

Sanjivani University
School of Engineering & Technology
Department of AIML

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

SET-A

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

Visuals	Questions	Tips
1. Line Chart – Total Sales, Average Sales, and Total Profit by Date Visual Title: Total Sales, Average Sales and Total Profit by Date	<ul style="list-style-type: none"> What is the total sales by date? What is the average sales amount over time? What is the total profit trend over time? Can we plot total sales and average sales in one line chart with date on the X-axis? 	Use a line and clustered column chart or a dual-axis line chart for clarity.
2. Donut Chart – Sales by Region Visual Title: <i>Sales by Region</i>	<ul style="list-style-type: none"> What are the total sales for each region? Can we show the percentage share of sales by region? 	Use a donut or pie chart with region as the legend and sum of sales as values.
3. Donut Chart – Profit by Region Visual Title: <i>Profit by Region</i>	<ul style="list-style-type: none"> What is the total profit for each region? What is the profit distribution across regions? 	Similar to the previous one, but use "Profit" instead of "Sales".
4. Bar Chart – Sales and Profit by Sales Rep Visual Title: <i>Sales and Profit by Sales Rep</i>	<ul style="list-style-type: none"> What are the total sales and total profit for each sales representative? Which sales reps generated the most sales and profits? 	Use a clustered bar chart with sales reps on the Y-axis and stacked or side-by-side values of Sales and Profit.
5. Bar Chart – Sales and Profit by Customer Visual Title: <i>Sales and Profit by Customer</i>	<ul style="list-style-type: none"> What are the total sales and total profit from each customer? Who are the top customers in terms of revenue and profit? 	Use a clustered bar chart sorted by sales or profit.
6. Slicer – Date Range Visual Title: <i>Date Range Filter</i>	<ul style="list-style-type: none"> Can we filter the data by a custom date range? How do sales and profit change when adjusting the time period? 	Use a date slicer with a range slider.
7. Dropdown Filter – Region Visual Title: <i>Region Filter</i>	<ul style="list-style-type: none"> Can we filter the entire dashboard by region? How do different regions compare across other visuals? 	Use a slicer with "Region" as the field for cross-filtering.

- Use Power Query to merge/append the tables before building visuals.
- Ensure proper data types are set (Date, Currency, Text).
- Create measures in DAX if needed, e.g.:

Total Sales = SUM('Sales'[SalesAmount])

Average Sales = AVERAGE('Sales'[SalesAmount])

Total Profit = SUM('Sales'[Profit])