lab: title: 'Design a Report in Power BI Desktop, Part 2'

### module: 'Module 7 - Create Reports'

## Design a Report in Power BI Desktop, Part 2

#### The estimated time to complete the lab is 45 minutes

In this lab you will enhance the Sales Analysis with advanced design features.

In this lab you learn how to:

- Sync slicers
- · Create a drillthrough page
- Apply conditional formatting
- · Create and use bookmarks

#### Lab story

This lab is one of many in a series of labs that was designed as a complete story from data preparation to publication as reports and dashboards. You can complete the labs in any order. However, if you intend to work through multiple labs, for the first 10 labs, we suggest you do them in the following order:

- 1. Prepare Data in Power BI Desktop
- 2. Load Data in Power BI Desktop
- 3. Model Data in Power BI Desktop, Part 1
- 4. Model Data in Power BI Desktop, Part 2
- 5. Create DAX Calculations in Power BI Desktop, Part 1
- 6. Create DAX Calculations in Power BI Desktop, Part 2
- 7. Design a Report in Power BI Desktop, Part 1
- 8. Design a Report in Power BI Desktop, Part 2
- 9. Create a Power BI Dashboard
- 10. Create a Power BI Paginated Report
- 11. Perform Data Analysis in Power BI Desktop
- 12. Enforce Row-Level Security

### **Exercise 1: Configure Sync Slicers**

In this exercise you will sync the report page slicers.

#### Task 1: Get started - Sign in

In this task you will setup the environment for the lab by signing in to Power BI.

Important: If you have already signed in to Power BI, continue from the next task.

1. To open Microsoft Edge, on the taskbar, click the Microsoft Edge program shortcut.

2.	In the Microsoft Edge browser window, navigate to https://powerbi.com.
	Tip: You can also use the Power BI Service favorite on the Microsoft Edge favorites bar.
3.	Click <b>Sign In</b> (located at the top-right corner).
4.	Enter the account details provided to you.
5.	If prompted to update the password, reenter the provided password, and then enter and confirm a new password.
	Important: Be sure to record your new password.
6.	Complete the sign in process.
7.	If prompted by Microsoft Edge to stay signed in, click <b>Yes</b> .
8.	In the Microsoft Edge browser window, in the Power BI service, in the Navigation pane, expand My Workspace.
9.	Leave the Microsoft Edge browser window open.
Tack	2: Get started – Open report
Task	2. Get started Open report
In this	task you will setup the environment for the lab by opening the starter report.
	tant: If you are continuing on from the previous lab (and you completed that lab successfully), do not complete this task; d, continue from the next task.
1.	To open the Power BI Desktop, on the taskbar, click the Microsoft Power BI Desktop shortcut.
2.	To close the getting started window, at the top-left of the window, click ${\bf X}$ .
3.	To sign in to the Power BI service, at the top-right, click <b>Sign In</b> .
4.	Complete the sign in process using the same account used to sign in to the Power BI service.
5.	To open the starter Power BI Desktop file, click the File ribbon tab to open the backstage view.
6.	Select Open Report.
7.	Click Browse Reports.
8.	In the Open window, navigate to the D:\DA100\Labs\08-design-report-in-power-bi-desktop-enhanced\Starter folder.
9.	Select the Sales Analysis file.
10.	Click Open.
11.	Close any informational windows that may open.
12.	To create a copy of the file, click the <b>File</b> ribbon tab to open the backstage view.
13.	Select Save As.
14.	If prompted to apply changes, click <b>Apply</b> .

15.	In the Save As window, navigate to the D:\DA100\MySolution folder.
16.	Click Save.
Task	3: Sync slicers
In this	task you will sync the <b>Year</b> and <b>Region</b> slicers.
You wi	ill continue the development of the report created in the Design a Report in Power Bl Desktop, Part 1 lab.
1.	In Power BI Desktop, on the <b>Overview</b> page, set the <b>Year</b> slicer to <b>FY2018</b> .
2.	Go to the My Performance page, and then notice that the Year slicer is a different value.
	When slicers aren't synced it can contribute to misrepresentation of data and frustration for report users. You'll now synthe report slicers.
3.	Return to the <b>Overview</b> page, and then select the <b>Year</b> slicer.
4.	On the View ribbon tab, from inside the Show Panes group, click Sync Slicers.
5.	In the <b>Sync Slicers</b> pane (at the left of the <b>Visualizations</b> pane), in the second column (which represents syncing), check the checkboxes for the <b>Overview</b> and <b>My Performance</b> pages.
6.	On the <b>Overview</b> page, select the <b>Region</b> slicer.
7.	Sync the slicer with the <b>Overview</b> and <b>Profit</b> pages.
8.	Test the sync slicers by selecting different filter options, and then verifying that the synced slicers filter by the same selection.
9.	To close the Sync Slicer page, click the X located at the top-right of the pane.
Exe	rcise 2: Configure Drill Through
	exercise you will create a new page and configure it as a drill through page. When you've completed the design, the page ok like the following:
Task	1: Create a drill through page
In this	task you will create a new page and configure it as a drill through page.
	Add a new report page named <b>Product Details</b> .
1.	Add a new report page named r rouder betails.
0	District aliabeth a Dandwet Details as an each condition and each liids Dans
2.	Right-click the <b>Product Details</b> page tab, and then select <b>Hide Page</b> .
	Report users won't be able to go to the drill through page directly. They'll need to access it from visuals on other pages. You'll learn how to drill through to the page in the final exercise of this lab.

3. Beneath the Visualizations pane, in the Drill Through section, add the Product | Category field to the Add Drill-Through Fields Here box.

	the table name and <b>Category</b> is the field name.
4.	To test the drill through page, in the drill through filter card, select <b>Bikes</b> .
5.	At the top-left of the report page, notice the arrow button.
	A button is added automatically when a field is added to the drill through well/area. It allows report users to navigate back to the page from which they drilled through.
6.	Add a <b>Card</b> visual to the page, and then resize and position it so it sits to the right of the button and fills the remaining width of the page.
7.	Drag the <b>Product   Category</b> field into the card visual.
8.	Configure the format options for the visual, and then turn the Category Label property to Off.
9.	Set the <b>Background Color</b> property to a light shade of gray.
10.	Add a <b>Table</b> visual to the page, and then resize and position it so it sits beneath the card visual and fills the remaining space on the page.
11.	Add the following fields to the visual:
	Product   Subcategory
	Product   Color
	Sales   Quantity
	Sales   Sales
	Sales   Profit Margin
12.	Configure the format options for the visual, and in the <b>Grid</b> section, set the <b>Text Size</b> property to <b>20pt</b> .
	The design of the drill through page is almost complete. You'll enhance the page with conditional formatting in the next exercise.
Exe	rcise 3: Add Conditional Formatting
	exercise you will enhance the drill through page with conditional formatting. When you've completed the design, the page ok like the following:
Tack	a 1: Add conditional formatting
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In this task you will enhance the drill through page with conditional formatting.

- 1. Select the table visual.
- $2. \ \ In the visualization pane, click the down-arrow on the \textbf{Profit Margin} value, and then select \textbf{Conditional Formatting | Icons.}$

o delete the middle rule, at the left of the yellow triangle, click X.  onfigure the first rule (red diamond) as follows:  o In the second control, remove the value  on the third control, select Number
onfigure the first rule (red diamond) as follows:  o In the second control, remove the value
onfigure the first rule (red diamond) as follows:  o In the second control, remove the value
In the second control, remove the value
In the second control, remove the value
<ul> <li>In the fifth control, enter 0</li> </ul>
In the sixth control, select <b>Number</b>
onfigure the second rule (green circle) as follows:
<ul> <li>In the second control, enter 0</li> </ul>
<ul> <li>In the third control, select Number</li> </ul>
<ul> <li>In the fifth control, remove the value</li> </ul>
<ul> <li>In the sixth control, select Number</li> </ul>
the rules can be interpreted as follows: display a red diamond if the profit margin value is less than 0; otherwise if the alue is great or equal to zero, display a green circle.
TICK OK.
the table visual, verify that the that the correct icons are displayed.
The table visual, verify that the that the correct icons are displayed.
onfigure background color conditional formatting for the <b>Color</b> field.
the Background Color – Color window, in the Format By dropdown list, select Field Value.
the Based on Field dropdown list, select Product   Formatting   Background Color Format.
lick <b>OK</b> .
epeat the previous steps to configure font color conditional formatting for the <b>Color</b> field, using the <b>Product   Formatting</b> F <b>ont Color Format</b> field
ou may recall that the background and font colors were source from the ColorFormats.csv file in the Prepare Data in lower BI Desktop lab, and then integrated with the Product query in the Load Data in Power BI Desktop lab.
cise 4: Add Bookmarks and Buttons
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In this	task you will add two bookmarks, one to display each of the monthly sales/targets visuals.
1.	Go to the <b>My Performance</b> page.
2.	On the <b>View</b> ribbon tab, from inside the <b>Show Panes</b> group, click <b>Bookmarks</b> .
3.	On the View ribbon tab, from inside the Show Panes group, click Selection.
4.	In the <b>Selection</b> pane, beside one of the <b>Sales and Target by Month</b> items, to hide the visual, click the eye icon.
5.	. In the <b>Bookmarks</b> pane, click <b>Add</b> .
6.	To rename the bookmark, double-click the bookmark.
7.	If the visible chart is the bar chart, rename the bookmark as <b>Bar Chart ON</b> , otherwise rename the bookmark as <b>Column Chart ON</b> .
8.	To edit the bookmark, in the Bookmarks pane, hover the cursor over the bookmark, click the ellipsis, and then select Data
	Disabling the <b>Data</b> option means the bookmark won't use the current filter state. That's important because otherwise the bookmark would permanently lock in the filter currently applied by the <b>Year</b> slicer.
9.	To update the bookmark, click the ellipsis again, and then select <b>Update</b> .
	In the following steps, you'll create and configure a second bookmark to show the second visual.
10.	In the <b>Selection</b> pane, toggle the visibility of the two <b>Sales and Target by Month</b> items.
	In other words, make the visible visual hidden, and make the hidden visual visible.
11.	Create a second bookmark, and name it appropriately (either Column Chart ON or Bar Chart ON).
12.	Configure the second bookmark to ignore filters ( <b>Data</b> option off), and update the bookmark.
13.	In the <b>Selection</b> pane, to make both visuals visible, simply show the hidden visual.
14.	Resize and reposition both visuals so they fill the page beneath the multi-card visual, and completely overlap one another
	Tip: To select the visual that is covered up, select it in the <b>Selection</b> pane.
15.	In the <b>Bookmarks</b> pane, select each of the bookmarks, and notice that only one of the visuals is visible.
	The next stage of design is to add two buttons to the page, which will allow the report user to select the bookmarks.
Task	2: Add buttons
In this	task you will add two buttons, and assign bookmark actions to each.
1.	On the <b>Insert</b> ribbon, from inside the <b>Elements</b> group, click <b>Button</b> , and then select <b>Blank</b> .
2.	Position the button directly beneath the <b>Year</b> slicer.

3. Select the button, and then in the **Visualizations** pane, turn the **Button Text** property to **On**.

4.	Expand the <b>Button Text</b> section, and then in the <b>Button Text</b> box, enter <b>Bar Chart</b> .
5.	Expand the <b>Background</b> section, and then set a background color using a complementary color.
6.	Turn the Action property to On (located near the bottom of the list).
7.	Expand the <b>Action</b> section, and then set the <b>Type</b> dropdown list to <b>Bookmark</b> .
8.	In the Bookmark dropdown list, select Bar Chart ON.
9.	Create a copy of the button by using copy and paste, and then configure the new button as follows:
	Tip: The shortcut commands for copy and paste are Ctrl+C followed by Ctrl+V.
	Set the Button Text property to Column Chart
	<ul> <li>In the Action section, set the Bookmark dropdown list to Column Chart ON</li> </ul>
	The design of the Sales Analysis report is now complete.
Task	3: Publish the report
In this	task you will publish the report.
1.	Select the <b>Overview</b> page.
2.	In the <b>Year</b> slicer, select <b>FY2020</b> .
3.	In the Region slicer, select Select All.
4.	Save the Power BI Desktop file.
	The file must always be saved prior to publishing to the Power BI service.
5.	On the <b>Home</b> ribbon tab, from inside the <b>Share</b> group, click <b>Publish</b> .
6.	In the <b>Publish to Power</b> BI window, notice that <b>My Workspace</b> is selected.
7.	To publish the report, click <b>Select</b> .
8.	If prompted to replace the dataset, click <b>Replace</b> .
9.	When the publication has succeeded, click <b>Got It</b> .
10.	Close Power BI Desktop.
	You'll explore the report in the Power BI service in the next exercise.
Exe	rcise 5: Explore the Report
In this	exercise you will explore the report in the Power BI service.

# Task 1: Explore the report

In this task you will explore the report in the Power BI service.

1. In the Microsoft Edge browser window, in the Power BI service, in the Navigation pane, click the Sales Analysis report.

	then select Drill Through   Product Details.
3.	Notice that the <b>Product Details</b> page is for <b>Clothing</b> .
4.	To return to the source page, at the top-left corner of the page, click the arrow button.
5.	Select the <b>My Performance</b> page.
6.	Click each of the buttons, and then notice that a different visual is displayed.

2. To test the drill through report, in the Overview page, in the Quantity by Category visual, right-click the Clothing bar, and

### Task 2: Finish up

In this task you will complete the lab.

1.	To return to your workspace, in the banner across the window web page, click My Workspace

2. Leave the Microsoft Edge browser window open.