SAP 10: 60004230001 DATE: NAME: Anika Shah PAGE: STD .: C020 DIV .: C1-1 Experiment No. 1 * AIM: Basic visualizations using Excel and google charts * THEORY * PATA VISUALIZATION: → sata visualization is the graphical representation of information -> Data visualization translates complex data sots into vival formats that are easier for the human brain to understand. This can include a variety of usual tools such as: 1. Charts: Ban charts, line charts, pie charts, etc. 2. Graphs: Scatter plots, histograms, etc. 3. Maps: Geographic maps, heat maps 4. Dashboards: Interactive platforms that combine multiple visualizations. > The primary goal of data visualization is to make data more accerable and easier to interpret allow users to identify potterns, trends and outliers quickly. This is important in big data whose the saige volume of information can be confusing urthaut effective visualization techniques. * MICROSOFT EXCEL FOR DATA VISUALIZATION -> Microsoft Excel is a widely used spreadsheet application that agers robust data isualization capabilities key features lindude: 1. Voriety of Chart Types. Excel provides primerous chart options such as bar charts, line charts, fie charts, scatter plots and more allowing users to select the most appropriate

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	visualization for their data.
	Pivot Tables and Pivol Charts: These tools enable dynamic data
	summarization and exploration, facilitating the creation of
	and dashboards
	according options: Users can inhance virualizations but
	the colony dead title to see in
	clarity and presentation.
	Creating Dashboards in Excel:
1 . 1	a single was the sale was charter and pivoltables into
	that allows for males into
	that allows for real-time data exploration and analysis.
	a come expression and analysis.
*	GOOGLE CHARTS FOR DATA VISUALIZATION
ب	Google chards is a free, web-based tool that enables the
111111	creation of interactive and visually appealing charts, Notable
A	aspects include:
1	integration with google shoots: google charus seamlessly
1.	integrates with google shoots allowing users to usualize
	data stored in spreadsheets efforterry.
2	Interactive Features Charts counted in
	Interactive Features: Charts created with this tool are interacting
	enabling users to engage with data usualizations directly
3.	
	customization and Flexibility: Users can tailor chauts to their
	specific needs, adjusting aestholics and functionality to align
5	with their data presentation tone goals.
)	creating pashboards in google Sheets:
3	By integrating geople charts, users can develop doshboards
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	that are easily shareable and collaborative with the added	
	benefit of real-time updates and interactivity. They can be	
	built use inserting charts and using features like slicers	
V-		
	to filler and analyse data efficiently.	
١.		
X	Dashboards some as centralized pratforms that compile	
	washboards some as contraited production will all kell	
	multiple doutou usinalizations offering a holistic view of key	
	metrics and renjoinance indicators.	
_		
*	IMPORTANCE OF DATA VISUALIZATION.	
1.	Simplifies complex sata: Raye satasets become easy to	
	understand through usual representation.	
2.	Enhances Interpretation: Trends, patterns and correlations are	
	easier to identify.	
3.	saves Time: Visuals pravide quick insights compared to naur	
	data analysis.	
4.	Improves Communication: Data becomes accessible and clear for	
	all audiences.	
5 .	acta storegretting: Influences perceptions and derive actions bereat	
	on the presented data.	
*	CONCLUSION:	
	in this experiment, we utilized Excel and google charits	
	to create various data usualizations, each addressing specific	
	business questions. These usual tools transformed complex	
	data sets into clean, actionable singents insights, highlighting	
	patterns and trends that inform etrablic decision -making	N/
	By imploying during visualization techniques, we demanstra	
	hour ellectricia exercted douter can enhance understanding	
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