

Creating Basic Visualizations & Adding Interactivity to Visuals - Homework Answers

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

1. Bar chart
2. Line chart
3. Pie chart

How do you add a slicer to a report?

In the Report view, click the Slicer visual icon from the Visualizations pane, drag a field into the slicer, and place it on the report canvas.

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

A bar chart displays data with horizontal bars, while a column chart displays data with vertical bars.

How do you change the color of a visual background?

Select the visual, go to the Format pane, expand 'Effects', and change the 'Background color' setting.

What does 'drill-down' mean in a visual?

Drill-down allows you to view data at more detailed levels within a hierarchy, such as going from Region to Product to Quarter.

Create a bar chart showing SalesAmount by Region.

In Power BI, select the Bar Chart visual, drag 'Region' to the Axis field and 'SalesAmount' to the Values field.

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

Insert a Slicer visual, drag 'Quarter' into the Field well, and ensure it interacts with all visuals via the 'Edit interactions' option.

Format the bar chart to show data labels.

Select the bar chart, open the Format pane, enable 'Data labels' and adjust formatting as desired.

Use a line chart to show SalesAmount trends over Quarter.

Insert a Line Chart visual, drag 'Quarter' to the Axis and 'SalesAmount' to the Values field.

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

Create a tooltip page or add 'Product' to the Tooltips field in the bar chart settings.

Sync slicers across multiple report pages.

Use the 'Sync slicers' pane to ensure the same slicer filters multiple pages.

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

Use a parameter table with `SELECTEDVALUE()` in DAX to switch between measures, and bind it to a slicer.

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

In the Fields pane, right-click 'Region', create a hierarchy, add 'Product' and 'Quarter' to it, then use it in visuals.

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

Place both visuals in the same location, create bookmarks for each state, and use buttons to switch between them.

Optimize a slow-rendering report with 10+ visuals.

Reduce the number of visuals per page, use aggregated data, disable unnecessary interactions, and enable performance analyzer to detect bottlenecks.