



# Creating Interactive Dashboards

## Section 1: Learn

### What is an Interactive Dashboard?

An interactive dashboard in Power BI is a collection of visual elements that allow users to filter, drill-down, and explore data dynamically. Unlike static reports, interactive dashboards enable real-time decision-making and better data analysis.

### Why Create Interactive Dashboards?

- **Enhances User Experience:** Allows users to explore data with filters and slicers.
- **Provides Deeper Insights:** Enables drill-through and cross-filtering for detailed analysis.
- **Improves Decision-Making:** Presents key performance indicators (KPIs) in a clear, interactive format.
- **Saves Time:** Automates repetitive reporting tasks and provides real-time updates.

### Key Features of Interactive Dashboards

Feature	Description
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Slicers	Filters data based on user selection.
Drill-throughs	Allows users to click on visuals to see detailed reports.
Cross-Filtering	Automatically updates all visuals when selecting a value.
Bookmarks	Saves different views for easy navigation.
Custom Tooltips	Shows extra details when hovering over visuals.
KPI Indicators	Displays progress toward goals using dynamic visuals.

### ***How to Create an Interactive Dashboard in Power BI?***

1. ***Import Data*** → Load a dataset into Power BI.
2. ***Design Visuals*** → Add charts, tables, and KPIs.
3. ***Enable Interactivity*** → Use slicers, filters, and drill-throughs.
4. ***Customize Layout*** → Arrange visuals for clarity and easy navigation.
5. ***Publish & Share*** → Share the dashboard via Power BI Service.



## *A Brief History*

Dashboards have been used in business intelligence for decades. With the rise of tools like Power BI, *interactive dashboards have replaced static reports*, making data-driven decisions easier and more efficient.

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## *Section 2: Practice*

### *Step-by-Step Guide to Creating an Interactive Dashboard*

#### *Step 1: Importing Data*

1. *Open Power BI Desktop.*
2. *Click Get Data and import an Excel or SQL dataset.*
3. *Click Load to add the data to the Power BI model.*

#### *Step 2: Adding Visuals*

1. *Drag and drop a Bar Chart to the canvas.*
2. *Assign Sales Amount to the Y-Axis and Region to the X-Axis.*
3. *Add a Card Visual to display Total Sales.*

#### *Step 3: Making the Dashboard Interactive*

1. *Adding a Slicer:*
  - *Click on Slicer from the Visualizations pane.*



- Drag **Year** to the slicer field to enable filtering by year.

## 2. Enabling Drill-through:

- Create a new page for detailed reports.
- Drag a category field to the **Drill-through** well.
- Users can now right-click on a category to see **detailed data**.

## 3. Applying Cross-Filtering:

- Click on a visual and go to **Format Pane > Edit Interactions**.
- Adjust filters so that selecting a category updates other visuals.

## Example: Building a Sales Dashboard

1. Import sales data with region, product, and total sales.
  2. Create a bar chart showing total sales by product category.
  3. Add a slicer to filter by year.
  4. Enable drill-through to view detailed reports on sales trends.
  5. Customize layout and colors for readability.
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## *Section 3: Know More*

### *Frequently Asked Questions*

*1. What is the difference between a report and a dashboard in Power BI?*

- Report: A collection of multiple pages with detailed visuals.*
- Dashboard: A single-page view that provides key insights using interactive elements.*

*2. How do slicers improve dashboards?*

*Slicers allow users to filter visuals dynamically, making the dashboard more interactive and user-friendly.*

*3. What is the purpose of drill-through?*

*Drill-through enables users to click on a data point and view detailed insights, improving analysis.*

*4. How can I share my dashboard with others?*

*You can publish the dashboard to Power BI Service and share it with colleagues via a secure link or workspace access.*



### *5. Can I use custom visuals in my dashboard?*

*Yes! Power BI supports third-party visuals from Microsoft AppSource, allowing more customization.*

### *6. What is a KPI visual, and why is it useful?*

*A KPI visual tracks progress toward a goal, helping businesses monitor performance at a glance.*

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*These notes will help you design and build interactive dashboards in Power BI, making your reports more engaging, insightful, and easy to use!*