

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

- ☐ Bar Chart
- ☐ Line Chart
- ☐ Pie Chart

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

Go to the **Visualizations** pane > click on the **Slicer** icon > drag the field you want to filter by (e.g., Quarter) into the slicer.

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

- ☐ **Bar chart:** horizontal bars (used when category names are long).
- ☐ **Column chart:** vertical bars (commonly used for time-based data).

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

Select the visual > go to the **Format** pane > expand the **General** section > select **Effects** > choose a **Background color**.

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

It allows users to **navigate to more detailed levels** of data. For example, from Region > Product > Quarter. You can enable it using the **drill-down arrows** or **right-click > drill**.

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.

- ☐ Click the **Slicer** visual

- ☐ Drag Quarter into the **Field well**
 - ☐ Ensure slicer interaction affects all visuals (via **Format > Edit Interactions**)
8. Format the bar chart to show data labels.
- ☐ Select the **Bar Chart**
 - ☐ In the **Format** pane > turn on **Data labels**
9. Use a line chart to show SalesAmount trends over Quarter.
- ☐ Select **Line Chart**
 - ☐ Drag Quarter to **Axis**
 - ☐ Drag SalesAmount to **Values**
10. Add a tooltip to display Product details when hovering over bars.
- ☐ Create a **Tooltip page**:
File > Options > Report Settings > Enable Tooltip
Add a visual with Product, SalesAmount, etc.
 - ☐ On the main chart:
Format > Tooltip > select **Report page** > choose the tooltip page you created
11. Sync slicers across multiple report pages.
- ☐ Select the slicer
 - ☐ Go to **View > Sync Slicers pane**
 - ☐ Choose which pages to **sync** and **show/hide** the slicer
12. Create a custom visual with dynamic measure selection (e.g., Sales vs. Profit).

- Create a table like:

dax

```
Measure Selector = DATATABLE("Measure", STRING, {{"Sales"}, {"Profit"}})
```

- Use a slicer on Measure Selector[Measure]

- Create a measure with SWITCH:

```
Selected Measure =  
SWITCH(  
    SELECTEDVALUE('Measure Selector'[Measure]),  
    "Sales", SUM(Sales[SalesAmount]),  
    "Profit", SUM(Sales[Profit])  
)
```

- Use Selected Measure in your visuals



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

- ☐ In the Fields pane, drag Product under Region, and Quarter under Product to form a hierarchy
- ☐ Use this hierarchy in a visual
- ☐ Enable **drill-down** by clicking the **drill icon** or using **right-click**

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

- ☐ Create **two visuals** in the same area
- ☐ Create two **Bookmarks**: one for each visual's visibility
- ☐ Add **Buttons** with actions > Bookmark
- ☐ Use buttons to toggle between views

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

Optimize a slow-rendering report with 10+ visuals:

- **Reduce visuals per page**
- Use **Aggregated Tables or Pre-aggregated views**
- **Disable Auto Date/Time**
- Use **Performance Analyzer** to find slow visuals
- Limit use of **complex DAX or too many slicers**
- Turn off **interactions** that aren't needed