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<b>Subject:</b> Data Visualization and Dashboards (01CT0410)	<b>Name :-</b> Aryan Dilipbhai Langhanoja	
<b>Assignment – 2</b>	<b>Date:</b> 08-01-2024	<b>Enrollment No:-</b> 92200133030

**Aim:** Pivoting using Excel

**IDE:** Microsoft Excel


**Questions:**

- First in Order Sheet of Dataset Insert Name of Customers ,Gender,city,country from Customer Id and from Customer Sheet.
- And In order dataset extract months and year from order date make different columns for that.

**1) What is the most common order quantity?**

- Insert Pivot Table for given Dataset
- Insert Quantity in Row Label and Count of Orders in Values Field.
- **Answer :-** Quantity – 6  
Count of Orders - 24

2			
3	Quantity	Count of Quantity	
4	6	24	
5	29	22	
6	5	22	
7	26	21	
8	30	21	
9	20	20	
10	2	20	
11	21	19	
12	23	19	
13	18	19	
14	12	18	
15	3	18	
16	17	18	
17	13	18	
18	15	18	
19	16	17	
20	19	17	
21	9	16	
22	7	15	
23	24	15	
24	8	15	
25	1	15	
26	27	13	
27	11	13	
28	4	13	
29	14	11	
30	10	11	
31	25	11	
32	22	11	
33	28	10	
34	Grand Total	500	
35			

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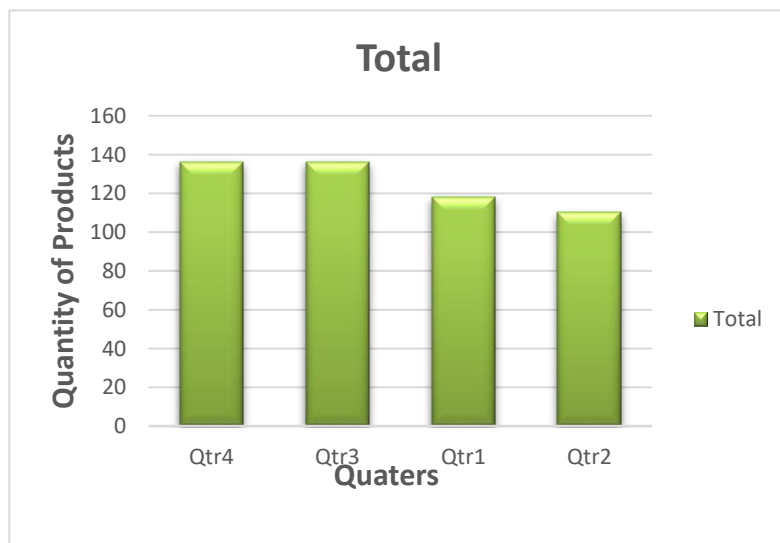



## 2) Are there specific quarter with higher order volumes?

- Insert Pivot Table for given Dataset.
- Insert Quarters in Row Labels and Insert Count of Quantities in Value Field
- **Answer :-** Quarters :- 3 and 4

Count of Quantity :- 136

2		
3	Row Labels	Count of Quantity
4	Qtr4	136
5	Qtr3	136
6	Qtr1	118
7	Qtr2	110
8	Grand Total	500
9		



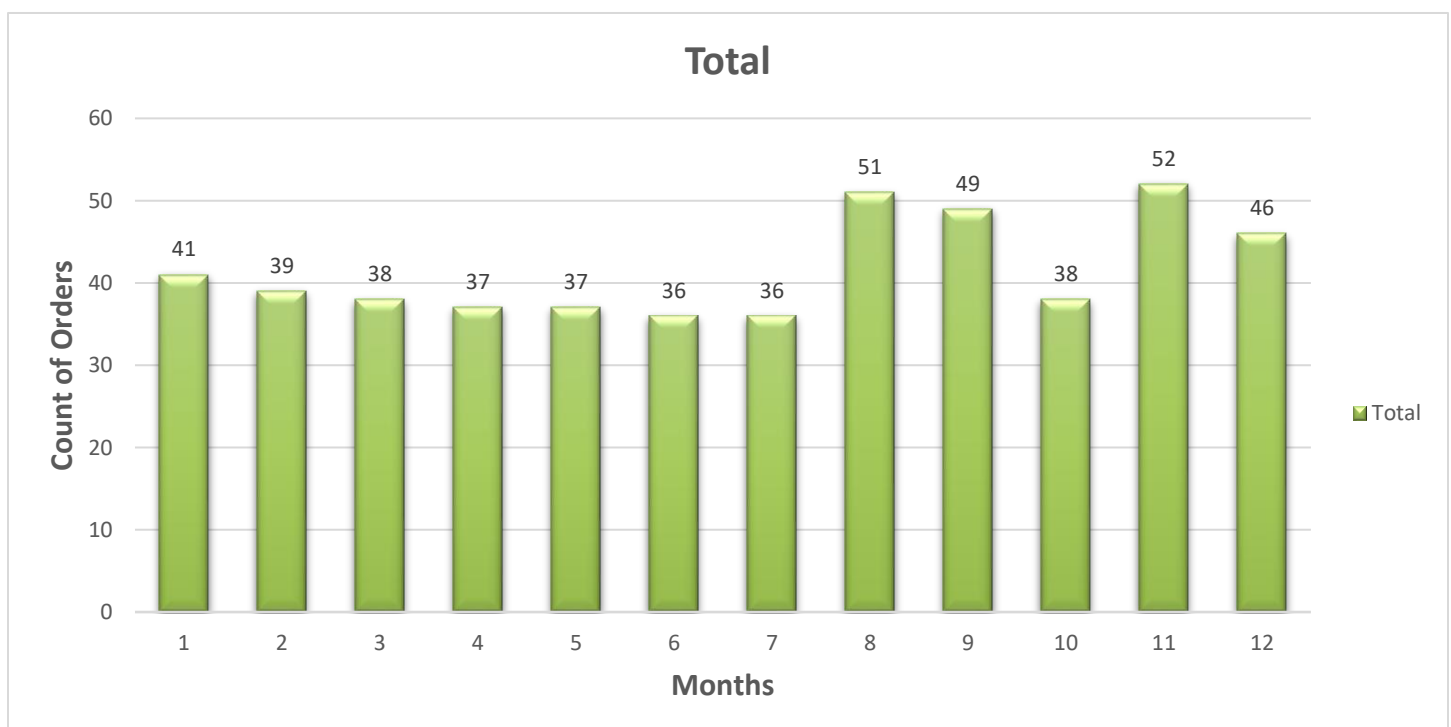
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### 3) How does order frequency vary over the month?

- Insert Pivot Table for given Dataset.
- Insert the Months in Row Labels and Count of Orders in Values.
- **Answer :-** Month – 11 (November)

Count of Orders = 52

2		
3	Row Labels	Count of Order_#
4	1	41
5	2	39
6	3	38
7	4	37
8	5	37
9	6	36
10	7	36
11	8	51
12	9	49
13	10	38
14	11	52
15	12	46
16	Grand Total	500
17		

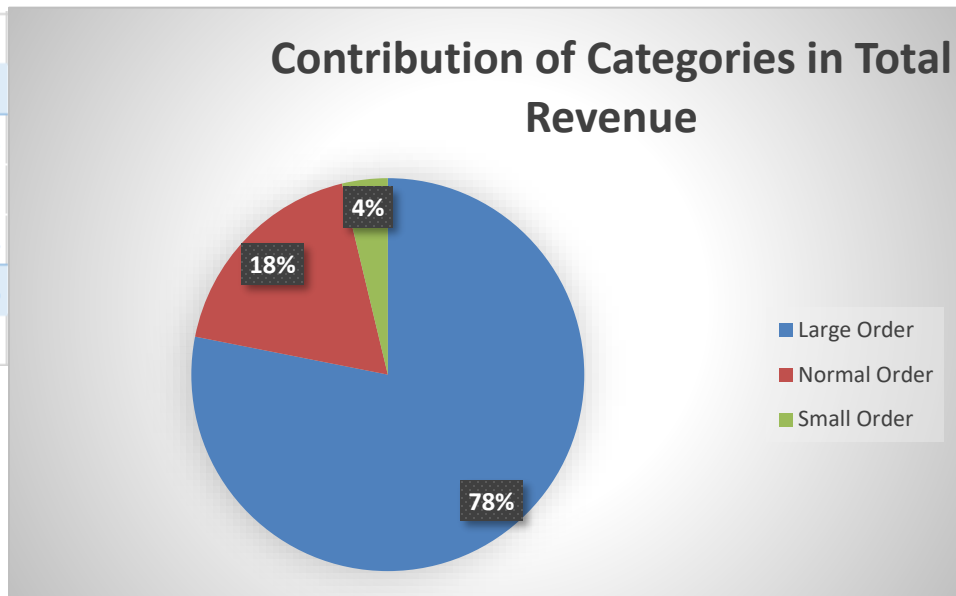


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4) Are there certain categories contributing more to revenue?

- Insert the Pivot Table.
- Insert the Category\_# in Row Labels and Sum of Total Cost in Value Field.
- **Answer :-**

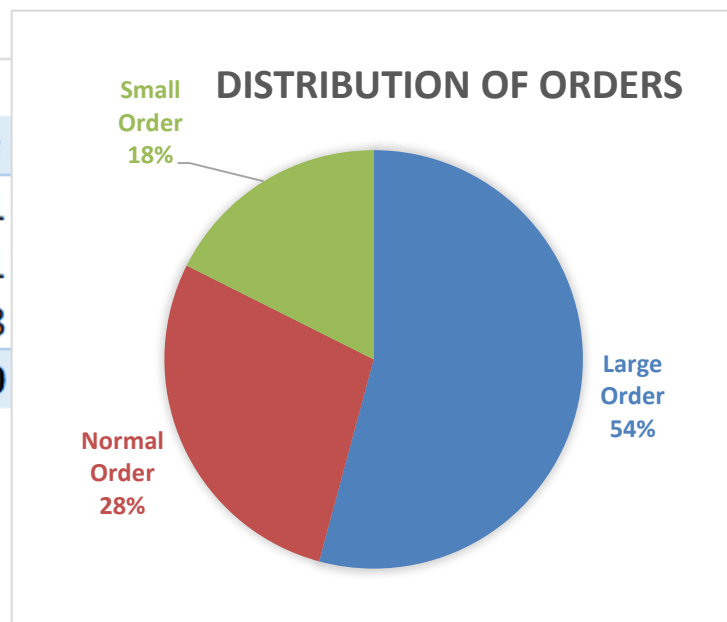
2		
3	<b>Row Labels</b>	<b>Sum of Total_Cost</b>
4	Large Order	55485
5	Normal Order	12895
6	Small Order	2664
7	<b>Grand Total</b>	<b>71044</b>
8		




5) What is the distribution of orders across different order categories?

- Insert the Pivot Table for given Dataset.
- Insert Order\_Category\_# in Row Label and Count of Order in Values

2		
3	<b>Row Labels</b>	<b>Count of Order_#</b>
4	Large Order	271
5	Normal Order	141
6	Small Order	88
7	<b>Grand Total</b>	<b>500</b>
8		



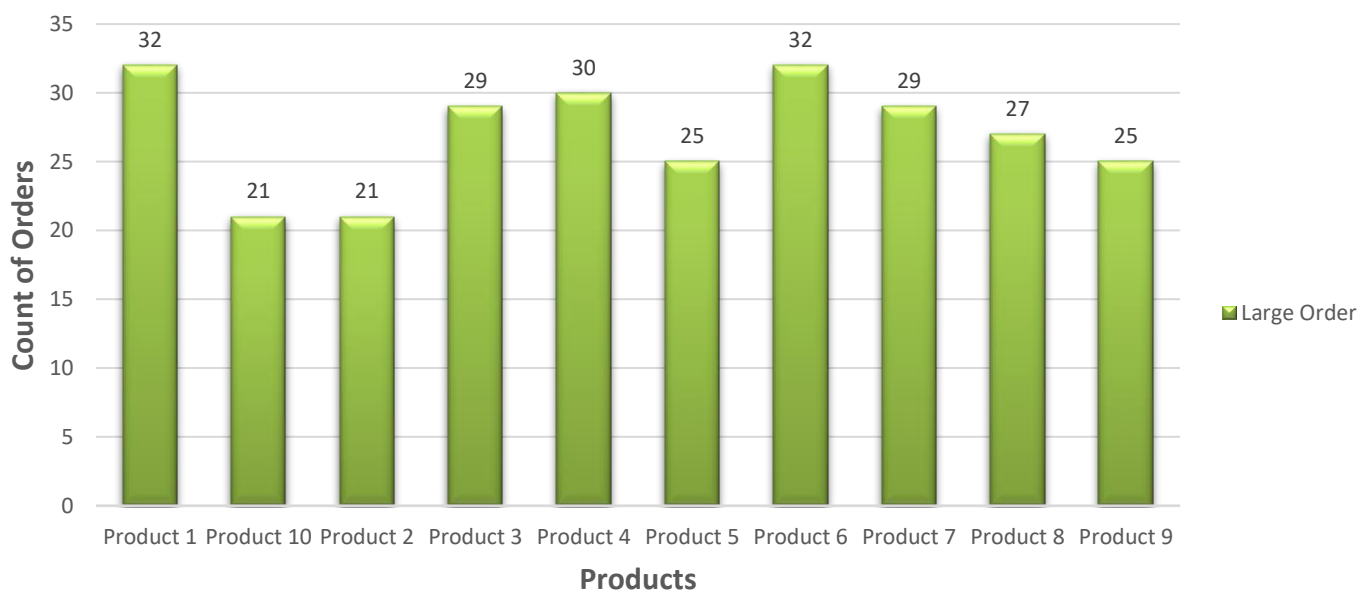
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6) Can you identify the most common product purchased in large orders?

- Insert a Pivot Table for given Dataset.
- Place the Product\_# in the Row Label and Count of Quantity in Values field.

2			
3	<b>Count of Order_#</b>	<b>Column Labels</b>	
4	<b>Row Labels</b>	<b>Large Order</b>	<b>Grand Total</b>
5	Product 1	32	32
6	Product 10	21	21
7	Product 2	21	21
8	Product 3	29	29
9	Product 4	30	30
10	Product 5	25	25
11	Product 6	32	32
12	Product 7	29	29
13	Product 8	27	27
14	Product 9	25	25
15	<b>Grand Total</b>	<b>271</b>	<b>271</b>
16			

**Most Common Products**



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7) What is the average quantity of products per order?


- Insert a Pivot Table for given Dataset.
- And insert a Average Total\_Cost in Values field.

2		
3	<b>Average of Quantity</b>	
4		15.424
5		

8) Which product has the highest unit price?


- Insert A Pivot Table for given dataset.
- Insert Product\_# in Row Label and Max of Unit\_Price in Values.

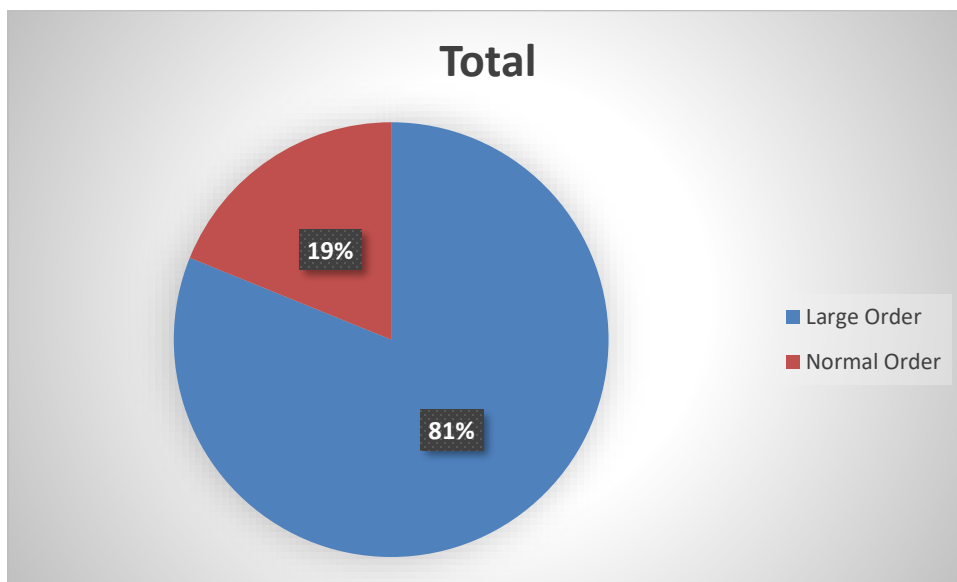
2			
3	<b>Row Labels</b>	<b>Max of Unit_Price</b>	
4	Product 1	18	
5	Product 10	13	
6	Product 2	12	
7	Product 3	12	
8	Product 4	2	
9	Product 5	12	
10	Product 6	4	
11	Product 7	9	
12	Product 8	8	
13	Product 9	2	
14	<b>Grand Total</b>	<b>18</b>	
15			

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**9) What is the total revenue generated from large orders versus normal orders?**


- Insert A Pivot Table for given Dataset.
- Insert a Filtered Order\_Category# as Large and Normal in Row Label and Insert Sum of Total\_Cost in Values.

2			
3	<b>Row Labels</b>		<b>Sum of Total_Cost</b>
4	Large Order		55485
5	Normal Order		12895
6	<b>Grand Total</b>		<b>68380</b>
7			

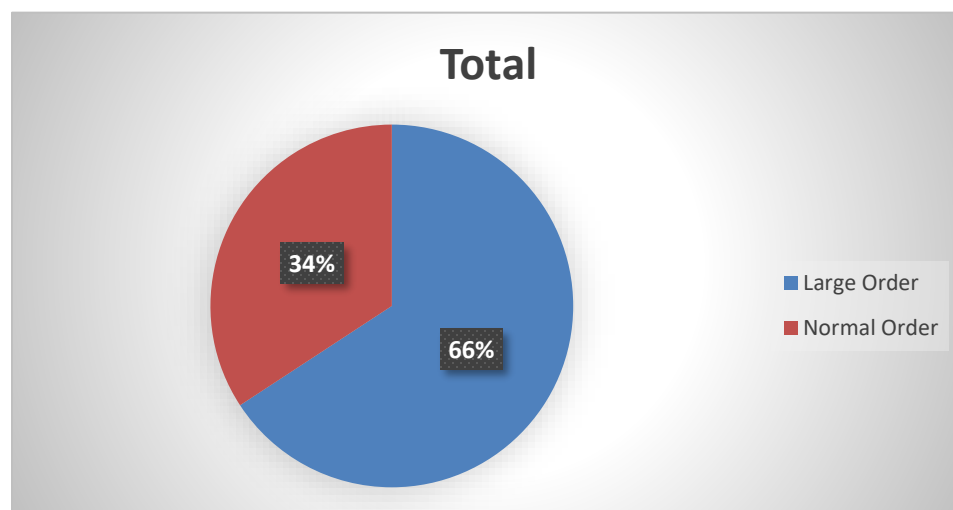


**10) What is the proportion of large orders to normal orders in the dataset?**

- Insert A Pivot Table for given Dataset.
- Insert The Filtered Orers\_Category# as Large and normal and Insert Count of Orders\_# as Values.

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2			
3	Row Labels	Count of Order_#	
4	Large Order	271	
5	Normal Order	141	
6	Grand Total	412	
7			




**11) How many unique customers are represented in the dataset?**

- Insert A Pivot Table for given Dataset.
- Insert a Name as Row Label and find the Count
- **Answer :-** 146

**12) What is the most frequently purchased product across all orders?**

- Insert A Pivot Table for given Dataset.
- Insert a Product\_# as Row Label and Insert Count of Orders\_# as Values.
- **Answer :-** Product – 3 with 60 Orders.



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2			
3	Row Labels	Count of Product_#	
4	Product 3	60	
5	Product 1	57	
6	Product 2	54	
7	Product 9	52	
8	Product 4	51	
9	Product 8	50	
10	Product 7	48	
11	Product 5	46	
12	Product 6	42	
13	Product 10	40	
14	Grand Total	500	
15			


13) What is the average total cost for each order category?

- Insert A Pivot Table for given Dataset.
- Insert a Order\_Category# in Row Label and Average of Total\_Cost in Values.
- Answer :-

2			
3	Row Labels	Average of Total_Cost	
4	Large Order	204.7416974	
5	Normal Order	91.45390071	
6	Small Order	30.27272727	
7	Grand Total	142.088	
8			

14) How does the quantity of products impact the total cost in different order categories?

- Insert A Pivot Table for given Dataset.
- Insert a Quantity in Row Label and Order\_Category in Columns and Sum of Total\_Cost as Values.

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➤ **Answer :-**

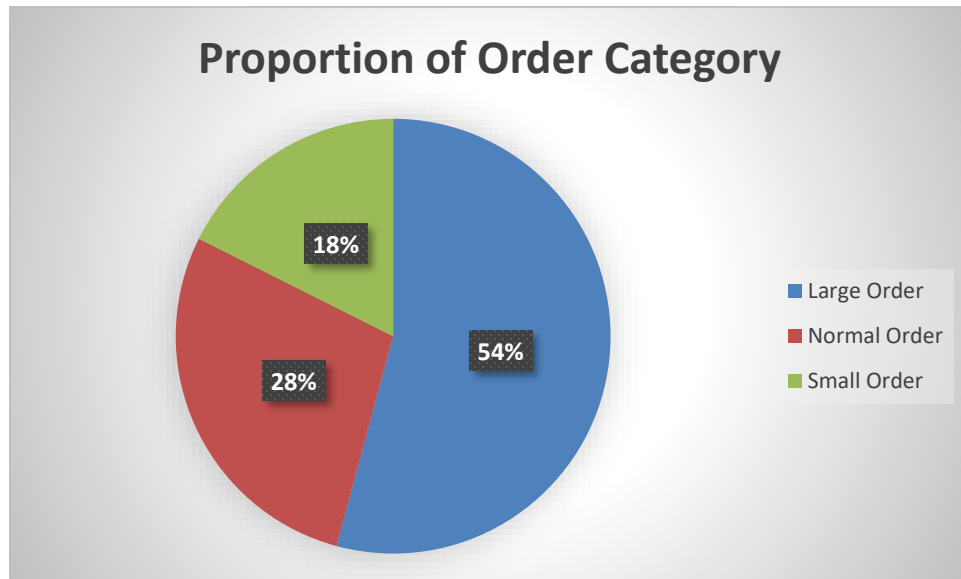


**15) What is the proportion of small, normal, and large orders in the dataset?**

- Insert A Pivot Table for given Dataset.
- Insert a Order\_Category in Row Label and Count of Order\_Category# in Values.
- **Answer :-**

2		
3	Row Labels	Count of Order_Category
4	Large Order	271
5	Normal Order	141
6	Small Order	88
7	Grand Total	500
8		

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### **Output:**

### **Observation and Learnings:**

By Attempting this assignment we came to know the Various Functionalities of Microsoft Excel.