

Sanjivani University
School of Engineering & Technology
Department of AIML

Subject: Version Control System Tools (PR) CIA-II Model Based Practical Exam

SET-B

To create the visuals in Power BI based on the source file

Insert the LOGO, Name of Students on Report along with Date

Visuals	Questions	Tips
Map – Total Sales and Gross Margin by Country Visual Title: <i>Total Sales and Gross Margin by Country</i>	<ul style="list-style-type: none"> What is the total sales by country? What is the gross margin by country? Can we visualize these values on a world map using size and color? 	Use a Map visual or Filled Map, with bubble size for sales and color gradient for gross margin.
Area Chart – Total Sales, Gross Margin and Margin % by Date Visual Title: Total Sales, Gross Margin and Margin % by Date	<ul style="list-style-type: none"> How do total sales, gross margin, and margin % vary over time? Can we visualize trends of sales and margin in a single visual by date? 	Use an Area chart with Date on the X-axis and all three metrics (Sales, Gross Margin, Margin %) layered.
Donut Chart – Gross Margin by Product Visual Title: <i>Gross Margin by Product</i>	<ul style="list-style-type: none"> What is the gross margin by product? What percentage does each product contribute to the overall margin? 	Use a Donut chart with Product as legend and Gross Margin as values.
Combo Chart – Total Sales and Margin % by Country Visual Title: <i>Total Sales and Margin % by Country</i>	<ul style="list-style-type: none"> What is the total sales and margin % for each country? Can we compare two different metrics together by country? 	Use a Combo chart (Column + Line), where columns represent Total Sales and line represents Margin %.
Bar Chart – Total Sales by Segment Visual Title: <i>Total Sales by Segment</i>	<ul style="list-style-type: none"> What are the total sales across different business segments? Which segment has the highest sales? 	Use a Clustered bar chart with Segment on Y-axis and Total Sales as value.
6. Pie Chart – Gross Margin by Year Visual Title: <i>Gross Margin by Year</i>	<ul style="list-style-type: none"> What is the distribution of gross margin across years? How much margin did we have in 2013 vs 2014? 	Use a Pie chart with Year as legend and Gross Margin as value.
Slicers – Year and Segment Filter Controls:	<ul style="list-style-type: none"> Can we filter the dashboard by specific Year(s)? Can we filter by Segment(s) such as Government, Enterprise, Small Business, etc.? 	Use Slicers for both Year and Segment fields.

How do you calculate Margin % using DAX?: $\text{Margin \%} = \text{DIVIDE}([\text{Gross Margin}], [\text{Total Sales}], 0)$

How to show Top N products by Gross Margin?: Use filters or visual-level filters with "Top N" logic in Power BI.