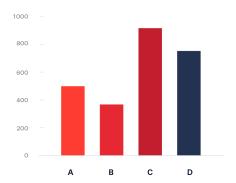
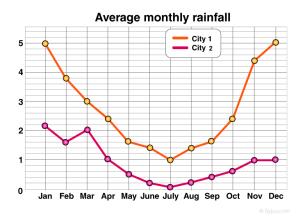
1. Name three types of visuals you can create in Power BI.

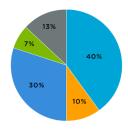
Bar Chart



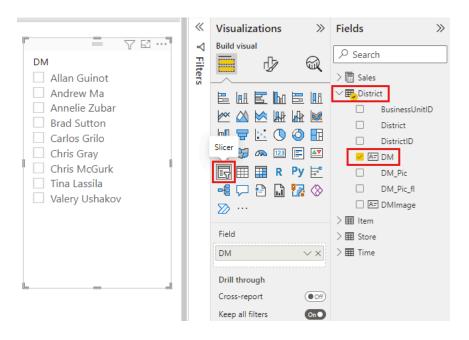
Line Chart



Pie Chart



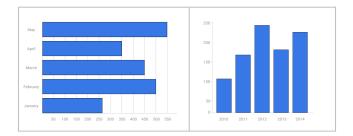
2. How do you add a slicer to a report?



- Go to the **Visualizations pane**, click on the **Slicer** icon.
- Drag a field (e.g., Quarter) into the slicer's **Field well**.
- The slicer will filter other visuals based on selected values.

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

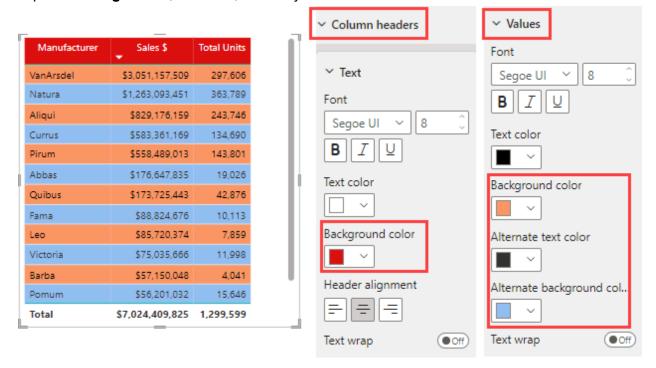
Bar Graph and Column Graph Pose Great Data Presentation



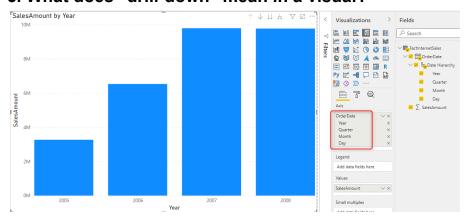
- Bar Chart: Displays data horizontally (categories on the Y-axis).
- Column Chart: Displays data vertically (categories on the X-axis).

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

- Select the visual.
- In the **Visualizations pane**, go to the **Format** tab (paint roller icon).
- Expand "Background", turn it on, choose your desired color.

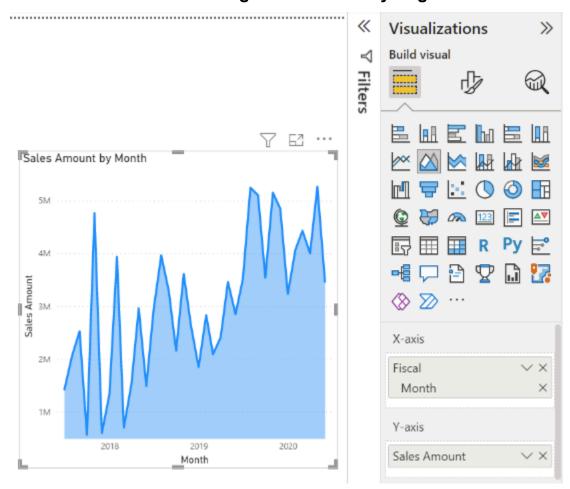


5. What does "drill-down" mean in a visual?



• **Drill-down** allows users to click on a visual element (e.g., region) and **explore deeper levels** of hierarchical data (e.g., product, then quarter).

6. Create a bar chart showing SalesAmount by Region.



- Insert a Bar Chart.
- Drag Region to the **Axis**, and SalesAmount to the **Values** field.

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

- Insert a Slicer.
- Drag Quarter into the slicer's field well.
- Ensure slicer affects all visuals (default behavior, or check with **Edit Interactions**).

8. Format the bar chart to show data labels.

- Select the bar chart.
- In the Format pane, turn on Data Labels under the corresponding section.

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

- Insert a Line Chart.
- Drag Quarter to the **X-axis**, and SalesAmount to the **Values**.

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

- Select your **Bar Chart**.
- Drag Product to the **Tooltips** field well in the visual.

11. Sync slicers across multiple report pages.

- Select the slicer.
- Go to the **View** tab → click **Sync Slicers**.
- In the **Sync Slicer pane**, select the pages where you want it synced and shown.

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

- Create a parameter table with values like "Sales" and "Profit".
- Create a measure:

```
SelectedMetric =
SWITCH (
SELECTEDVALUE(MetricSelector[Metric]),
"Sales", SUM(Sales[SalesAmount]),
"Profit", SUM(Sales[Profit]),
BLANK()
)
```

• Use this measure in your visual, and control it via a slicer.

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

- In Fields pane:
 - Drag Product under Region, then drag Quarter under Product to form a hierarchy.
- Add the hierarchy to a visual (e.g., bar chart).
- Use the **drill icons** (\(\) or double arrow) in the top-right of the visual to enable drill.

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

- Place both visuals in the same area (one visible, one hidden).
- Go to View → Bookmarks Pane.
- Create two bookmarks:
 - One showing Visual A (hide Visual B).
 - One showing Visual B (hide Visual A).
- Add buttons to toggle using those bookmarks.

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

- Recommendations:
 - Limit visuals per page (Power BI suggests < 8).
 - Use **summary tables** instead of detailed ones.
 - o Reduce use of high-cardinality fields in slicers.
 - Use performance analyzer (View tab) to identify slow visuals.
 - o **Disable interactions** where not needed.
 - Apply query reduction techniques in slicers (e.g., "Apply button").