

Learn About Analysis, Interactive Reports, and Dashboards



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The **User Console** is a fun, easy to use, web-based design environment where you can analyse data, create interactive reports, dashboard reports, and build integrated dashboards to share business intelligence solutions with others in your organization and on the internet. In addition to its design features, the User Console offers a wide variety of system administration features for configuring the Business Analytics (BA) Server, maintaining Pentaho licences, setting up security, managing report scheduling, and tailoring system performance to meet your requirements.

The topics found in this section give you an overview of the reports and dashboards you create with the **User Console**, to help you became familiar with the look and feel of the console.

Prerequisites

Before you can work with the User Console, you will have to have *installed* the Pentaho software and *configured* the BA Server.

Expertise

The User Console does not require any special skills or knowledge to use its design environment. However, to use its system administration features you should know where your data is stored and how to access it, as well as details about your system configuration and security providers.

Tools

Through the **User Console** you can access these Pentaho tools and features, as well as the BA Repository on the BA Server.

- Analyzer
- Interactive Reports
- · Dashboard Reports
- · Dashboard Designer
- Data Source Wizard
- · Data Source Model Editor

Login Credentials

These tasks require that you login to the User Console with an evaluator user name and password.

Get Started with Pentaho Reporting Tools



After you define the data sources for your BA Server, you are ready to begin working with the Pentaho User Console to create your first solutions.

To create a report, just follow the directions in each tutorial. Each section uses the sample data sources that are included with the installation of the Pentaho suite of software.

It is time to take a look at the User Console and learn how to create reports. Just follow the *Guide Post* graphics as you work with the tutorials to create your first Pentaho Reports and Dashboards.

- Tour the Pentaho User Console
- Get Started with Interactive Reports
- Get Started with Analyzer Reports
- Get Started with Dashboard Designer
- Next Steps

Tour the Pentaho User Console



If you use file management tools or any web browser, you should feel right at home with the **User Console**. To familiarize yourself with the different pages and controls of User Console, let us take you through a quick tour.

- Login to the User Console
- Home
- Browse Files
- Opened
- Schedules
- Use Pentaho Tools

Login to the User Console

Logging in to the **User Console** for the first time is easy with these steps.

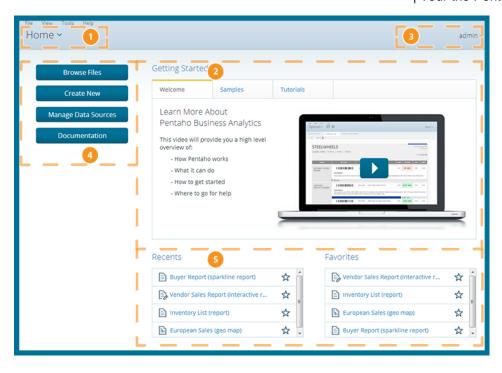
- Launch a Web browser and enter the URL of the Pentaho server.
 The page loads an introductory screen with a Login section.
- 2. Click to expand the menu to Login as an Evaluator.
- 3. You can choose to login as an Administrator or a Business User. Click GO to login.

You are now logged into the **User Console** and ready to explore.



Home

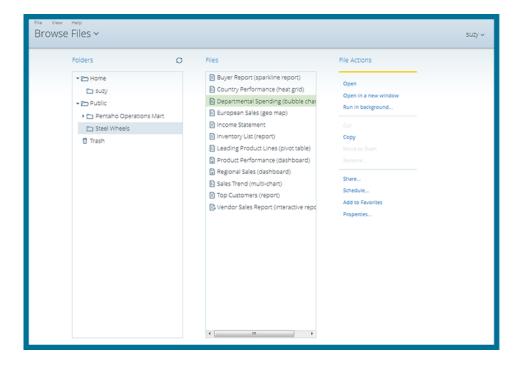
The first thing you see after you login to the console is the **Home** page, which serves as the starting place for the **User Console** and all of the tasks that you do with it.



Item	Name	Function
0	Home view	The Home drop-down menu lets you flip easily from page to page, or return to your Home page.
2	Getting Started	Displays some resources to help you get acquainted with the User Console and learn more about Pentaho Business Analytics.
		 Welcome shows an introductory video about Pentaho products. Samples holds a variety of sample reports and dashboards that you can use to get familiar with the software. Tutorials contains a number of tutorial videos that give you a visual tour of the User Console, reports, and dashboards.
3	Current User and Log Out	Shows the name of the person currently logged in to the User Console. Clicking the arrow next to the name lets you log out of the User Console.
4	Browse Files	Brings you to the Browse Files window, where you can locate your files using the Browsing and Files panes, and manage them using the Actions pane. Any files that you open appear in a new window.
	Create New	Gives you choices to create a new Analysis report, Interactive report, or Dashboard.
	Manage Data Sources	Gives an administrator access to the <i>Data Sources Wizard</i> . This button does not appear if you are not logged in with an administrator role.
	Documentation	Leads you to the <i>Pentaho InfoCenter</i> , which contains the documentation for Pentaho products.
		The Infocenter opens in a new window or tab.
5	Recents and Favorites	Shows a list of your most recently opened files. Clicking on the star next to a recently opened file adds it to your Favorites list.
		If this is your first time using the console, these two windows will be empty.

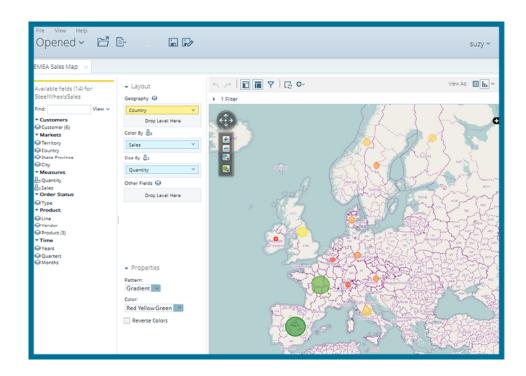
Browse Files

The Browse Files page helps you keep your files organized and makes them easier for you to find and work with.



Opened

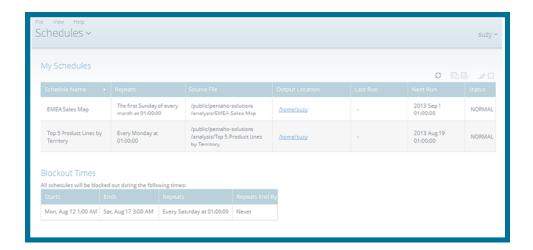
The Opened page activates after you open a file from the Browse Files page and provides a simple space to work with your files.



Schedules

All of your active scheduled reports appear in the list of schedules, which you can get to by clicking the **Home** dropdown menu, then the Schedules link, in the upper-left corner of the User Console page. You can also access your list of schedules from the Browse Files pane, if you have a report selected.

The list of schedules shows which reports are scheduled to run, the recurrence pattern for the schedule, when it was last run, when it is set to run again, and the current state of the schedule. You can edit and maintain each of your schedules by using the controls above the schedules list, on the right end of the toolbar.



Use Pentaho Tools

The Pentaho Business Analytics Suite download includes sample reports and a sample database called Steel Wheels. Steel Wheels is included so that you can quickly use the software and explore the Pentaho BA Suite.

This table helps you decide what tools to use for your needs and provides links to the corresponding articles.

Table 1: Pentaho Tools Decision Table

Explore	Choose Options			
Considerations	Interactive Reports	Analyzer Reports	Dashboard Designer	
Summary	Interactive Reports is a web- based design interface which is used to create both simple and on-demand operational reports without depending on IT or report developers.	Analyzer Reports is an intuitive analytical visualization tool that filters and drills down into business information contained in Pentaho Analysis data sources.	Dashboard Designer allows users to create dashboards with little or no training. The dashboard is several different reports brought together inside one screen.	
Expertise	Knowledge of basic computer functions, such as operating systems and web browsers.	Knowledge of basic computer functions, such as operating systems and web browsers.	Knowledge of basic computer functions, such as operating systems and web browsers.	
Recommendation Use Interactive Reports if you want to create a tabular report that answers an immediate business question, looks professional, can be printed quickly, and provides		Use Analyzer Reports if you want to compile data quickly while visually exploring your data, perform advanced sorting and filtering of your data, and want to see chart	Use Dashboard Designer if you want to create an interface to view many different reports at once, have quick access to web pages that you visit often, or view	

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Explore	Choose Options		
Considerations	Interactive Reports	Analyzer Reports	Dashboard Designer
	significant control over formatting elements such as fonts, column width or sorting, background colors, and more.	visualizations that include detailed stop-lighting.	dynamic charts and graphs within a space while you create reports in another.

Get Started with Interactive Reports



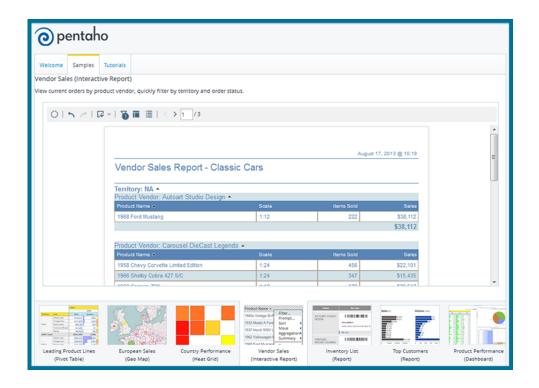
Interactive Reports is a web-based design interface which is used to create both simple and on-demand operational reports without depending on IT or report developers. Use Interactive Reports if you want to create a quick report that answers an immediate business question, looks professional, and provides significant control over formatting elements such as fonts, column width or sorting, background colors, and more.

- Interactive Report Sample Vendor Sales Report
- Tour the Interactive Panels
- Create Your First Interactive Report

Interactive Report Sample - Vendor Sales Report

This section highlights some popular Interactive Report capabilities that are available, using the sample report called Vendor Sales Report, located in the Getting Started widget.

- 1. In the **Getting Started** widget on the **Home** page, click the **Samples** tab.
- 2. Click to select **Vendor Sales** from the scrolling panel on the right.
- 3. Click Explore in the Samples pane.

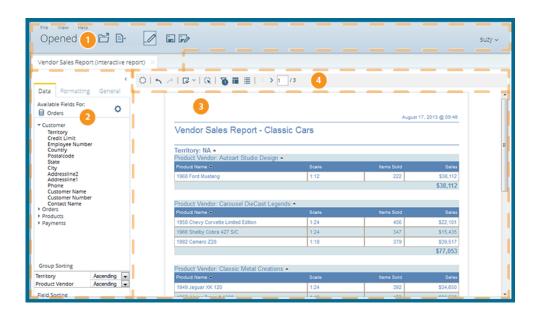


A new window opens showing the Vendor Sales sample report.

Tour the Interactive Panels

You can view the editable version of the Vendor Sales report in Interactive Reports by going to the Browse Files page in the User Console, and following these quick steps.

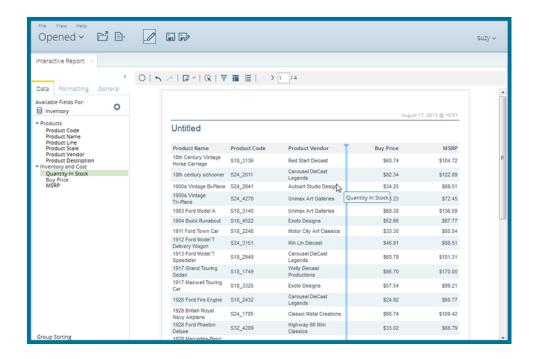
- 1. In the Folders pane, click to expand the Public folder, then click to highlight the Steel Wheels folder.
- 2. In the Files pane, double-click on Vendor Sales. The Opened page appears with the Interactive report and toolbars active.



Item	Name	Function
0	Opened view	Displays quick access buttons across the top to create and save new Analysis reports, Interactive reports, and Dashboards. Opened reports and files show as a series of tabs across the page.
2	Data, Formatting, and General panels	Use the Data panel to drag information into a column or a row on the report. Your report display changes as you drag items onto the Report Canvas .
		Delete a level or measure from your report by dragging it from the Layout panel to the trashcan that appears in the lower right corner of thef Report Panel .
		The Formatting panel allows you to change the font size and type on the opened report.
		The General panel allows you to set preferences, select a paper size for printing, and select from a variety of templates for your report.
3	Report Canvas	Shows a dynamic view of your Interactive report as you work to build it. The look of your report changes constantly as you work with Data , Formatting , and General panels to refine it.
4	Interactive Toolbar and Filters	Use the Toolbar functions to undo or redo actions, hide lists of fields, add or hide filters, disable the auto-refresh function, adjust settings, and change the view of your report.
		Use the Filters panel to display a list of filters applied to the active report, or edit or delete filters.

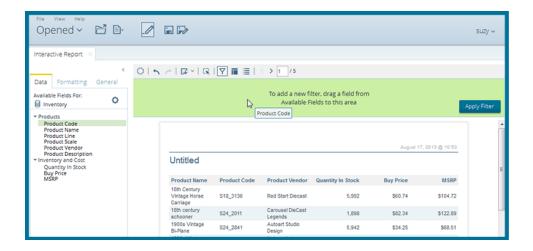
The instructions below guide you through the creation of your first Interactive report using the Steel Wheels sample data.

- 1. From the User Console Home page, click Create New, then choose Interactive Report.
- Choose the Inventory data source from the Select Data Source dialog box. Click OK. A blank Interactive report canvas appears.
- Click and drag the Product Code element onto the Report Canvas until a highlighted vertical line appears. Drop it
 onto the Report Canvas and continue dragging and dropping these fields onto the canvas: Product Name, Product
 Vendor, Quantity in Stock, Buy Price, and MSRP.

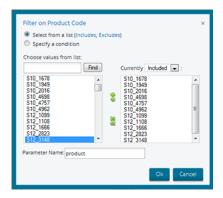


The data from the chosen fields appears on the **Report Canvas** and populates with the information from the server. You can change the order of the columns by clicking the column heads and dragging the columns left or right until they are in the order you want.

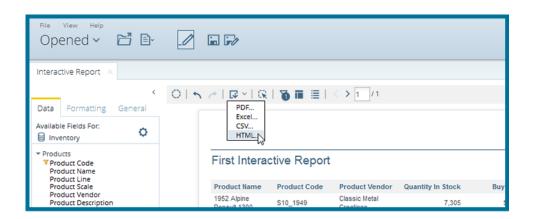
4. After you have arranged your columns in order, apply a filter to the data by clicking on the **Filter** icon in the toolbar. After the filter pane expands, drag the **Product Code** field onto the filter pane.



5. Choose more than one item from the **Filter** dialog box by holding down the Shift key and clicking on the first item in the list, **S10_1678**, then clicking on item **S12_3148**, then clicking the top, right-pointing arrow.



- 6. Type product as your parameter name in the text box. Click OK, then click Apply Filter on the Filter canvas.
- Rename your report by double-clicking on Untitled in the Report Canvas, and typing the name First Interactive Report in the field that appears.
- 8. Click the Save As button in the toolbar. When the Save As dialog box appears, save your report as First Interactive Report, in your user folder and click Save.
- 9. If you want to export the report, click the Export icon on the toolbar and chose a format for the export.



The report exports in the selected format and a paper copy can be printed from the export.

You have successfully created a simple Interactive report from scratch. *Use Interactive Reports* shows you how to work with complex Interactive reports.

Get Started with Analyzer Reports



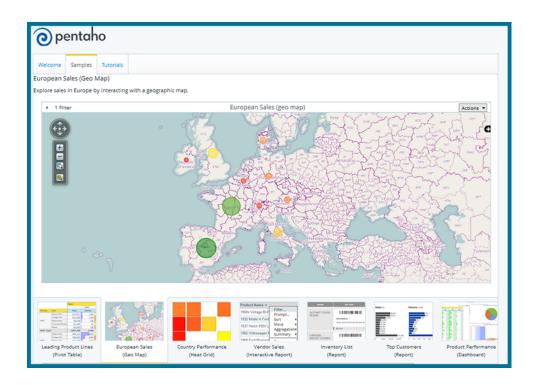
Analyzer Reports is an intuitive analytical visualization tool that filters and drills down into business information contained in Pentaho Analysis data sources. Use Analyzer Reports if you want to compile data quickly in an interactive environment, perform advanced sorting and filtering of your data, and want to see chart visualizations that include conditional stop-lighting.

- Analyzer Report Sample European Sales
- Tour the Analyzer Panels
- Create Your First Analyzer Report

Analyzer Report Sample - European Sales

This section highlights some popular **Analyzer** capabilities that are available, using the sample report called *European* Sales located in the Getting Started widget.

- 1. In the **Getting Started** widget on the **Home** page, click the **Samples** tab.
- 2. Click to select European Sales from the scrolling panel on the right.
- 3. Click Explore in the Samples pane.

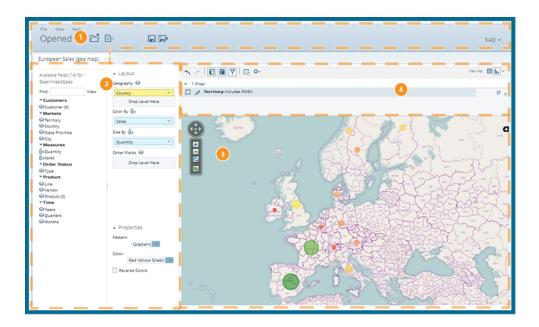


A new window opens showing the **European Sales** sample report.

Tour the Analyzer Panels

You can view the editable version of European Sales in Analyzer by going to the Browse Files page in the User Console, and following these quick steps.

- 1. In the Browsing pane, click to expand the Public folder, then click to expand the Steel Wheels folder.
- 2. In the center pane, double-click on European Sales. The Opened page appears with the Analysis report. Click the Add More Fields and Rearrange Fields icons on the toolbar to expand the Available Fields and Layout panels.

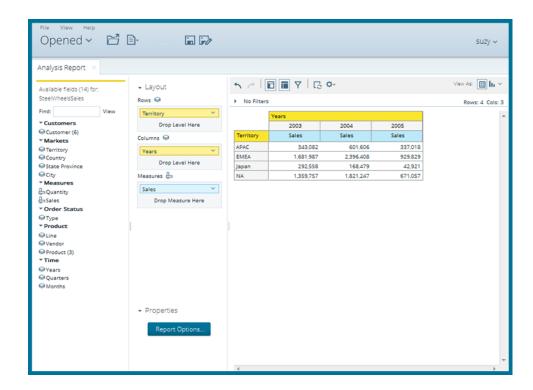


Item	Name	Function
1	Opened view	Displays quick access buttons across the top to create and save new Analysis reports, Interactive reports, and Dashboards. Opened reports and files show as a series of tabs across the page.
2	Available Fields and Layout panels	Use the Available Fields and Layout panels to drag levels and measures into a report.
		Your report displays changes in the Report Canvas as you drag items onto the Layout panel.
		Delete a level or measure from your report by dragging it from the Layout panel to the trashcan that appears in the lower right corner of the Report Canvas .
3	Report Canvas	Shows a dynamic view of your report as you work to build it. The look of your report changes constantly as you work with Available Fields and Layout panels to refine it.
		The Report Canvas shows different fields based on the chart type selected.
4	Analyzer Toolbar and Filters	Use the Analyzer Toolbar functions to undo or redo actions, hide lists of fields, add or hide filters, disable the auto-refresh function, adjust settings, and change the view of your report.
		Use the Filters panel to display a list of filters applied to the active report, or edit or delete filters.

Create Your First Analyzer Report

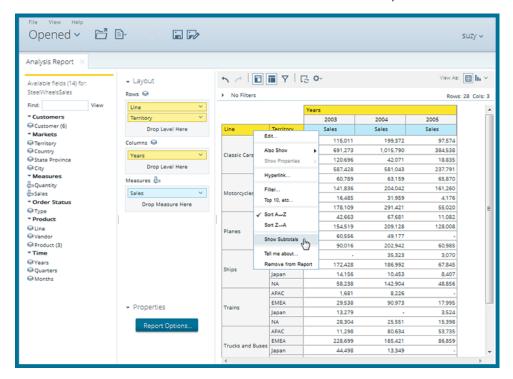
The instructions below guide you through the creation of your first Analyzer report using the Steel Wheels sample data.

- 1. From the User Console Home page, click Create New, then choose Analysis Report.
- 2. Choose the Steel Wheels data source from the Select Data Source dialog box. Click OK. A blank Analyzer report appears.
- 3. Click and drag the Territory element and drop it into the Rows field. Click and drag the Years element and drop it into the Columns field. Click and drag the Sales element into the Measures field.

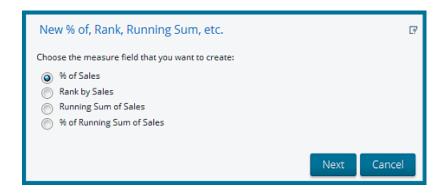


A table with the **Territory**, **Years**, and **Sales** data appears and populates with the information from the server.

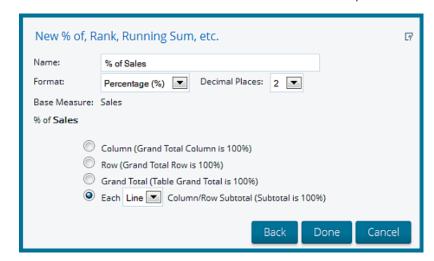
4. Click and drag the Line field and drop it next to the Territory column on the canvas. Right-click the Line column header and select Show Subtotals from the menu that appears.



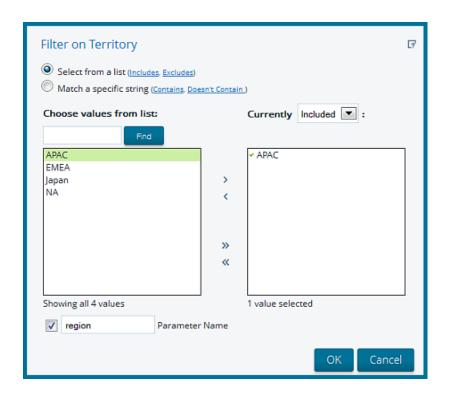
- 5. Right-click the first Sales column and select Conditional Formatting -> Data Bar Green in the menu that appears.
- **6.** Right-click the same **Sales** column and select **User Defined Measure** -> % of **Rank**, **Running Sum..**. In the dialog box that appears, select the radio button next to **% of Sales**. Click **Next**.



7. Select the radio button for Each Line Column/Row Subtotal (Subtotal is 100%). Click Done.

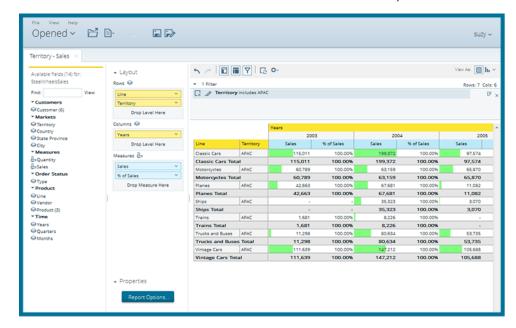


- **8.** Expand the **Filters** canvas by clicking the **Show Filters** icon. Click and drag the **Territory** field from the **Available Fields** panel into the filter canvas.
 - The Filter on Territory dialog box appears.
- **9.** In the **Filter on Territory** dialog box, select **APAC** from the list and click the top, right-pointing arrow to move it to the box on the right.
- **10.**Enable **Parameter Name** by clicking on the check box in the bottom left of the dialog box. Type **region** as your parameter name in the text box. Click **OK**.



The report updates and displays sales data for APAC exclusively.

Click the line that separates each column to adjust it for better viewing. Move the line right or left as needed.



11.Click the **Save As** icon in the toolbar. When the **Save As** dialog box appears, save your report as **Territory - Sales** in your user folder and click **Save**.

You have successfully created a simple Analyzer report from scratch. You may export the report to one of several different formats or close the report. *Use Analyzer Reports* guides you through working with complex Analyzer reports.

Get Started with Dashboard Designer



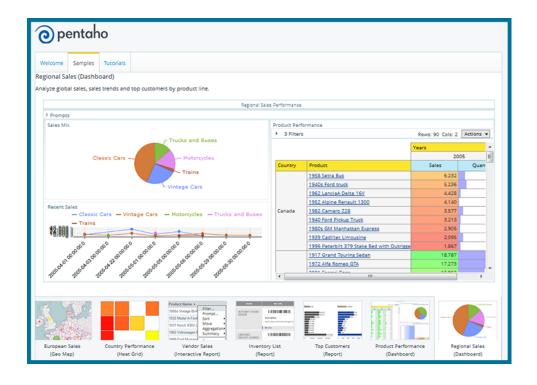
Dashboard Designer allows you to create dashboards with little or no training. The dashboard is several different reports brought together inside one screen. Use Dashboard Designer if you want to create an interface to view many different reports at once, have quick access to web pages that you visit often, or view dynamic charts and graphs within a space while you create reports in another.

- Dashboard Sample Regional Sales
- Tour the Dashboard Panels
- Create Your First Dashboard

Dashboard Sample - Regional Sales

This section highlights some popular Dashboard Designer capabilities that are available, using the sample dashboard called Regional Sales, located in the Getting Started widget.

- 1. In the **Getting Started** widget on the **Home** page, click the **Samples** tab.
- 2. Click to select Regional Sales from the scrolling panel on the right.
- 3. Click Explore in the Samples pane.

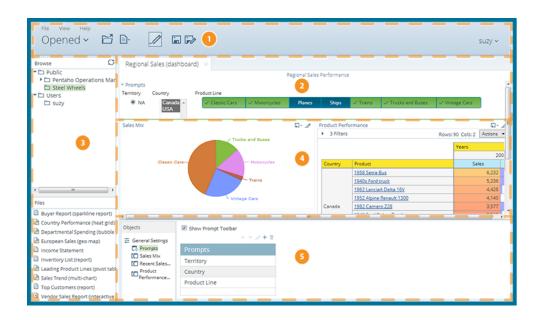


A new window opens showing the **Regional Sales** sample dashboard.

Tour the Dashboard Panels

You can view the editable version of the Regional Sales dashboard in Dashboard Designer by going to the Browse Files page in the User Console, and following these quick steps.

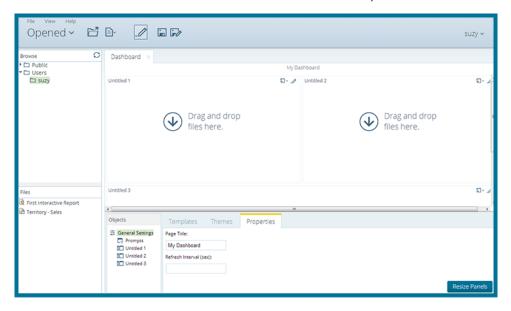
- 1. In the Folders pane, click to expand the Public folder, then click to highlight the Steel Wheels folder.
- 2. In the center pane, double-click on Regional Sales. The Opened page appears with the dashboard and panels active.



Item	Name	Function
1	Opened view	Displays quick access buttons across the top to create and save new Analysis reports, Interactive reports, and Dashboards. Opened reports and files show as a series of tabs across the page.
2	Prompts panel	The Prompts panel gives you a way to add filters to the individual parts of your dashboard.
3	Browse Folders and Files panel	Locate your files using the Browse and Files panels, and add them to dashboards.
4	Dashboard canvas	Shows a dynamic view of your Dashboard as you work to build it. The look of your dashboard refreshes as you add content from the Browse Folders and Files panels, and work with the Prompts or Objects panels.
5	Objects panel	Refine the look of your dashboard with the Objects panel by choosing a dashboard template or changing the titles for each object in the dashboard.

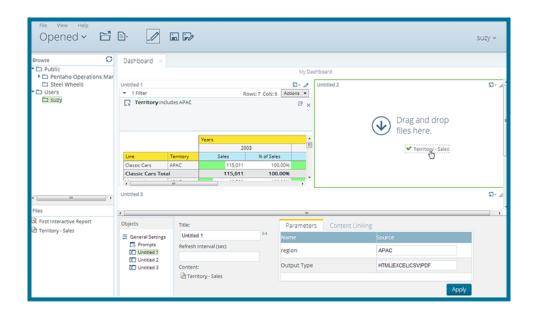
Create Your First Dashboard

- 1. From the User Console Home page, click Create New, then choose Dashboard.
- 2. In the Edit Pane, click **Templates** tab and select the 2 over 1 layout to use for this exercise.
- 3. Click Properties, and type My Dashboard in the Page Title text box. This is the title for your dashboard page.



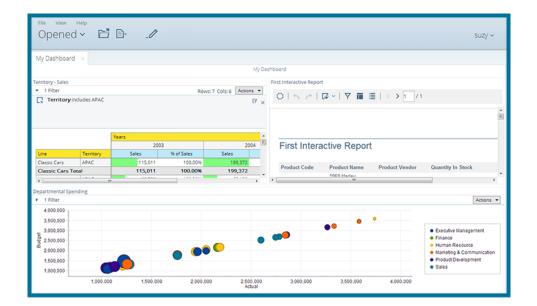
The name you entered appears on the top left corner of the dashboard.

- **4.** Click the **Themes** tab and select the theme of your choice. The new theme will be applied to your dashboard immediately.
- 5. Click the Properties tab and type My Dashboard in the Page Title text box. This is the title for your dashboard
- 6. Locate the Analyzer report you created earlier by going to the Browse pane to the left of the Dashboard canvas and clicking on the Users folder and clicking to highlight your folder. Click-and-drag the Territory - Sales file from the Files pane and onto the top-left dashboard panel.
- Within the Edit Pane, type Territory Sales in the Title text box and click Apply. The dashboard panel is populated with the **Territory - Sales** report.



- 8. Locate your Interactive report by going to the Browse pane to the left of the Dashboard canvas and clicking on the Users folder and clicking to highlight your folder. Click-and-drag the First Interactive Report file from the Files pane and onto the top-right dashboard panel.
- Within the Edit Pane, type First Interactive Report in the Title text box and click Apply. The right dashboard panel is populated by the First Interactive Report report. You can drag any report from the **Steel Wheels** folder in **Public** into the bottom dashboard panel.

- 10.Click on the Save as icon in the toolbar. When the Save As dialog box appears, save your dashboard as My Dashboard in your user folder and click Save.
 - a) Close the dashboard, then go to Browse Files and double-click on My Dashboard in the Files pane.



You have successfully created a simple Dashboard from scratch. *Use Dashboard Designer* illustrates how to work with complex dashboards.

Next Steps



After you have finished working through the walk through tutorials, you are ready to learn more about Pentaho reporting.

Learn More

- Create Analysis, Interactive Reports, and Dashboards provides in-depth details about creating eye-catching business intelligence deliverables for your user community.
- The *Build Full-Featured Solutions* section of the *Pentaho InfoCenter* contains a large number of topics on working with the BA Suite. Here you can learn about defining data models, fine-tuning your reports and dashboards, how to create print-quality reports, or work with Big Data.
- Work with Big Data tells you how to use big data as a data source.