

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

- **Bar/Column chart** → Compare values across categories.
- **Line chart** → Show trends over time.
- **Pie/Donut chart** → Show proportions of a whole.

(Also: table, card, scatter plot, map, etc.)

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

1. Go to **Visualizations** pane.
 2. Select **Slicer** (filter icon).
 3. Drag a field (e.g., `Quarter`) to the slicer field.
Now users can filter all visuals using that slicer.
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3. What is the difference between a bar chart and a column chart?

- **Bar chart** → Horizontal bars. Best for long category names.
 - **Column chart** → Vertical bars. Best for time series or short labels.
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4. How do you change the color of a visual background?

1. Select the visual.
 2. Go to **Format** pane → *Visual > Background*.
 3. Pick a color or custom hex code.
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5. What does "drill-down" mean in a visual?

Drill-down lets you **go deeper into hierarchy data**.

Example: Region → Country → City.

- Click the **drill-down arrow** to see details step by step.
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6. Create a bar chart showing SalesAmount by Region.

1. Insert **Bar chart**.
 2. Drag `Region` → Axis.
 3. Drag `SalesAmount` → Values.
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7. Add a slicer for Quarter to filter all visuals on the page.

1. Insert **Slicer**.
 2. Drag `Quarter` → Field.
 3. Make sure **sync slicer** is ON (if multiple pages).
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8. Format the bar chart to show data labels.

1. Select bar chart.
 2. Go to **Format pane** → *Data labels*.
 3. Toggle ON.
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9. Use a line chart to show SalesAmount trends over Quarter.

1. Insert **Line chart**.
 2. Drag `Quarter` → X-axis.
 3. Drag `SalesAmount` → Values.
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10. Add a tooltip to display Product details when hovering over bars.

1. Create a **new page** → Turn it into a tooltip page.
 2. Add `Product` and other details.
 3. In bar chart → **Tooltip settings** → Choose your tooltip page.
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11. Sync slicers across multiple report pages.

1. Select slicer → **View > Sync slicers pane**.
 2. Choose which pages the slicer applies to.
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12. Create a custom visual with dynamic measure selection (e.g., Sales vs. Profit).

- Use a **parameter table** with measures.
- Example DAX:

```
SelectedMeasure =  
SWITCH(  
    SELECTEDVALUE(MeasureTable[MeasureName]),  
    "Sales", SUM(Sales[SalesAmount]),  
    "Profit", SUM(Sales[Profit])  
)
```

- Use this in the visual → now users toggle between Sales/Profit.

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

1. In **Fields pane**, drag `Product` under `Region`, and `Quarter` under `Product`.
2. Use hierarchy in chart.
3. Enable **drill-down** button on visual.

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

1. Place two visuals in same spot.
2. Create **Bookmark A** (first visual visible).
3. Create **Bookmark B** (second visual visible).
4. Add **buttons** to switch bookmarks.

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

- Use **aggregations** (summarized tables instead of raw data).
- Limit visuals per page (try ≤ 8).
- Disable auto date hierarchy if not needed.
- Optimize DAX (use `SUMX` carefully, avoid too many `CALCULATE`).
- Use **import mode** instead of DirectQuery if possible.