

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

- **Bar chart**
 - **Line chart**
 - **Map**
- (others include pie charts, tables, KPIs, matrix, and custom visuals)
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2. How do you add a slicer to a report?

- Click "**Slicer**" from the Visualizations pane
 - Drag a field (e.g., `Quarter`) to the **Field well**
 - Resize and position the slicer on the report page
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3. What is the difference between a bar chart and a column chart?

Chart Type	Orientation
Bar Chart	Horizontal bars
Column Chart	Vertical bars

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

- Select the visual → Go to **Format pane** (paint roller icon)
 - Expand "**General** → **Effects** → **Background**"
 - Set a color and adjust transparency
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5. What does "drill-down" mean in a visual?

It allows users to **click on a data point** (e.g., region) and see **deeper details** (e.g., products in that region). Uses **hierarchies** for multi-level data exploration.

6. Create a bar chart showing SalesAmount by Region:

- Select **Bar Chart** visual
 - Drag `Region` to **Axis**
 - Drag `SalesAmount` to **Values**
-

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

- Add a **Slicer** visual

- Drag `Quarter` field to the slicer
 - All visuals will auto-filter (if fields are related)
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8. Format the bar chart to show data labels:

- Select the bar chart → **Format pane** → **Data Labels** → **On**
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9. Use a line chart to show `SalesAmount` trends over `Quarter`:

- Select **Line Chart**
 - Drag `Quarter` to **Axis**
 - Drag `SalesAmount` to **Values**
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10. Add a tooltip to display `Product` details when hovering over bars:

- Drag `ProductName` to the **Tooltip** field well of the visual
 - When hovering, product info appears dynamically
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11. Sync slicers across multiple report pages:

- Select slicer → Go to **View tab** → **Sync Slicers**
 - Choose which pages to sync and whether it should be visible or hidden
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12. Create a custom visual with dynamic measure selection (Sales vs. Profit):

1. Create a **What-If Parameter** or disconnected table:
`{"Sales", "Profit"}`
2. Use a **DAX measure**:

```
SelectedMeasure =  
SWITCH(  
    SELECTEDVALUE (MeasureTable[Measure]),  
    "Sales", [TotalSales],  
    "Profit", [TotalProfit]  
)
```

3. Use `SelectedMeasure` in the visual's **Values** field
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13. Implement a hierarchy for `Region` > `Product` > `Quarter` (drill-down):

- In Fields pane, drag `Product` under `Region`, then `Quarter` under `Product`
 - Use the \updownarrow **drill icons** on the visual to navigate the hierarchy
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14. Use bookmarks to toggle between two visuals in the same space:

1. Place both visuals in the same location
 2. Use **Selection Pane** to hide one
 3. Create **Bookmark A (showing Visual 1)** and **Bookmark B (showing Visual 2)**
 4. Add buttons and link them to respective bookmarks
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15. Optimize a slow-rendering report with 10+ visuals:

- **Reduce number of visuals** per page
- **Avoid high-cardinality visuals** (e.g., too many rows in tables)
- Use **aggregated data**
- Turn off **auto page refresh** if not needed
- Enable **performance analyzer** (View → Performance Analyzer)