### **TIS1101 Database Fundamentals**

# Lab 10 (e-learning mode)

#### Part A

- i. List down the phases in the DBLC and briefly discuss the activities for each phase.
- ii. List down the steps required in the development of an ER diagram.
- iii. What are the differences between data warehouse and data mart?

#### Part B: Practical (self-learning)

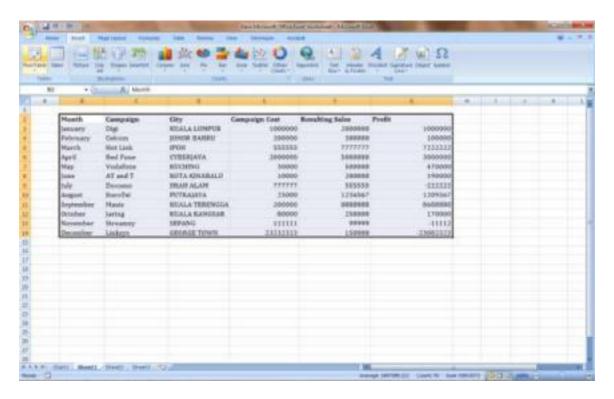
We are going to use Pivot table to create multidimensional views of data. A pivot table is a data analysis tool used to create multidimensional data views by dragging and dropping column headings to move data around. Microsoft Excel has a pivot table tool.

1. Enter the following data into Excel.

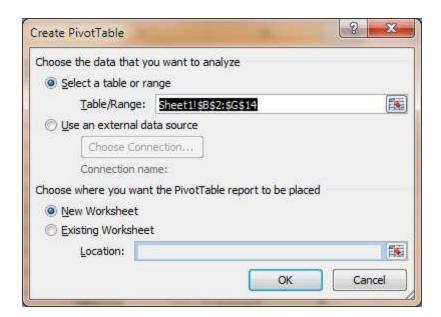
Month	Campaign	City	Cost	Sales	Profit
January	Digi	KUALA LUMPUR	1000000	2000000	1000000
February	Celcom	JOHOR BAHRU	200000	300000	100000
March	Hot Link	IPOH	555555	7777777	7222222
April	Red Fone	CYBERJAYA	2000000	5000000	3000000
May	Vodafone	KUCHING	30000	500000	470000
June	AT and T	KOTA KINABALU	10000	200000	190000
July	Docomo	SHAH ALAM	777777	555555	-222222
August	EuroTel	PUTRAJAYA	25000	1234567	1209567
September	Maxis	KUALA TERENGGANU	200000	888888	8688888
October	Jaring	KUALA KANGSAR	80000	250000	170000
November	Streamxy	SEPANG	111111	99999	-11112
December	Linksys	GEORGE TOWN	23232323	150000	-23082323

<sup>\*</sup>Note: Submit Q1 to Q3 to your respective tutor

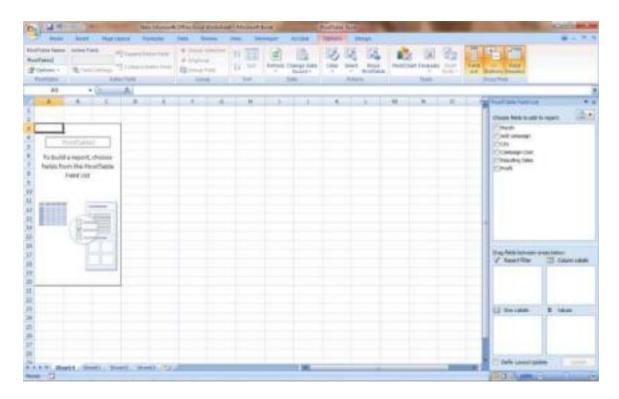
2. Go to "Insert" tab and click at the "PivotTable". Select the option "PivotTable".



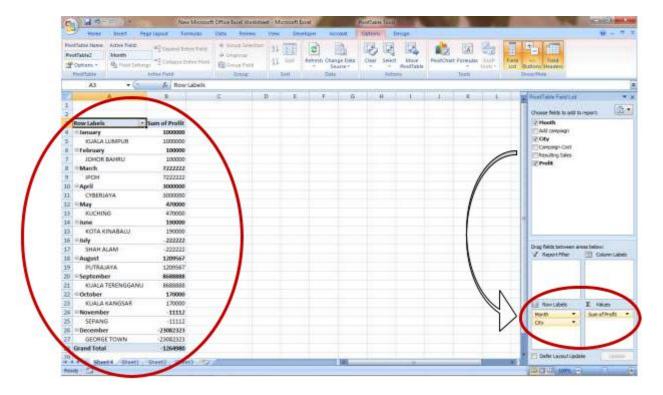
3. You should see the dialog box below. Click "OK" button.



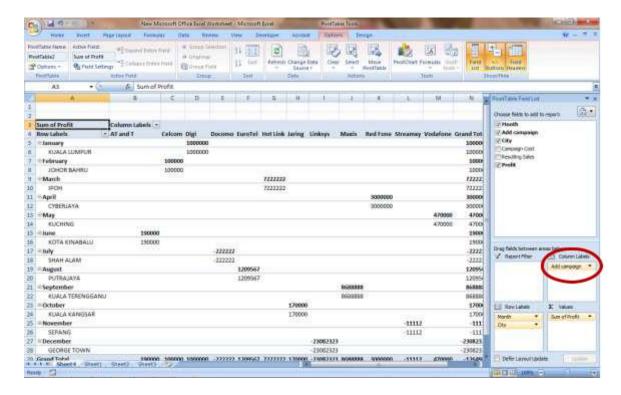
4. After clicking the "OK" button, you should see the figure below.



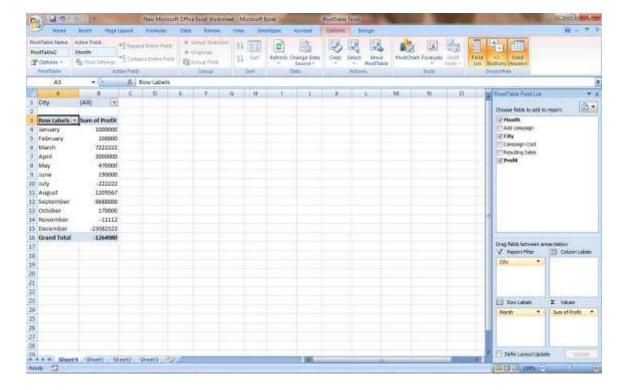
5. Drag "City" followed by "Month" to the "Row Labels" column. Identify the changes to the excel table on the left. See figures below:



6. Drag the "Add Campaign" to the "Column Labels". See the results.



7. Experiment with the different combinations to get the result below:



## **Try this out (self-learning)**

1. How to get the follow result?

(i)

4	А	В		
1				
2	Month	(AII)		
3				
4	Row Labels	Sum of Profit		
5	CYBERJAYA	3000000		
6	GEORGE TOWN	-23082323		
7	IPOH	7222222		
8	JOHOR BAHRU	100000		
9	KOTA KINABALU	190000		
10	KUALA KANGSAR	170000		
11	KUALA LUMPUR	1000000		
12	KUALA TERENGGANU	8688888		
13	KUCHING	470000		
14	PUTRAJAYA	1209567		
15	SEPANG	-11112		
16	SHAH ALAM	-222222		
17	Grand Total	-1264980		
18				

(ii)

