

## Lesson 6 - Creating Basic Visualizations & Adding Interactivity to Visuals

1. Name three types of visuals you can create in Power BI.

Bar chart, line chart, and pie chart.

2. How do you add a slicer to a report?

Go to the Visualizations pane and select the slicer icon, then choose a field to use.

3. What is the difference between a bar chart and a column chart?

A bar chart is horizontal, while a column chart is vertical.

4. How do you change the color of a visual background?

Select the visual, go to the 'Format' pane, and change the background color under 'General' settings.

5. What does 'drill-down' mean in a visual?

It allows you to click into data to see more detailed levels, like Region > Product.

6. Create a bar chart showing SalesAmount by Region.

Select 'Bar chart' and use Region as axis and SalesAmount as value.

7. Add a slicer for Quarter to filter all visuals on the page.

Insert a slicer and select the 'Quarter' field. Ensure it's synced across visuals.

8. Format the bar chart to show data labels.

Turn on 'Data Labels' in the 'Format' pane of the bar chart.

9. Use a line chart to show SalesAmount trends over Quarter.

Use a line chart visual with Quarter on the axis and SalesAmount as value.

10. Add a tooltip to display Product details when hovering over bars.

Add Product to the Tooltip field of the bar chart.

11. Sync slicers across multiple report pages.

Use the 'View' tab > 'Sync slicers' to apply the slicer across pages.

12. Create a custom visual with dynamic measure selection (e.g., Sales vs. Profit).

Use a disconnected table with a measure switch DAX formula.

13. Implement a hierarchy for Region > Product > Quarter drill-down.

Create a hierarchy in the data model and use it in visuals.

14. Use bookmarks to toggle between two visuals in the same space.

Create bookmarks and use buttons to toggle visibility of visuals.

15. Optimize a slow-rendering report with 10+ visuals.

Reduce number of visuals, remove unused fields, and disable interactions where unnecessary.