns.

Load transformed data back into Excel

Dataset Table :-

Pivot table					
Name	Year	Product	Region	Sales	Units
Aman	2000	Car	East	$ 200.00	12
Deepak	2000	Bike	West	$ 400.00	15
Vishnu	2012	Truck	North	$ 500.00	18
Rahul	2007	Bus	South	$ 600.00	24
Vedant	2008	Car	East	$ 400.00	35
Aman	2009	Bike	West	$ 200.00	40
Deepak	2007	Truck	North	$ 400.00	12
Vishnu	2000	Bus	South	$ 500.00	15
Rahul	2007	Car	East	$ 600.00	18
Vedant	2010	Bike	West	$ 400.00	24
Aman	2008	Truck	North	$ 200.00	35
Deepak	2000	Bus	South	$ 400.00	40
Vishnu	2007	Car	East	$ 500.00	12
Rahul	2010	Bike	West	$ 600.00	15
Vedant	2010	Truck	North	$ 400.00	18
Aman	2007	Bus	South	$ 200.00	24
Deepak	2008	Car	East	$ 400.00	35
Vishnu	2009	Bike	West	$ 500.00	40
Rahul	2010	Truck	North	$ 600.00	24
Vedant	2008	Bus	South	$ 400.00	40
Aman	2007	Bus	South	$ 200.00	24
Deepak	2008	Car	East	$ 400.00	35
Vishnu	2009	Bike	West	$ 500.00	40
Rahul	2010	Truck	North	$ 600.00	24
Vedant	2008	Bus	South	$ 400.00	40
Aman	2007	Bus	South	$ 200.00	24
Deepak	2008	Car	East	$ 400.00	35
Vishnu	2009	Bike	West	$ 500.00	40

Pivot table and group within pivot table :

Sum of Units		Year						
Name	Region	2000	2007	2008	2009	2010	2012	Grand Total
Aman		12	72	35	40			159
	East	12						12
	North			35				35
	South		72					72
	West				40			40
Deepak		55	12	105				172
	East			105				105
	North		12					12
	South	40						40
	West	15						15
Rahul			42			63		105
	East		18					18
	North					48		48
	South		24					24
	West					15		15
Vedant				115		42		157
	East			35				35
	North					18		18
	South			80				80
	West					24		24
Vishnu		15	12		120		18	165
	East		12					12
	North						18	18
	South	15						15
	West				120			120
Grand Total		82	138	255	160	105	18	758

Multiple pivot table on a single worksheet :

Sum of Year	Column Labels							
Row Labels		2000	2007	2008	2009	2010	2012	Grand Total
Bike		2000			8036	4020		14056
Bus		4000	8028	4016				16044
Car		2000	4014	8032				14046
Truck			2007	2008		6030	2012	12057
Grand Total		8000	14049	14056	8036	10050	2012	56203

Row Labels	Sum of Sales	Sum of Units
East	2900	182
North	2700	131
South	2900	231
West	3100	214
Grand Total	11600	758

Row Labels	Sum of Sales
Aman	1200
Bike	200
Bus	600
Car	200
Truck	200
Deepak	2400
Bike	400
Bus	400
Car	1200
Truck	400
Rahul	3000
Bike	600
Bus	600
Car	600
Truck	1200
Vedant	2000
Bike	400
Bus	800
Car	400
Truck	400
Vishnu	3000
Bike	1500
Bus	500
Car	500
Truck	500
Grand Total	11600

Learning outcomes (What I have learnt):

1. Learn about pivoting a table .

2. Learn about grouping a table .

3. Learn about multiple pivot table on a single worksheet .