

# EXCEL BOOTCAMP FINAL PROJECT

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# INTRODUCTION

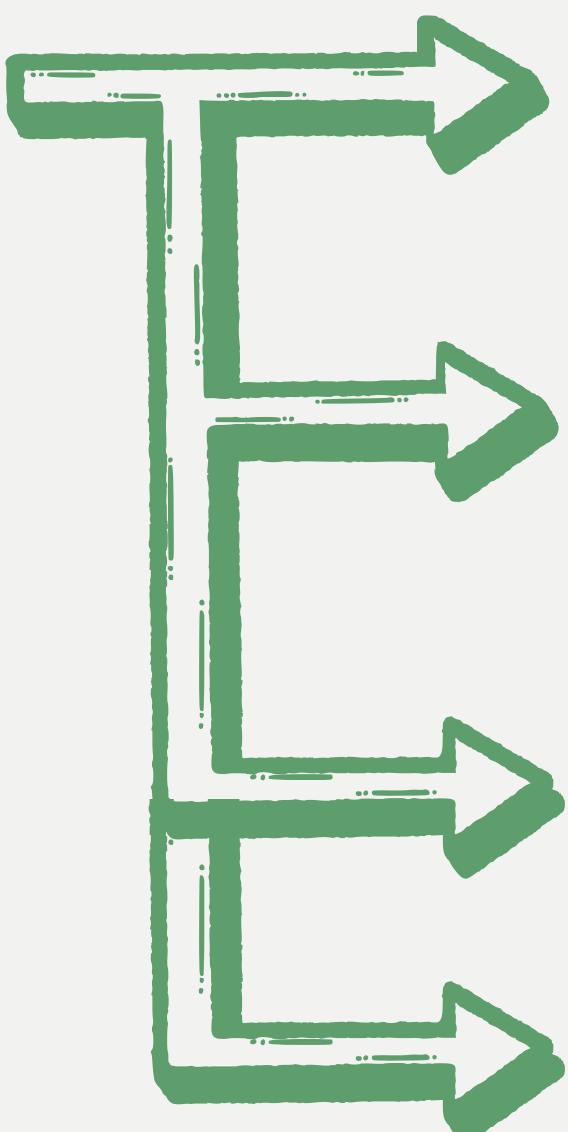


# QUESTION 1

# QUESTION 1



## Mathematical Functions



AVERAGE

AVERAGEIF

MAX

MIN



## QUESTION 2

# QUESTION 2



**Conditional Statements ( if function )**



**Pivot Tables**

# QUESTION 2



## Pivot Table 1

Gender	(All)	Count of job	Column Labels	Row Labels	EMp	Looking	Student	Grand Total
CS		307		CS	307	524	448	1279
Eng		124		Eng	124	80	100	304
Math		144		Math	144	165	123	432
Medical		172		Medical	172	121	96	389
Mgt		490		Mgt	490	729	429	1648
other		698		other	698	1248	319	2265
Science		134		Science	134	273	109	516
<b>Grand Total</b>		<b>2069</b>			<b>2069</b>	<b>3140</b>	<b>1624</b>	<b>6833</b>

# QUESTION 2

## Pivot Tabel 2

		Diploma	High	Ms	PhD	Grand Total
Row Labels	Column Labels	Bs				
CS		788	3	427	54	7
Eng		186		87	29	2
other		1799	16	334	101	15
Science		403	1	76	30	6
Math		292	1	95	37	7
Mgt		1169	1	371	101	6
Medical		261	2	74	41	11
Grand Total		4898	24	1464	393	54
						6833

# QUESTION 2

## Pivot Tabel 3

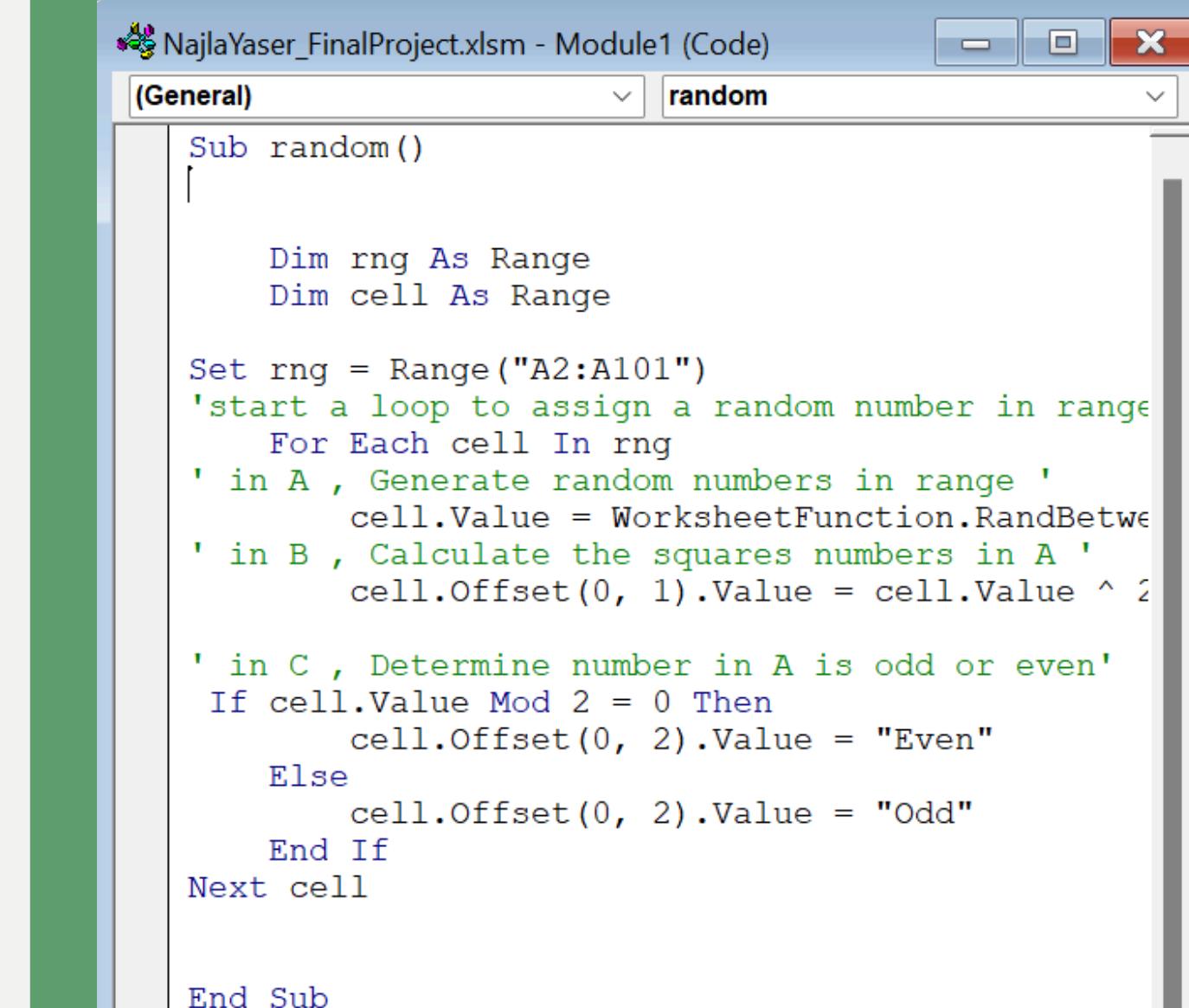
Row Labels	Count of english
0	231
1	912
2	1926
3	2439
4	905
5	420
<b>Grand Total</b>	<b>6833</b>



# QUESTION 3

# QUESTION 3

## VBA & Macros



A screenshot of the Microsoft Excel VBA editor showing a module named 'random'. The code performs the following tasks:

- It defines two ranges: 'rng' (A2:A101) and 'cell' (Range).
- It loops through each cell in the 'rng' range.
- For each cell, it generates a random number between 1 and 100 using `WorksheetFunction.RandBetween`.
- It calculates the square of the value in cell A and places it in cell B (one cell to the right) using `cell.Offset(0, 1).Value = cell.Value ^ 2`.
- It determines if the value in cell A is odd or even using an If-Else statement.
- If the value is even, it places "Even" in cell C (two cells to the right); otherwise, it places "Odd".

```
Sub random()
    Dim rng As Range
    Dim cell As Range

    Set rng = Range("A2:A101")
    'start a loop to assign a random number in range
    For Each cell In rng
        ' in A , Generate random numbers in range '
        cell.Value = WorksheetFunction.RandBetween(1, 100)
        ' in B , Calculate the squares numbers in A '
        cell.Offset(0, 1).Value = cell.Value ^ 2

        ' in C , Determine number in A is odd or even'
        If cell.Value Mod 2 = 0 Then
            cell.Offset(0, 2).Value = "Even"
        Else
            cell.Offset(0, 2).Value = "Odd"
        End If
    Next cell
End Sub
```

# QUESTION 3

## VBA & Macros



A	B	C	D	E	F	G
Random Numbers	square he random	even/odd				
973	946729	Odd				
402	161604	Even				
395	156025	Odd				
463	214369	Odd				
675	455625	Odd				
707	499849	Odd				
683	466489	Odd				
724	524176	Even				
426	181476	Even				
588	345744	Even				
398	158404	Even				
942	887364	Even				
725	525625	Odd				
555	308025	Odd				
949	900601	Odd				
844	712336	Even				
935	874225	Odd				
914	835396	Even				
490	240100	Even				
815	664225	Odd				
739	546121	Odd				
560	313600	Even				
668	446224	Even				
245	60025	Odd				
918	842724	Even				



# QUESTION 4

# QUESTION 4



Pivot Tables



Charts

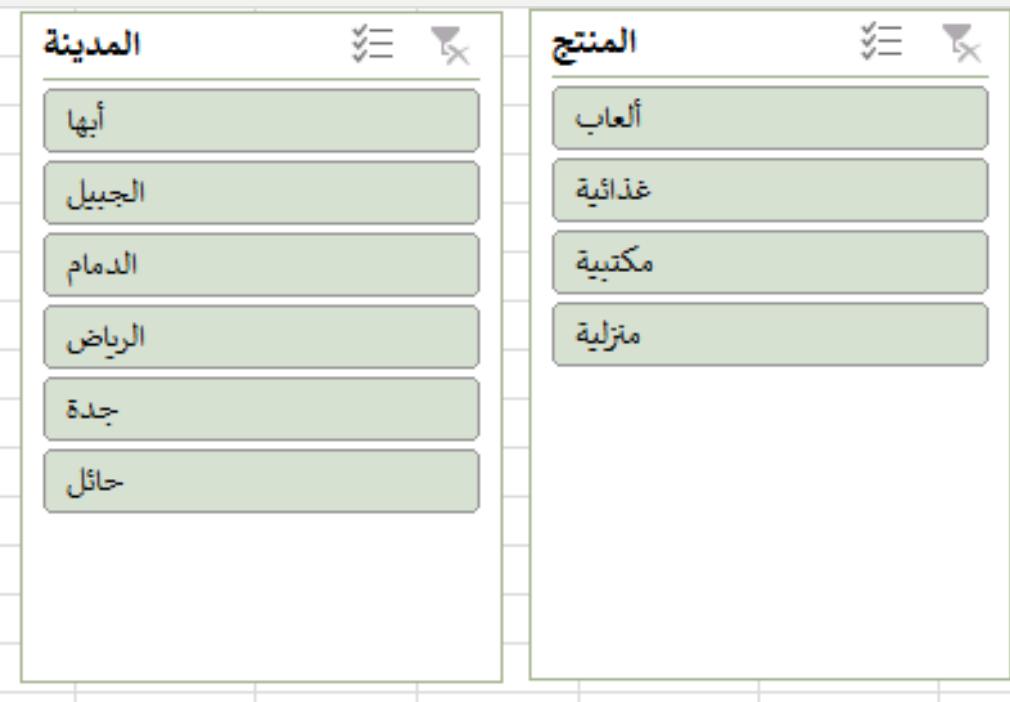
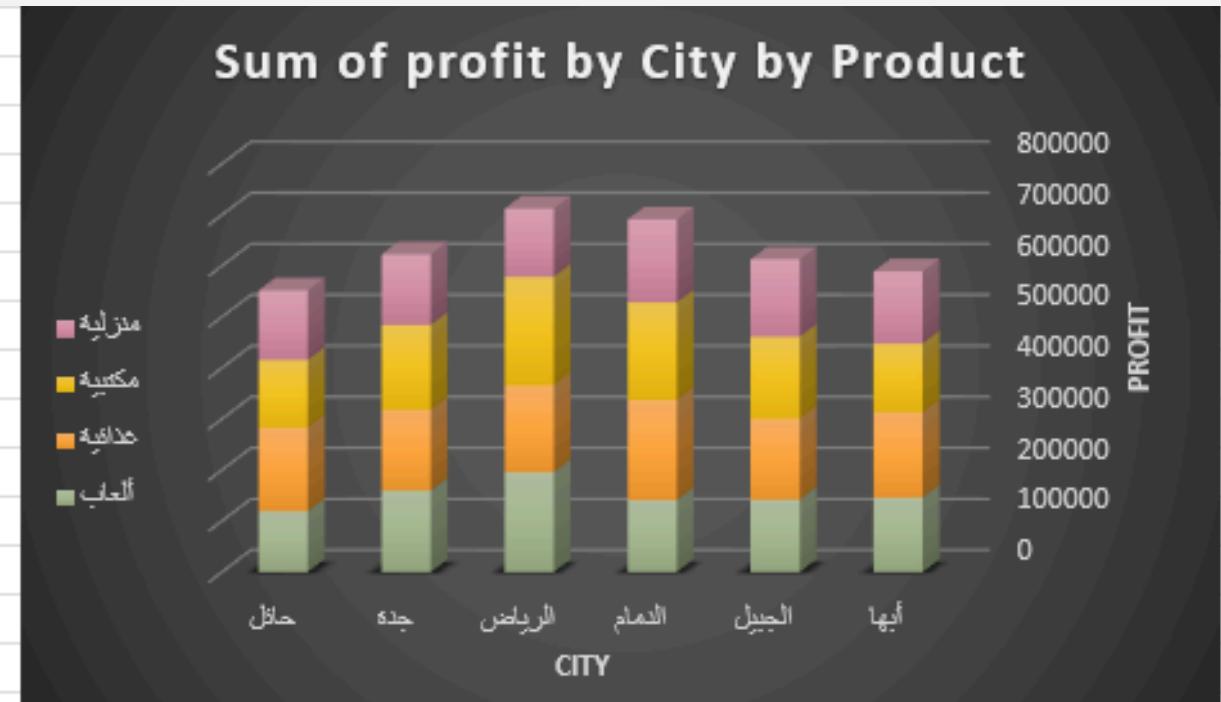


Dashboard

# QUESTION 4

## Pivot Tables Charts

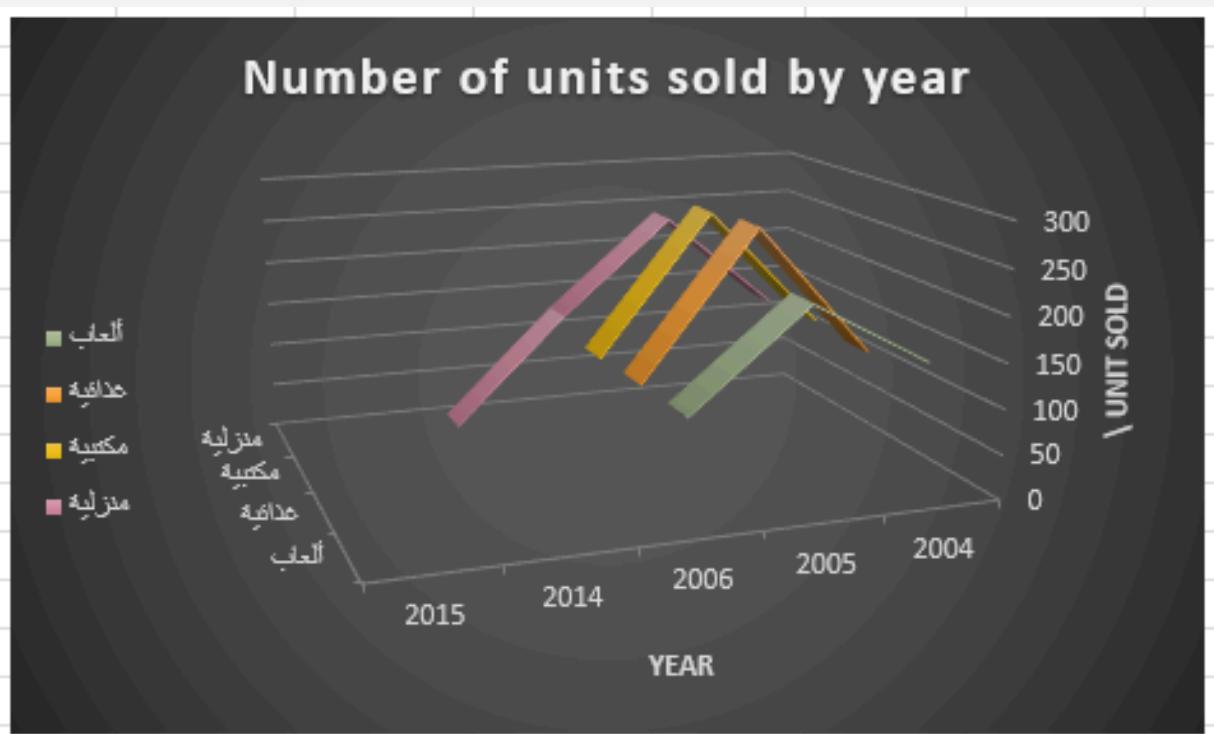
	Column Labels					
Sum of profit						Row Labels
						أألعاب
أبها	146510.8895	166906.0879	134860.7694	141085.8529	589363.5997	غذائية
الجبيل	142370.4922	158717.8488	160467.6387	151541.4248	613097.4044	مكتبة
الدمام	141155.6146	196214.0365	191197.0823	162860.7053	691427.4386	منزلية
الرياض	195802.5058	170383.7045	212754.4084	133492.8159	712433.4346	Grand Total
جدة	159583.5557	158184.6106	166895.5078	138443.664	623107.338	
حائل	119535.6315	163780.0929	132652.0088	136478.7565	552446.4896	
<b>Grand Total</b>	<b>904958.6892</b>	<b>1014186.381</b>	<b>998827.4153</b>	<b>863903.2193</b>	<b>3781875.705</b>	



# QUESTION 4

## Pivot Tables Charts

	المنتج	ألعاب	غذائية	مكتبية	منزلية	Grand Total
Row Labels	Column Labels					
2004		147	125	131	127	530
2005		220	275	269	239	1003
2006		114	112	108	128	462
2014					2	2
2015					1	1
Grand Total		482	512	508	496	1998



Date (Year)

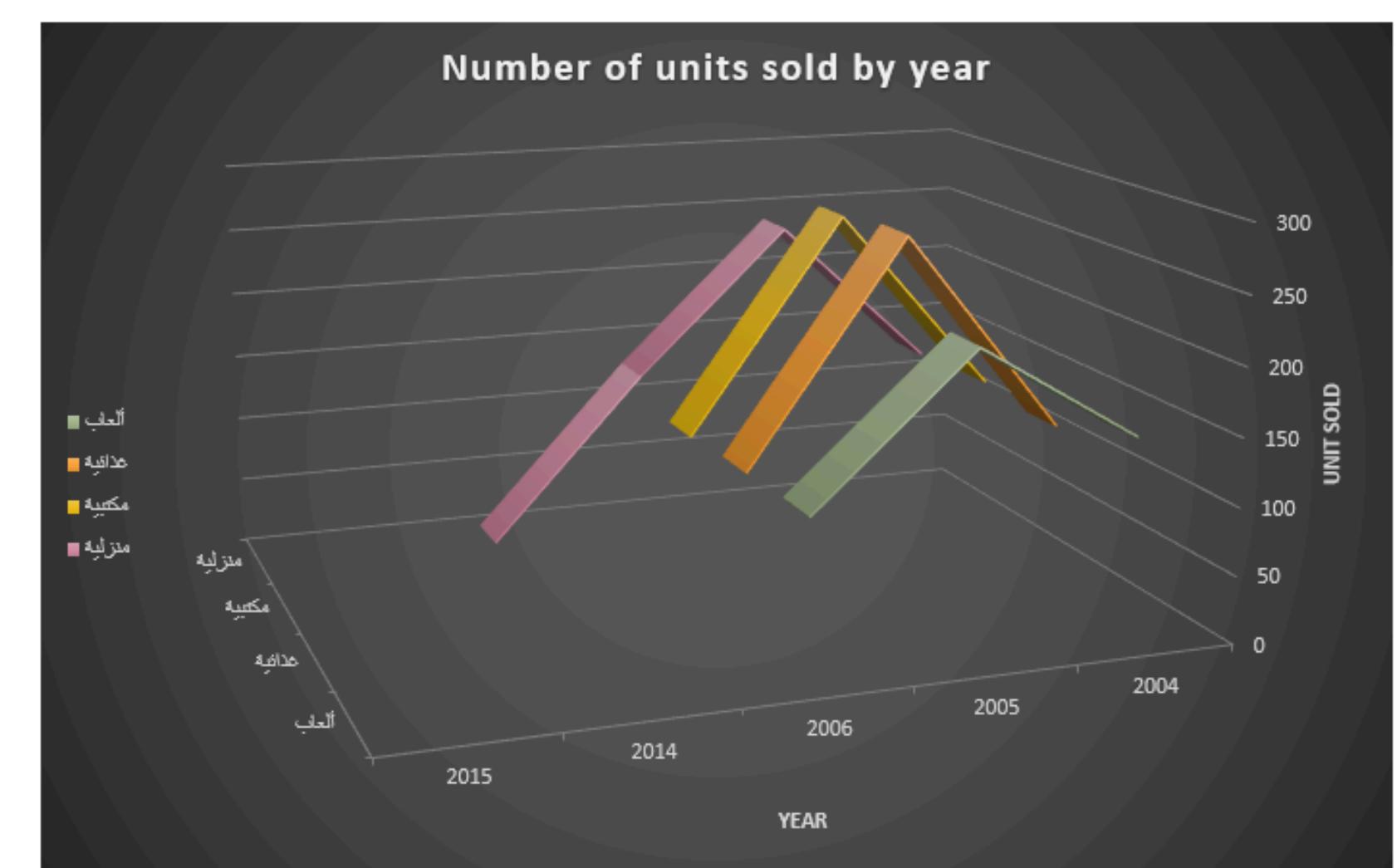
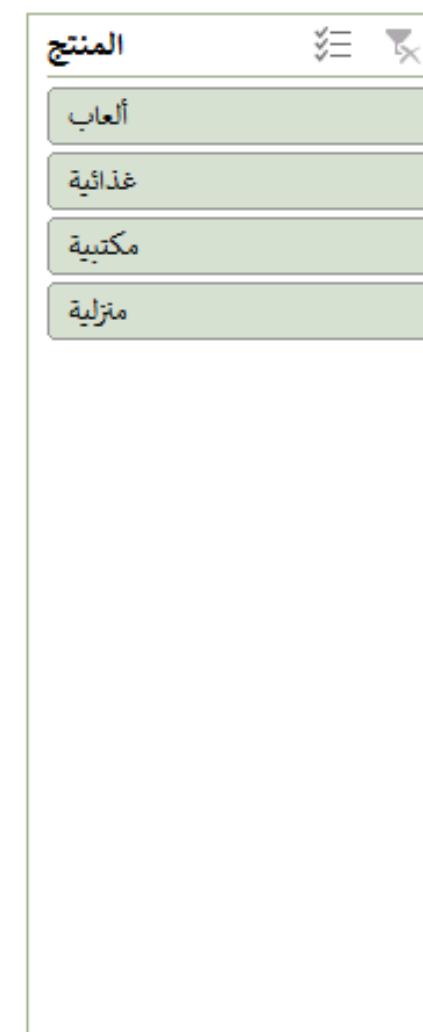
- 2004
- 2005
- 2006
- 2014
- 2015

المنتج

- ألعاب
- غذائية
- مكتبية
- منزلية

# QUESTION 4

## Dashboard





# QUESTION 5

# QUESTION 5



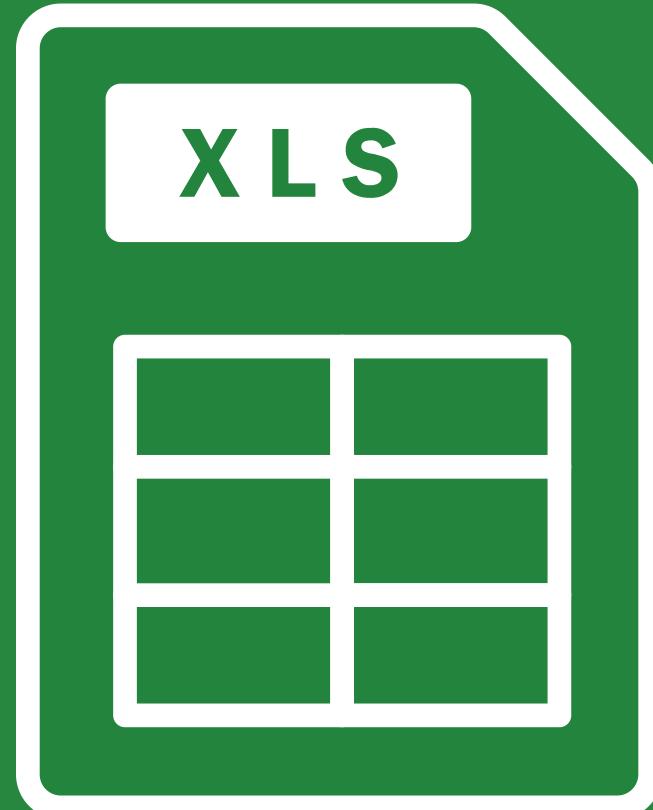
## DATA INTERPRETATION

## REGRESSION MODEL





# CONCLUSION



# THANK YOU

By: Najla Yaser Almarshde