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

- **Bar Chart** → compares values across categories.
- Line Chart → shows trends over time.
- Pie Chart → displays proportions of a whole.
 (Other examples: Map, Table, Matrix, Card, etc.)

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

- 1. Go to the **Visualizations pane**.
- 2. Click the **Slicer** icon (looks like a filter).
- 3. Drag a field (e.g., *Quarter*) into the slicer's **Values**.
- 4. Resize/format it as needed.

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

- **Bar Chart** → Horizontal bars (categories on vertical axis).
- **Column Chart** → Vertical bars (categories on horizontal axis).

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

- Select the visual.
- 2. In Visualizations pane → Format (paint roller icon).
- 3. Expand Background.
- 4. Toggle **On**, then pick a **color**.

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Drill-down lets you go from a high-level view to detailed levels in hierarchy data.
 Example: Region → Product → Quarter.

6. Create a bar chart showing SalesAmount by Region.

- 1. Insert a Bar Chart.
- 2. Drag **Region** \rightarrow Axis.
- 3. Drag **SalesAmount** \rightarrow Values.

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

- 1. Add a Slicer visual.
- 2. Drag **Quarter** field \rightarrow Values.
- 3. Now selecting a Quarter filters all visuals on that report page.

8. Format the bar chart to show data labels.

- 1. Select the **Bar Chart**.
- 2. Go to Format \rightarrow Data labels.
- 3. Toggle **On**.
- 4. Adjust font size, color if needed.

9	Use a line	chart to	show	SalesAmoun	t trends o	ver Quarter
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- 1. Insert a Line Chart.
- 2. Drag **Quarter** \rightarrow Axis.
- 3. Drag **SalesAmount** → Values.

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

- 1. Go to **Fields** → **Tooltip** section.
- 2. Drag **Product** field into it.
- 3. Hovering over a bar will now show Product details.

11. Sync slicers across multiple report pages.

- 1. Select a Slicer.
- 2. Go to View \rightarrow Sync slicers pane.
- 3. Tick the report pages where you want it synced.

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

- 1. Create a **table with measures** (*Sales, Profit*).
- 2. Use a What-if parameter or disconnected table for measure choice.
- 3. Create a **DAX measure** that switches values using SWITCH().
- 4. Add to a visual → now the user can toggle between Sales and Profit.

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

- 1. In the Fields **pane**, right-click Region → Create hierarchy.
- 2. Add Product and Quarter under it.
- 3. Drag hierarchy into your visual's axis.
- 4. Use **Drill buttons** on top of the visual to move deeper.

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

- 1. Place two visuals in the same position.
- 2. Use View → Bookmarks pane.
- 3. Create **Bookmark 1** (show first visual, hide second).
- 4. Create **Bookmark 2** (show second visual, hide first).
- 5. Add **Buttons** and assign bookmarks → user can toggle between visuals.

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

- Remove unnecessary visuals or split across pages.
- Use **Aggregated tables** instead of detailed data.
- Enable Data reduction (sampling, summarization).
- Use Import mode instead of DirectQuery when possible.
- Limit heavy DAX calculations.
- Hide unused columns and tables in the model.