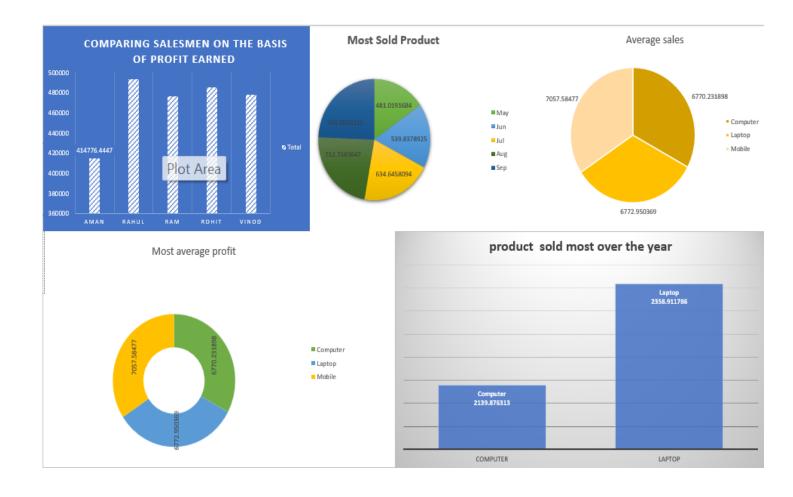
DASHBOARD OF SHOP SALES DATA ANALYSIS



Shop Sales Dataset Report

Introduction:

This dataset encapsulates a wealth of information regarding sales transactions, providing valuable insights into the dynamics of retail operations. With columns meticulously crafted to capture key facets of each transaction, including Date, Salesman, Item Name, Company, Quantity, and Amount, analysts and businesses alike gain access to a treasure trove of actionable data.

Whether it's uncovering trends, optimizing inventory management, or refining sales strategies, this dataset serves as an invaluable resource for driving informed decision-making and unlocking new avenues for growth.

Questionnaire:

- 1. Compare all the salesmen on the basis of profit earn.
- 2. Find out most sold product over the period of May-September.
- 3. Find out which of the two product sold the most over the year Computer or Laptop?
- 4. Which item yield most average profit?
- 5. Find out average sales of all the products and compare them.

Analytics:

1. Compare all the salesmen on the basis of profit earn.



Ans:- The comparison of all the salesmen on the basis of profit earned is given.

2. Find out most sold product over the period of May-September.



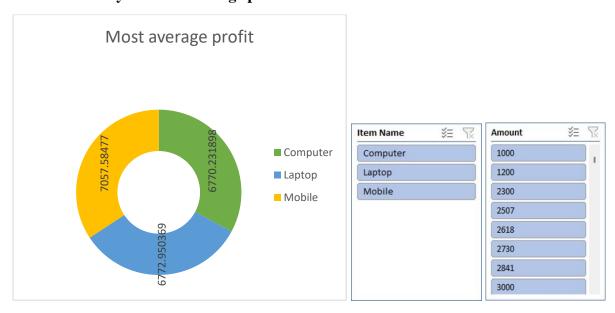
Ans:- To identify the most sold product over the period of May-September, we would need to analyze the sales data within this timeframe. By aggregating the quantity sold for each product across all transactions during this period and then determining which product has the highest total quantity sold, we can pinpoint the most popular item.

3. Find out which of the two product sold the most over the year Computer or Laptop?



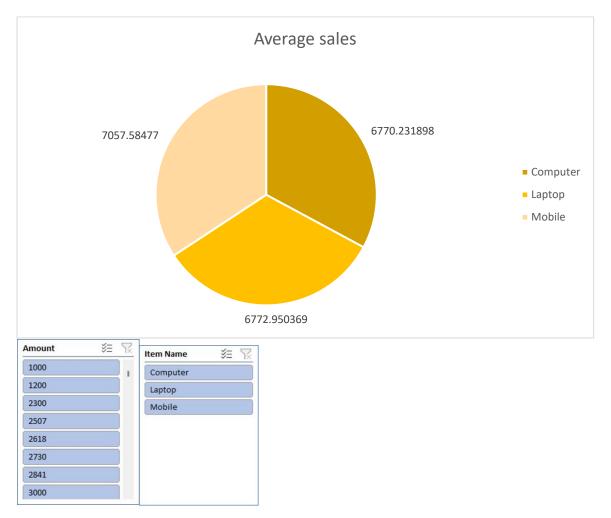
Ans:- The two product sold the most over the year between computer or laptop:

4. Which item yield most average profit?



Ans:- The item that yields the most profit between laptop, computer and mobile is:

5. Find out average sales of all the products and compare them.



Ans:- The average sales of all the products with their respective comparison is given above.

Conclusion and Review:

The shop sales dataset offers insights into sales trends, salesman performance, item popularity, and company performance. Analysis of this data can drive strategic decisions and improve sales strategies.

The dataset is well-structured and provides comprehensive information on sales transactions. It allows for various analyses, but could benefit from additional variables for deeper insights. Overall, it's a valuable resource for understanding sales dynamics and informing business decisions.

Regression:

The regression model, with a significant p-value indicates a strong positive relationship between Amount and the profit earned and the outcome variable. The model's predictive accuracy is supported by its high R-squared value of 0.660.

SUMMARY OUTPUT

Regression Statistics					
Multiple R	0.812617				
R Square	0.660347				
Adjusted R Square	0.629469				
Standard Error	1215.119				

Observations 13

ANOVA

	df	SS	MS	F	Significance F
Regression	1	31576697	31576697	21.38598	0.000753
Residual	11	16241653	14776514		
Total	12	47818350			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	244.7062	754.0557	0.32452	0.751632	-1414.96	1904.372
X Variable	0.190729	0.041243	4.624498	0.000735	0.099954	0.281505

Correlation:

The correlation coefficient between units sold and revenue is 0.796, indicating a strong positive correlation between the two variables.

	Qty	Amount
Column		
1	1	
Column		
2	#DIV/0!	1

Anova (Single Factor):

The ANOVA results indicate a significant difference between the two groups , with 1 degree of freedom.

SUMMARY

SUMMARY						
Groups	Count	Sum	Average	Variance		
Column 1	15	78.56643	5.237762	2.766871	_	
Column 2	15	50419.05	3361.27	3416099		
					_	
ANNOVA						
Source of	SS	df	MS	F	P-Value	F crit
Variance						
Between	84472135	1	84472135	49.45528	1.2E-07	4.195972
Group						
Without	47825420	28	170851			
Group						

Anova two factor with Replication:

1.32E+08

29

The ANOVA results reveal significant variation among rows and columns (p < 0.001), with degrees of freedom (df) values of 10 respectively. The error term has a degree of freedom of 0

A١	10	٧	Δ
----	----	---	---

Total

Source	of					
Variation	SS	df	MS	F	P-value	F crit
Rows	841600745	10	4160074	65535	#NUM!	#NUM!
Columns	0	0	65535	65535	#NUM!	#NUM!
Error	0	0	65535			
Total	41600745	10				

Anova two factor without Replication:

Summary	Count	Sum	Average	Variance	
4	1	7800	7800	#DIV/0!	
5	1	3000	3000	#DIV/0!	
4	1	2300	2300	#DIV/0!	
3	1	7000	7000	#DIV/0!	
3	1	1200	1200	#DIV/0!	
4	1	2506.667	2506.667	#DIV/0!	
5	1	2618.095	2618.095	#DIV/0!	
6	1	2729.524	2729.524	#DIV/0!	
7	1	2840.952	2840.952	#DIV/0!	
6	1	4500	4500	#DIV/0!	
7	1	3063.81	3063.81	#DIV/0!	
1000		39559.05	3596.277	4160074	

Descriptive Statistics:

Column1	
Mean	1000
Standard Error	0
Median	1000
Mode	#N/A
Standard	
Deviation	#DIV/0!
Sample Variance	#DIV/0!
Kurtosis	#DIV/0!
Skewness	#DIV/0!
Range	0
Minimum	1000
Maximum	1000
Sum	1000
Count	1