

# Oracle Fusion Cloud Sales Automation

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**How do I configure the Sales  
Dashboard in the Redwood User  
Experience?**



Oracle Fusion Cloud Sales Automation  
How do I configure the Sales Dashboard in the Redwood User Experience?

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# Get Help

There are a number of ways to learn more about your product and interact with Oracle and other users.

## Get Help in the Applications

Some application pages have help icons  to give you access to contextual help. If you don't see any help icons on your page, click your user image or name in the global header and select Show Help Icons. If the page has contextual help, help icons will appear.

## Get Training

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Thanks for helping us improve our user assistance!





# 1 Introduction and Setup Overview

## How to Use this Playbook

This playbook provides the steps sales administrators can use to configure sales dashboards for their organization. Administrators can configure any number of sales dashboards for different audiences with the content provided by Oracle and with the content they create.

1. Familiarize yourself with the types of information you can display and the prerequisites.
2. To configure your dashboards, follow the order of steps in the setup overview provided in the topic: *Overview of Sales Dashboard Configuration Steps*.
3. Review the *Using Sales for Redwood* guide to learn how salespeople use sales dashboards and the rest of the sales application.
4. The FAQ chapters in this guide provide common troubleshooting information.

### Note:

- After you create your own custom versions of sales dashboard features, the underlying code provided by Oracle in those features is no longer automatically updated. Any updates are your organization's responsibility.
- Oracle Visual Builder Studio (VB Studio) is a full-blown development environment. This playbook doesn't cover all of the steps required to set up or use VB Studio. For more information on using VB Studio, see the *Extending Oracle Cloud Applications with Visual Builder Studio* guide.

## What's a Sales Dashboard?

A sales dashboard is a centralized workspace that provides key sales metrics and insights in a single view. It aggregates data from sources such as opportunities, leads, accounts, tasks, and appointments, displaying this information through interactive visualizations, tables, and Key Performance Indicators (KPIs). Salespeople can use global search and filters to quickly locate records or focus on specific aspects of sales data (including pipeline, forecasts, or account activity), without switching between multiple systems.

In addition to reporting, the sales dashboard supports decision-making and workflow management. Features such as drill-down views, account summaries, and content containers allow users to move from high-level metrics to individual records efficiently. Salespeople can update records, follow up on opportunities, and assign tasks directly within the dashboard.

The dashboard also supports integration with external analytics tools, such as Tableau, PowerBI, Oracle Analytics, enabling access to advanced analytics and predictive insights within the same workspace.

Sales administrators, using the steps in this guide, can create any number of sales dashboards, each suited to a different role or individual. Personalization options let each salesperson create their own version of the dashboard with layouts, charts, and filters that best fit their needs, balancing consistency and flexibility.

For salespeople, the sales dashboard streamlines access to information and daily tasks, reducing time spent searching for data or generating reports. Managers can monitor team performance and identify risk areas at a glance, while

team members have clear visibility into their pipeline and activity. By combining metrics, workflow management, and analytics, the sales dashboard serves as both a reporting tool and a central hub for sales execution.

## Overview of Sales Dashboard Setup Steps

Use this overview to guide you through the initial setup of sales dashboards. You must create your own sales dashboards regardless of the types of edits you want to make. Even a small wording change requires you to create your own. You can't edit any of the sales dashboard content provided by Oracle directly.

Step	Description	More Details
1	If you're using Oracle Transactional Business Intelligence (OTBI), then you can take advantage of the predefined analyses provided by Oracle. All you need to do is to unarchive them in OTBI and they're ready for creating the charts and tables for your dashboards.	<i>Unarchive Analyses Provided by Oracle</i>
2	Enable 2 AI agents that salespeople can use to create charts from queries they enter in the Ask Oracle bar (Sales Analyzer) and generate insights from existing charts (Narrative Insights).	<i>Enable the Sales Dashboard AI Agents</i>
3	Create the shell of your sales dashboard content by duplicating one of the 2 dashboards provided by Oracle. In VB Studio, the dashboards are represented as 2 instances of the metrics container.  Who can view a sales dashboard is determined by the condition and the position of the metrics container instance in the hierarchy of cases.  To ensure you can view the copy during setup, clear the conditions to make the dashboard visible to everyone.	<ul style="list-style-type: none"><li>• <i>Overview of the Starter Sales Dashboard Designs Provided in the Application</i></li><li>• <i>Create the Shell of Your Dashboard by Duplicating One of the Dashboards Provided by Oracle</i></li></ul>
4	Create the charts, tables, and lists for display in sales dashboards. A number of tools are available. Which you'll want to use depends on the source of your data and the complexity of what you need.  For example, you can create simple charts using the Sales Analyzer AI agent by entering your query in the Ask Oracle bar in the dashboard.  For more complex charts and those originating from OTBI, you can use the Visualization Configuration tool (covered in this guide) or Express Reports (covered in the <i>How do I get started with Express Reports?</i> playbook.)  To create Key Performance Indicators (KPIs) for metric cards, you must use the Visualization Configuration tool.	<i>What You Can Display and How You Create It</i>
5	Within the dashboard shell metrics container, create the metric card for each tab you're adding.  The metric card is the top of the tab that's always visible.	<i>Create the Metric Card for the Top of the Tab</i>
6	Create the shell for your tab content by duplicating one of the contents containers provided by Oracle.	<i>Create the Contents Container and Link It to the Metric Card</i>

Step	Description	More Details
	Edit the content container condition to link it to the metric card that you created for the tab.	
7	<p>In each tab, you can have up to 5 sections displaying different sales information as tables, lists, and charts.</p> <p>Before you start adding content to the contents container for your tab, review how the layout style controls the display of the sections in the tab. The size of your section in the tab depends on the number of sections you add and the section's position on the tab.</p>	<a href="#">How Information Displays in a Sales Dashboard Tab as You Add Sections</a>
8	Create the sections that display the content in the tab. The parameters you enter are different for displaying a table, a list, a visualization, and for embedding a report from Oracle Fusion Data Intelligence.	<a href="#">Create the Sections with the Content You're Displaying</a>
9	<p>For adding tables and lists, a layout specifies which attributes appear as columns, in which order, and at which relative widths.</p> <p>The layouts, which are specific to each business object, already include key information, but you can add attributes or change their order and relative width.</p>	<a href="#">Layouts That Specify What Fields Display in Tables and Lists and How</a>  <a href="#">Specify the Columns in a Sales Dashboard Table and Their Widths</a>
10	Enable search for custom objects and fields from the Ask Oracle bar. Standard sales objects and fields are already enabled for search, but you can follow a similar procedure to change which fields are used in search and show in the search results.	<ul style="list-style-type: none"> <li><a href="#">Enable Custom Object Search in the Sales Dashboard</a></li> <li><a href="#">How can I change which fields display in Sales Dashboard search results for standard objects?</a></li> </ul>
11	Expose filters that salespeople can use to narrow down the scope of the sales information they view on the sales dashboard tabs. By applying filters, they can narrow down the information to a specified period of time or select specific team members.	<a href="#">Enable Filtering of Information Displayed in the Sales Dashboard</a>
12	<p>Specify which of the sales dashboard tabs you want to display by default when users open the sales dashboard.</p> <p>To specify which tab users see, you copy the ID of tab's metric card into the sales dashboard constant defaultMetricCard.</p>	<a href="#">Specify which Dashboard Tab Displays by Default</a>
13	<p>Salespeople can create records directly from the Ask Oracle bar in the sales dashboard. You can specify which Create actions are available and to whom in the Smart Actions work area in Application Composer.</p> <p>You can also create global actions to open published AI agents directly from the Ask Oracle bar.</p>	<a href="#">Global Actions in the Sales Dashboard</a>
14	Enable sales dashboard personalization. Once enabled, salespeople can create their own personal versions of the sales dashboard using the content you provide.	<a href="#">Enable Sales Dashboard Personalization</a>

# Overview of the Starter Sales Dashboard Designs Provided in the Application

Oracle provides you with 2 predefined sales dashboards that you can copy and configure.

## Sales Dashboard for the Sales Representative

The dashboard includes two tabs:

- **My To-Dos**

The My To-Dos tab includes these components:

- Tasks Due in the Next 30 Days table
- My Appointments list
- My Overdue Tasks list

- **Pipeline**

The Pipeline tab includes these components:

- My Open Opportunities table
- My Favorite Opportunities list
- My Open Leads list

## Sales Dashboard for the Sales Manager

The sales manager dashboard includes the same two tabs, but tailored to managers:

- **To-Dos**

The sales manager To-Dos tab includes these components all drawn from saved searches:

- Opportunities at Risk table
- My Appointments list
- My Team's Open Tasks list
- My Open Tasks list
- My Team's Overdue Tasks list

- **Pipeline**

The Pipeline page for the sales manager includes these components:

- My Team's Opportunities table
- My Favorite Opportunities list
- My Team's Open Leads list
- Lead Amounts by Team Member visualization
- My Team's Performance visualization

## Sales Dashboard VB Studio Component Basics

Here's a quick overview of how the Sales Dashboard is represented in Oracle Visual Builder Studio components.

### The Tabs on Your Sales Dashboard: Metric Cards and Contents Containers

Each tab in your dashboard is composed of two Oracle Visual Builder Studio fragments that hold the tab content:

- **Metric Card** (identified by callout 1 in the following screenshot)

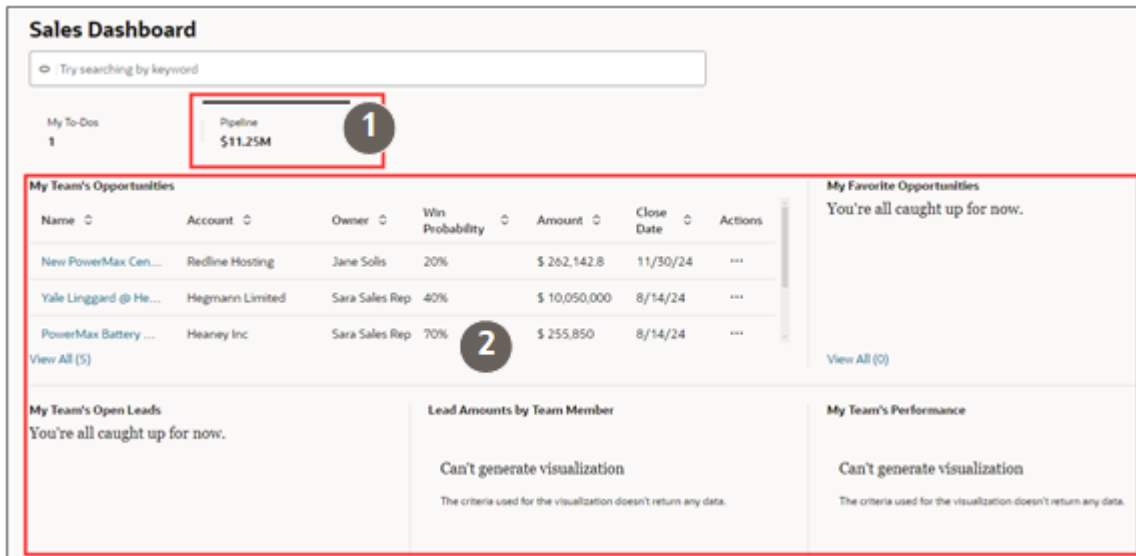
A metric card holds the information at the top of the tab, which is always visible on the dashboard even when the tab isn't selected. It contains the tab title, and other optional information. The predefined Pipeline metric card for sales managers, for example, calculates and displays the sum of opportunity revenue.

All of the metric cards in a sales dashboard are listed in a **Metrics Container**. The metrics container, discussed in the next section, forms the shell of your sales dashboard.

- **Contents Container** (callout 2)

The contents container holds the information in the tab. You can add up to 5 sections with tables, visualizations, and lists to each contents container.

The predefined pipeline contents container in the sales manager dashboard provide by Oracle, for example, displays a table of opportunities in the first section. Other sections display My Appointments, My Team's Open Tasks, My Open Tasks, and My Team's Overdue Tasks. All present information from different saved searches.

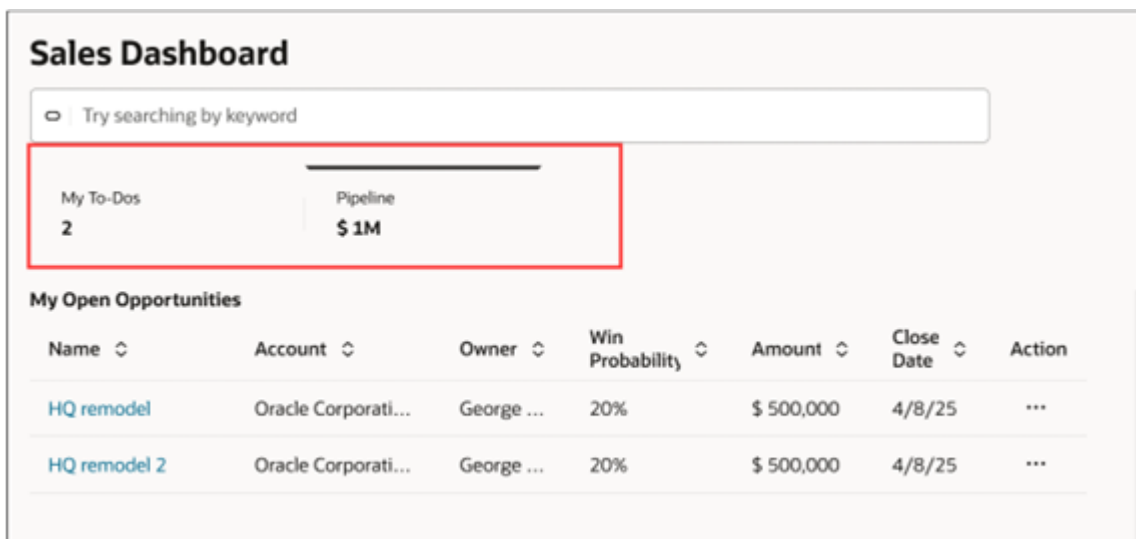


To the user, the metric card and the contents container form a single unit. However, the metric card and the contents container are separate entities in VB Studio. You must link them together in VB Studio to make them appear as a single tab.

## Metrics Container Instance: The Shell of Your Dashboard

In VB Studio, the contents of your sales dashboard is represented by a metrics container instance. Each metric container instance contains a list of the metric cards ( the tabs that users see).

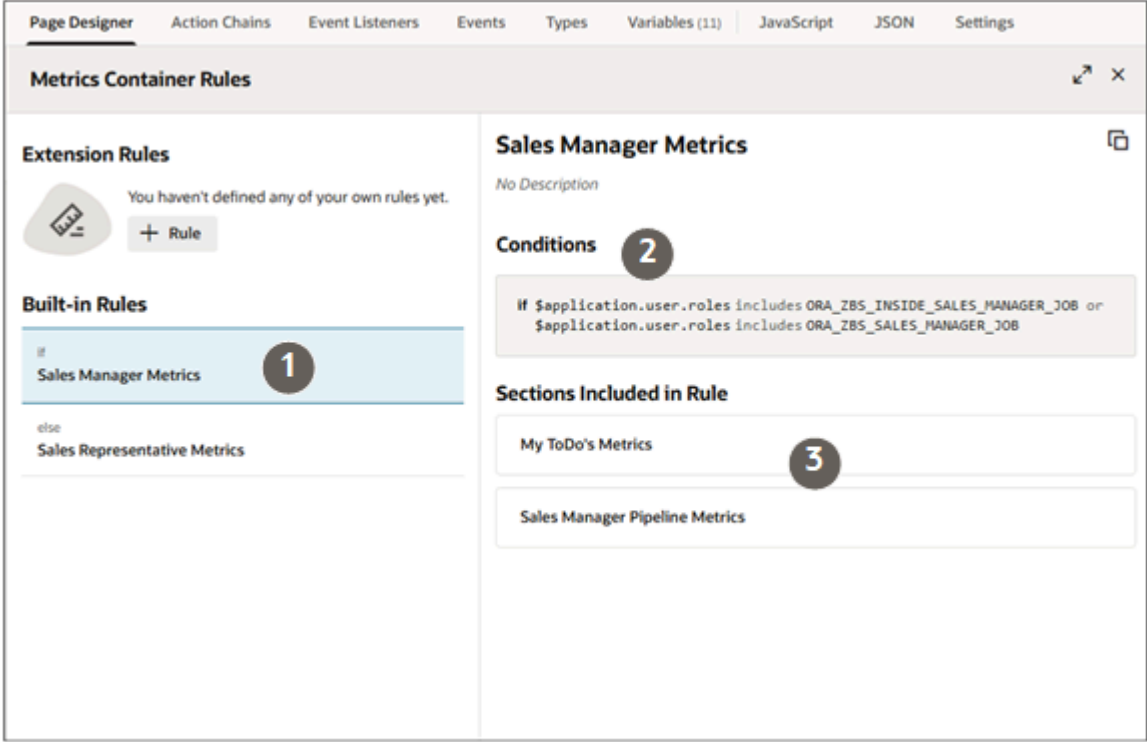
This screenshot of a sales dashboard includes 2 tabs. The metric container instance includes 2 metric cards, one for each tab.



You create a rule for each metric container instance that determines who gets to see the sales dashboard it represents.

Here's a screenshot of how the metric containers are represented in Oracle Visual Builder Studio. The screenshot shows 2 metric containers for the 2 sales dashboards provided by Oracle.

Callout Number	Description
1	The metrics container for the predefined sales manager dashboard.  The metrics containers Oracle provides are listed under the <b>Built-in Rules</b> heading.  The metrics containers you create are listed under Extension Rules.
2	<b>Conditions</b> specify who sees this dashboard.  The predefined sales manager dashboard can be viewed only by the job roles listed. All other users see the sales representative dashboard because its condition is set to "Always Show".
3	Metric cards (the tabs in the dashboard) are listed under the <b>Sections Included in Rule</b> heading. The order of the metric cards determines the order of the tabs.



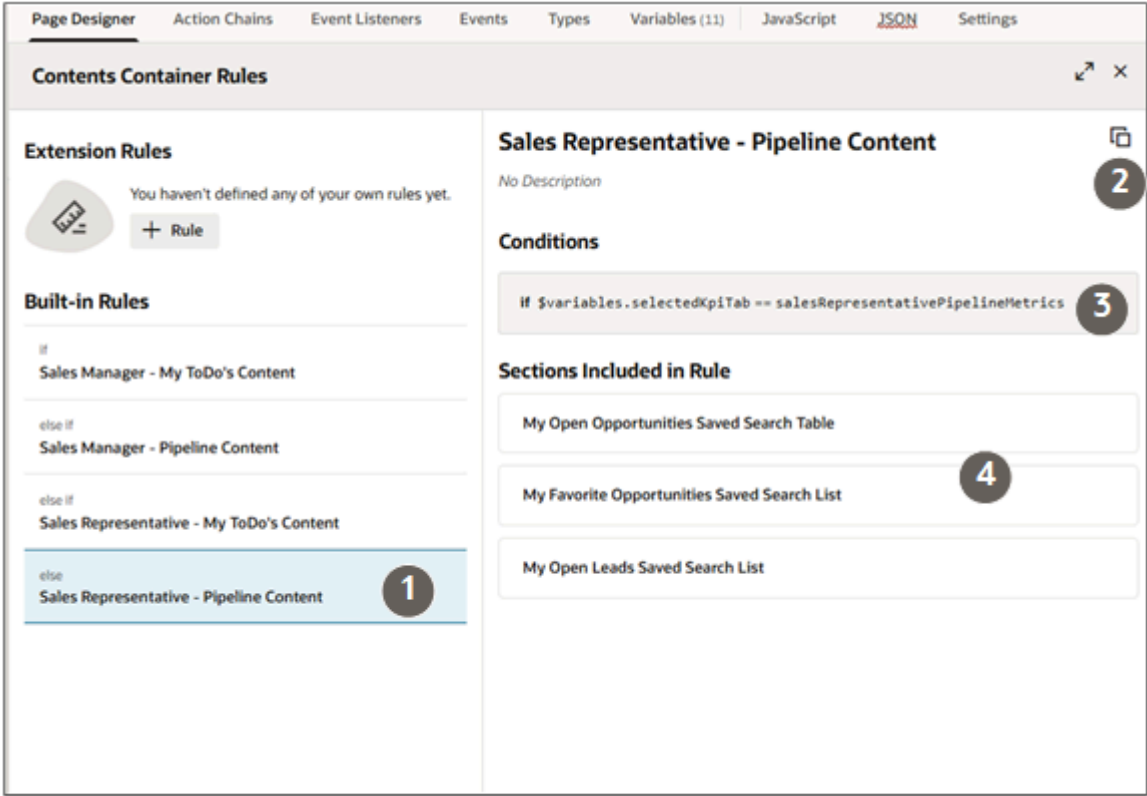
## Contents Containers: Your Tab Content

The Contents Container specifies the contents of each tab in the sales dashboard. The contents container condition references the metric card in the metrics container.

### Contents Container Anatomy

Callout	Description
1	Each rule is a contents container instance. For example, the <b>Sales Representative- Pipeline Content</b> contents container provided by Oracle specifies which pipeline visualizations sales representatives see in the Pipeline tab.

Callout	Description
	Because Oracle provides separate sales dashboards for sales representatives and sales managers, there's a separate pipeline contents container for sales managers listed under the Built-In Rules heading.
2	Click the <b>Duplicate</b> icon to duplicate the content provided by Oracle so you can edit it.
3	The conditions in each contents container reference the metric card which forms the top of the tab in the sales dashboard.
4	The items listed under the <b>Sections Included in Rule</b> heading specify what users see in the tab and in which order.



## What You Can Display and How You Create It

You can display a variety of interactive visual elements on your dashboard. These include:

- *Key Performance Indicators (KPIs)*
- *Charts*
- *Tables*
- *Lists*
- *Embedded Oracle Fusion Data Intelligence Components*



## Which Tools You Can Use for What

Here's a table summarizing which tools and data sources you can use to create the different display elements.

Tool and Data Source	KPI (Metric Card)	Tables	Lists	Charts
Visualization Configuration (Adaptive Search)	Yes	Yes	Yes	Yes
Visualization Configuration (OTBI)	Yes	Yes	No	Yes
Express Reports (OTBI)	No	No	No	Yes
Sales Analyzer AI Agent (Adaptive Search)	No	No	No	Yes

## About the Tools

- **Visualization Configuration**

The Visualization Configuration tool lets you create content for your dashboards from data in both Adaptive Search and from Oracle Transactional Business Intelligence (OTBI):

- **Visualizations from Adaptive Search saved searches**

You can build visualizations from the default saved search for the object and add filters in the tool or create visualizations from individual saved searches.

A saved search is a reusable query created in Adaptive Search that retrieves data directly from sales objects such as opportunities, accounts, leads, and tasks. Saved searches are flexible and can be used across multiple dashboard components, including metric cards, tables, lists, and charts. They're ideal for sales users who need quick access to operational data (for example, "My Open Opportunities" or "Overdue Tasks") and require the ability to drill down into record-level details.

When to use saved searches:

- For real-time operational sales data
- When actionable records are needed in tables or lists
- When the same data set will be used in multiple dashboard components

- **Visualizations from OTBI analyses**

An OTBI analysis is a report created with Oracle's transactional business intelligence layer. It enables users to combine data from multiple subject areas, apply advanced filters, and create custom aggregations. OTBI analyses can populate metric cards, tables, and charts, but can't directly generate

lists. They're ideal for complex reporting, trend analysis, or when KPIs require multidimensional data, such as revenue by product and region.

When to use OTBI analyses:

- To gain analytical insights across multiple objects or subject areas
- To build KPIs needing complex calculations or aggregations
- To support visualizations with advanced analytical queries

You can open the Visualization Configuration tool from the home page or directly from a URL. (<http://<server-address>/fscmUI/redwood/cx-analytics/application/container/dvconfig/>).

- **Express Reports**

The Express Reports tool makes it easy to quickly create reports from OTBI analyses. No tables, lists, or metric cards are supported. Each report consists of a chart and a table. The sales dashboard only displays the visualization part of report created in Express Reports. The table isn't displayed.

The tool is targeted at salespeople without advanced OTBI report building skills. It's ideal for situations where users need quick visual insights without help from administrators or use of advanced reporting tools.

When to use express reports:

- For quick visual analysis
- When a salesperson needs a chart without building a report in OTBI or configuring saved searches.

You can open the Express Reports tool from the home page or directly from a URL. (<http://<server-address>/fscmUI/redwood/cx-analytics/application/container/report/reports>).

To learn more about Express Reports, see the playbook *How do I get started with Express Reports?*.

- **Sales Analyzer AI agent**

You can create simple charts by entering a query in the sales dashboard Ask Oracle bar. The Sales Analyzer agent does the rest.

The Sales Analyzer agent can create charts from attributes enabled for Adaptive Search and your chart can group data by 1 attribute. For example, you can have the Sales Analyzer create a bar chart showing the number of opportunities for each of your team members by sales stage, but you can't generate a stacked chart that shows the number of opportunities and revenue by sales stage.

You can save the charts generated by the agent in the library of dashboard content and add it to the dashboard.

## Key Performance Indicators (KPIs)

In the metric cards that form the top of each tab, you can display KPIs that highlight critical values such as total pipeline, closed revenue, or overdue tasks. They provide an at-a-glance view of performance against goals and help salespeople prioritize actions quickly.

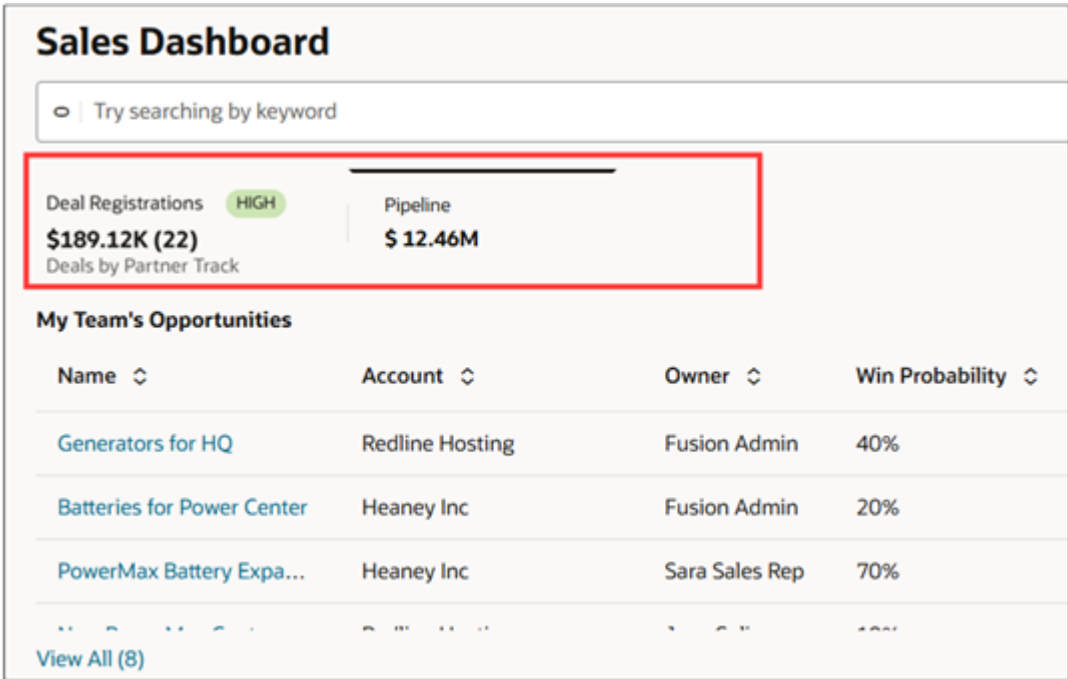


What Tools to Use to Create KPIs

Use the Visualization Configuration tool to configure KPIs can be created from Adaptive Search saved searches or from OTBI analyses.

KPI Anatomy

Here's a screenshot of a sample dashboard with 2 tabs. The screenshot highlights the part the tabs defined by metric cards.



Metric cards can have up to 5 different elements show in the screenshot of a sample partner deal registrations metric card:

Callout	Field	Description
1	Name	The title of your dashboard tab.

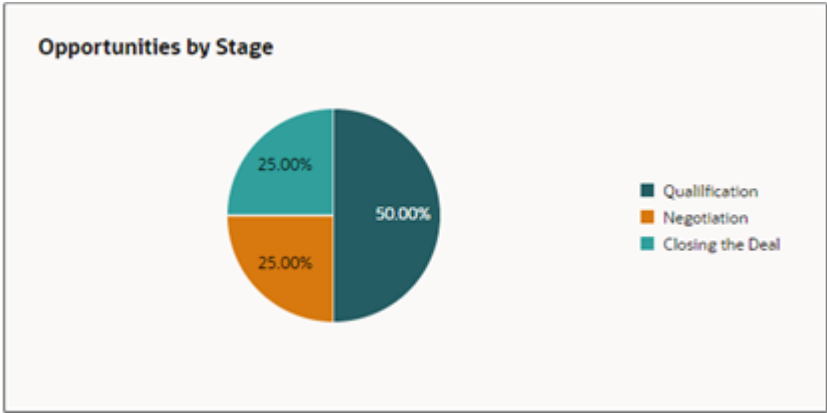
Callout	Field	Description
2	Badge	Displays badges you specify for different value ranges.
3	Primary Metric (Secondary Metric)	You can display up to 2 metrics. In this example, it's the sum of the Deal Size (Primary Metric) and the count (Secondary Metric).
4	Description	One-line description that you enter or that's filled in dynamically.



## Charts

Interactive charts help salespeople identify patterns, track progress, and communicate performance clearly. Using charts, salespeople can visualize sales data trends and distributions, such as pipeline by stage, revenue by region, or lead conversion rates, for example. And they can drill down into individual records.

You can choose any of the available chart types including bar, pie, donut, funnel, scatter, and combo charts.



### AI Insights into the Information in a Chart

From any chart a salesperson can use the Narrative Insights AI agent to generate description of the key information underlying the chart and they ask follow-up questions.

For details see the topic [AI Agents in the Sales Dashboard](#).

## What Tools to Use to Create Charts

There are several tools available for sales administrators to create charts for the sales dashboard. Which you should use depends on the complexity of your use case:

- To create simple charts, you can just enter a query in the sales dashboard Ask Oracle bar. The Sales Analyzer agent does the rest.

The Sales Analyzer agent can create charts from attributes enabled for Adaptive Search and your chart can group data by 1 attribute. For example, you can have the Sales Analyzer create a bar chart showing the number of opportunities for each of your team members by sales stage, but you can't generate a stacked chart that shows the number of opportunities and revenue by sales stage.

- To create more complex charts from Oracle Transactional Business Intelligence (OTBI) analyses, you can use the Express Reports tool.

Express report charts can group data by several factors. For example, you can group revenue by product and state. Take advantage of prebuilt visualizations to display the trends and key performance indicators

How to configure and use Express Reports is covered in a separate playbook [How do I get started with Express Reports?](#).

- Another tool for creating complex charts from both Adaptive Search and OTBI analyses, is the Visualization Configuration tool. With this tool, you can create charts for both sales dashboards and the CX Sales Mobile app.

## Tables

Tables in the sales dashboard present structured sales information, such as opportunities, accounts, or tasks in rows and columns, making it easy to scan, compare, and drill down into record-level details. Users can take smart actions directly from tables, to update records and follow up on opportunities, for example.

Hardware Opportunities					
Name	Account	Owner	Amount	Close Date	Actions
Generators for Data Center	Pinnacle Technologies	Sara Sales Rep	\$ 124,000	8/24/24	...
Generators for HQ	Redline Hosting	Fusion Admin	\$ 310,000	8/24/24	...
Redline Hosting - Hybrid...	Redline Hosting	Sara Sales Rep	\$ 185,000	8/14/24	...
View All (4)					

## What Tools to Use to Create Tables

Use the Visualization Configuration tool to create tables from Adaptive Search saved searches or from OTBI analyses.

## Lists

Lists provide a simplified view information, such as “My Open Leads” and “Upcoming Appointments.” They're compact and easy to navigate, helping sales users stay on top of daily tasks and activities. Like tables, lists support smart actions directly from the dashboard, allowing quick updates and next steps in context.



## What Tools to Use to Create Lists

Use the Visualization Configuration Tool to create lists from Adaptive Search saved searches.

## Embedded Oracle Fusion Data Intelligence Components

You can also embed reports from Oracle Fusion Data Intelligence. Fusion Data Intelligence is built on top of Oracle Analytics Cloud.



## 2 Before You Begin

### Before You Configure the Sales Dashboard

Before your team can start creating application extensions, you must first set up Oracle Visual Builder Studio. You only need to set up VB Studio once for every implementation.

Complete VB Studio implementation steps are documented in the [Oracle Cloud Administering Visual Builder Studio](#) guide. See the topic: [How Do I Set Up VB Studio?](#)

### Required: Set the Extension ID for Sales

When using VB Studio to extend Sales pages, your extension must use the extension ID: `site_cxsales_Extension`. You set this extension ID when you first set up your project.

A project collects all the people, tools, and processes you need to complete a discrete software effort in VB Studio. Oracle best practice dictates that you use a single project for all the extension work you do within the Oracle Cloud Application environment family.

You can create this project using one of two methods discussed in the following video: [Create the Visual Builder Studio Project](#).

Each method requires a different way to set the extension ID:

- Create a project from a Sales page by clicking the **Edit Page in Visual Builder Studio** link in the **Settings and Actions** menu. This is the recommended method to create a project because it automates the creation of key VB Studio components. See the topic: [Create a Simple Extension](#).

If you choose this method, then you'll update your project's extension ID to `site_cxsales_Extension` by editing the extension-level settings. See the topic: [Establish Extension-Level Settings](#).

- Create a project from the Organization home page. See the topic: [Manually Create a Project for Extensions](#).

If you choose this method, then you'll enter the required extension ID when you create your own workspace. See the topic: [Create an Extension](#).

**Note:** Be sure to publish your extension so that the updated extension ID becomes the default going forward for everyone else working on the extension.

### Tip: Create Additional Workspaces

At some point in your extension lifecycle, you might need to create a new workspace in an existing project. You may want to create a new workspace from the main branch if you forget what changes a particular workspace contains, for example. Follow the instructions in the topic: [Clone an Existing Repository](#).

You can also view the following video: [Create a Workspace](#).

# Enable Opportunity Pipeline Attributes in Adaptive Search

For the Sales Dashboard to display values in the Opportunity Pipeline Amount and Win Probability, a few fields must be enabled in Adaptive Search. After you enable the fields, you must run the Partial Publish scheduled process to activate your changes.

Enable the following fields in the **Setup > Advanced** tab of the **Configure Adaptive Search** setup task:

- Primary Revenue

Navigation: **Opportunity > Primary Revenue > Primary Revenue**

- Win Probability

Navigation **Opportunity > Primary Revenue > Opportunity Revenue > Primary Revenue > Win Probability**

- Amount

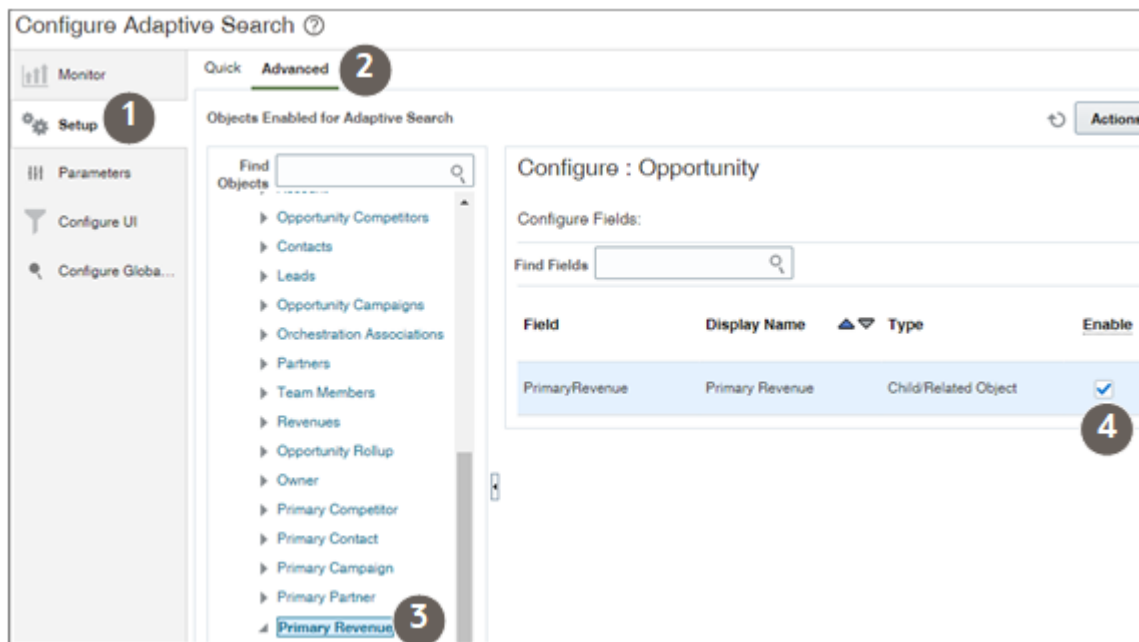
Navigation: **Opportunity > Primary Revenue > Opportunity Revenue > Amount**

Here's how to enable the fields:

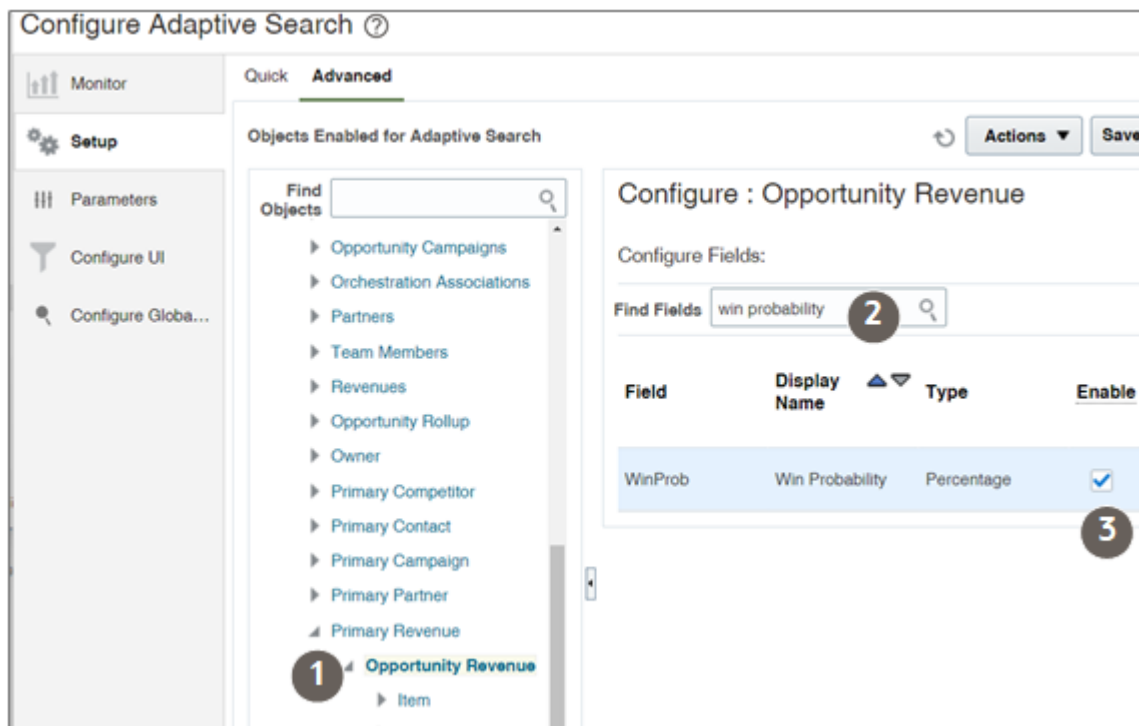
1. In the Setup and Maintenance work area, open the **Configure Adaptive Search** task:
  - Offering: Sales
  - Functional Area: Sales Foundation
  - Show: All Tasks
  - Task: Configure Adaptive Search
2. Click **Setup > Advanced**.
3. On the Advanced tab, click **Primary Revenue**.



4. In the Configure: Primary Revenue pane, select the **Enable** checkbox for the **Primary Revenue** field.



5. Click **Primary Revenue > Opportunity Revenue**.



6. In the Configure: Opportunity Revenue pane, use the **Find Fields** field to search and enable the **Amount** field and the **Win Probability** field.
7. Click **Save**.

8. Publish the new attributes by running the Partial Publish process:
  - a. Click **Actions > Partial Publish**.
  - b. Select **Opportunity**.
  - c. Click **Proceed with Partial Publish**.
  - d. In the Partial Publish window, click **Publish**.

## Unarchive Analyses Provided by Oracle

Oracle provides you with sample Oracle Transactional Business Intelligence (OTBI) analyses for accounts, activities, forecasts, leads, opportunities, orchestrations, and quotes. You can edit them to suit your needs. Here's how to unarchive them into your OTBI library.

1. Open Reports and Analytics (**Navigator > Tools > Reports and Analytics**).
2. Click **Browse Catalog**.
3. Open the **Shared Folder Custom** folder.
4. Locate and select **Oracle Sales Dashboard Content** folder.
5. In the Tasks pane, click **Unarchive**.

## 3 AI Agents

### AI Agents in the Sales Dashboard

Salespeople can use 2 AI agents in the sales dashboard to create visualizations, to gain insights on the information presented in charts, and to ask follow-up questions about the sales information important to them.

- **Sales Analyzer:** transforms user queries into visualizations.
  - a. Salespeople enter their query in the sales dashboard **Ask Oracle** bar and select **Visualize**.
  - b. The Sales Analyzer generates a chart from the query and displays it in a drawer.
  - c. Salespeople can adjust basic visualization settings.
  - d. Sales administrators can save the chart to the catalog for future reference or sharing.

Things to know:

- For salespeople and sales managers, the charts are temporary. They can't be saved unless you have sales administrator privileges.
- Sales administrators save the charts in the library and add them to dashboards.
- Attributes that salespeople use for grouping chart information must be enabled for **Group by** during Adaptive Search setup.
- You're limited to grouping the data by one attribute. For example, you can have the Sales Analyzer create a bar chart showing the number of opportunities for each of your team members by sales stage, but you can't generate a stacked chart that shows the number of opportunities and revenue by sales stage.

For more information on how salespeople use the agent, see the topic [Create a Chart from a Prompt](#).

- **Narrative Insights:** generates text insights on sales dashboard visualizations and allows salespeople to ask follow-up questions about the underlying information:
  - a. Salespeople click **Action > Insights** next to a graphic displayed in the sales dashboard.
  - b. The agent displays the insights in a drawer.
  - c. Salespeople can follow up with questions in the drawer.

The Narrative Insights agent is supervisor agent that orchestrates the generation of narrative insights by managing the flow between data retrieval and analytical processing. It classifies user queries, decides whether visualization data is sufficient, and delegates tasks to the appropriate agents to produce fact-based, context-aware insights.

For more information on how salespeople use the agent, see the topic [Generate Insights from Sales Dashboard Graphs](#) in the Using Sales for Redwood guide.

## Enable the Sales Dashboard AI Agents

Enabling the Sales Analyzer and Narrative Insights agents in the Sales Dashboard involves 2 steps:

1. You copy the agents Oracle provides in AI Agent Studio.
2. You open Oracle Visual Builder Studio and enter the agent team codes of the copies in the **enableAgents** constant.

### Copy Both Agents Provided by Oracle in AI Agent Studio

Copy both the Sales Analyzer and Narrative Insights agents provided by Oracle in AI Agent Studio and make a note of the **Agent Team Code** for each.

1. Open AI Agent Studio (**Navigator > Tools > AI Agent Studio**).
2. Search for the agent by name (**Sales Analyzer** or **Narrative Insights**).
3. Click **Copy Template** on the agent.
4. In the Copy Template dialog, enter a suffix that will be added to the agent name. For example: **v1**.

Your new agent opens for editing.

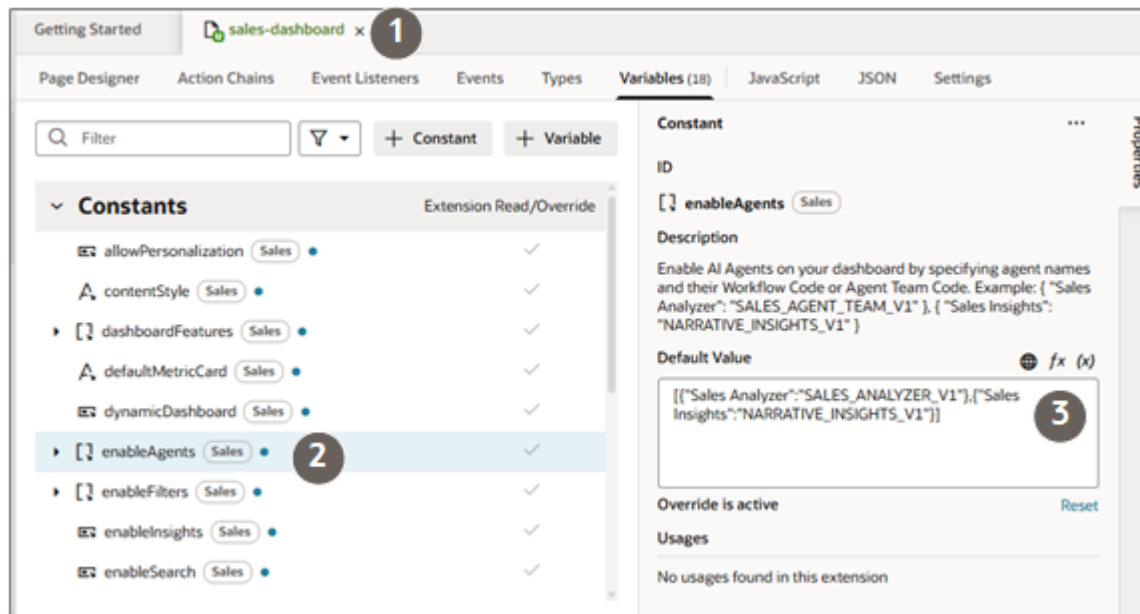
5. In the agent edit page, click **Publish**.
6. On the navigation bar at the bottom of the page, click **Agent Teams**.
7. On the Agent Teams page, search for the agent by name.
8. Make a note of the Agent Team Code for each agent. (for example: SALES\_ANALYZER\_V1 and NARRATIVE\_INSIGHTS\_V1). You need the codes to reference the agents in VB Studio.

### Enter the Agent Team Codes in VB Studio

Enable the agents using VB Studio:

1. Navigate to the Sales Dashboard and open VB Studio. (**Settings and Actions > Edit Page in Visual Builder Studio**).
2. On the **sales-dashboard** tab, click the **Variables** subtab.
3. Under the **Constants** heading, click the **enableAgents** constant.

4. In the **Properties** tab, **Default Value** box, enter the following code, replacing the agent team codes in this example with your own: `[{"Sales Analyzer":"SALES_ANALYZER_V1"}, {"Sales Insights":"NARRATIVE_INSIGHTS_V1"}]`



5. Test and publish.



# 4 Create Content Using the Visualization Configuration Tool

## Visualization Configuration Tool Overview

The Visualization Configuration tool enables sales administrators to create and manage the visualizations displayed on sales dashboards and the CX Sales Mobile app. Using this tool, administrators can convert data from Adaptive Search saved searches and Oracle Transactional Business Intelligence (OTBI) analyses into interactive visual components.

With the Visualization Configuration tool, administrators can design dashboards that not only present sales data clearly but also allow users to act on the data using drill-downs, filters, and smart actions.

A wide range of visualization types is available, including:

- Tabular view (tables)
- List view
- Bar chart
- Pie chart
- Line chart
- Donut chart
- Combo chart
- Key Performance Indicator (KPI) cards
- Meter gauges
- Bubble chart
- Funnel chart
- Area chart
- Pivot chart

Each visualization type serves different purposes, such as comparing data across categories, visualizing trends over time, or highlighting key performance metrics.

After creation, visualizations are stored in a central library and can be added to sales dashboards as needed. Sales administrators can access the Visualization Configuration tool directly from Application Composer, without the need to activate a sandbox.

## Table and Chart Visualizations at Runtime

Here's how tables and charts created as visualizations display to users.

## Table Visualizations

A table visualization displays records sorted by how often they've been accessed. The most frequently accessed appear first. You can enable drill-downs to individual records and you can add the Actions list. With the smart actions, salespeople can create tasks, schedule appointments, send emails, and make calls directly from the table, for example.

Name	Account	Owner	Win Probability	Amount	Actions
Generators for HQ	Redline Hosting	Fusion Admin	40%	\$ 310,000	...
Batteries for Power...	Heaney Inc	Fusion Admin	20%	\$ 19,250	...
New PowerMax Ce...	Redline Hosting	Jane Solis	10%	\$ 262,142.8	...

View All (8)

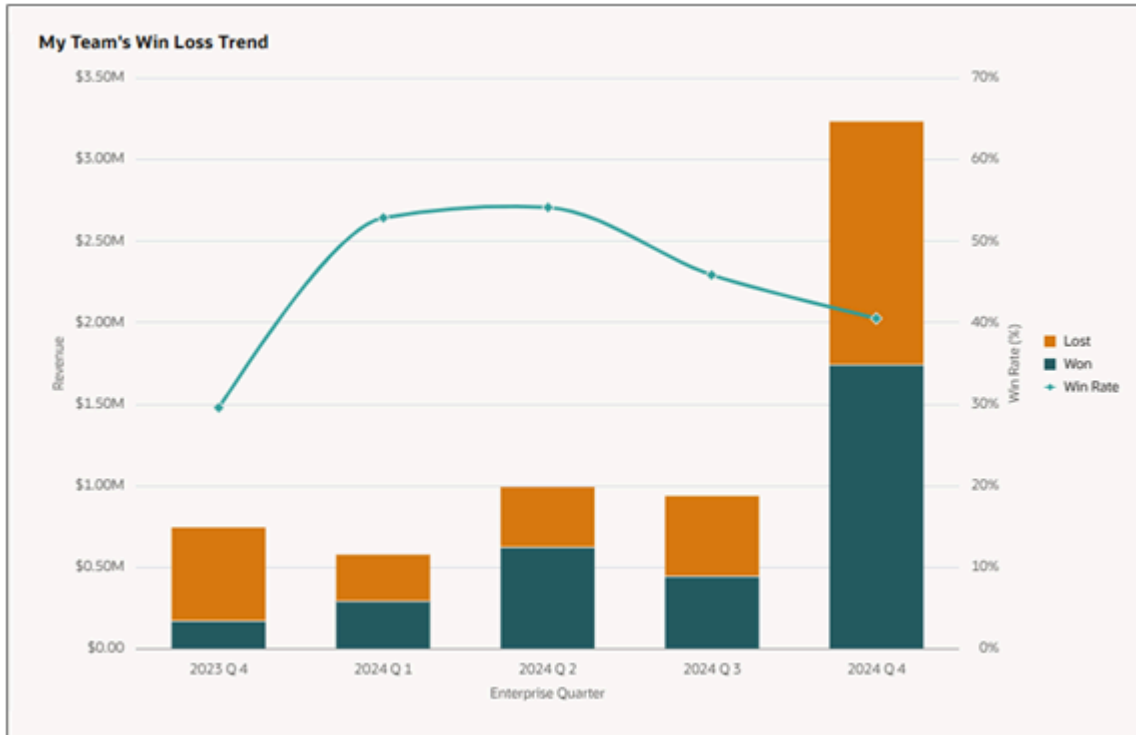
Tables include a **View All** link (callout 2 in the screenshot) that opens a list page showing all records matching the visualization selection criteria.

Win ...	Name	Account	Amount	Close Date
40%	Alternators	Bogan, Ratke and Doyle	\$ 300,000	8/1/25
10%	New PowerMax Center	Redline Hosting	\$ 262,142.8	3/27/25
70%	Hybrid Generator - Redline Hosting	Redline Hosting	\$ 1,080,000	3/19/25
30%	Redline Hosting - Hybrid Generators ...	Redline Hosting	\$ 185,000	3/19/25
40%	Yale Linggard @ Hegmann Limited	Hegmann Limited	\$ 10,050,000	2/27/25

## Chart Visualizations

Salespeople can click a section of a chart to view the underlying records.

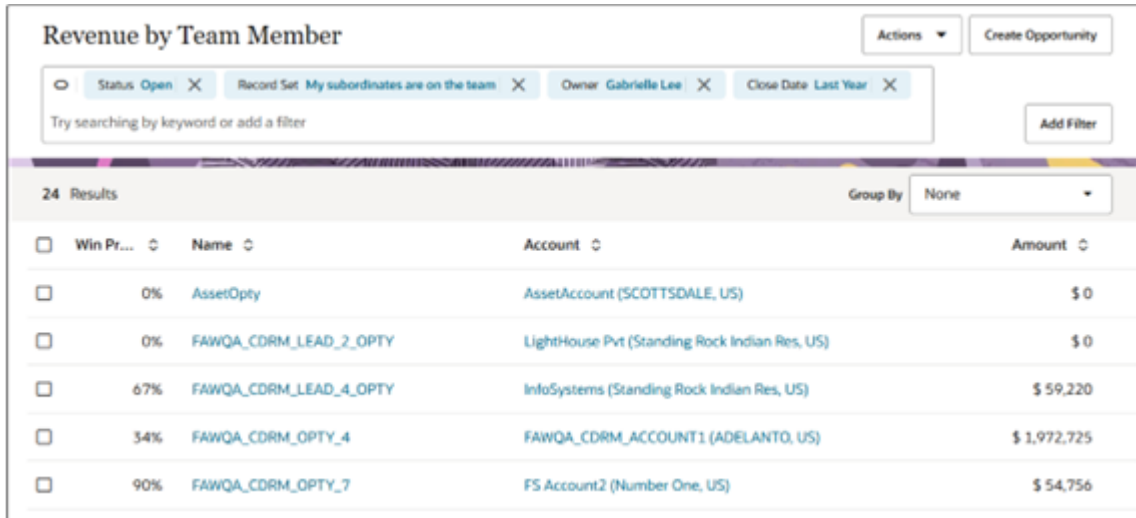




Drill-downs in visualizations from OTBI analyses open on a page showing both the visualization and the list. Drill-down from Adaptive Search visualizations open up a list page for that object.



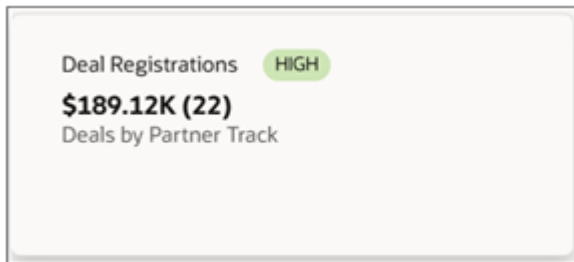
Adaptive Search saved search visualizations open a list page.



Win Pr...	Name	Account	Amount
0%	AssetOpty	AssetAccount (SCOTTSDALE, US)	\$ 0
0%	FAWQA_CDRM_LEAD_2_OPTY	LightHouse Pvt (Standing Rock Indian Res, US)	\$ 0
67%	FAWQA_CDRM_LEAD_4_OPTY	InfoSystems (Standing Rock Indian Res, US)	\$ 59,220
34%	FAWQA_CDRM_OPTY_4	FAWQA_CDRM_ACCOUNT1 (ADELANTO, US)	\$ 1,972,725
90%	FAWQA_CDRM_OPTY_7	FS Account2 (Number One, US)	\$ 54,756

## Metric Cards

You can also use the Visualization Configuration tool to speed up the creation of the sales information that appears at the top of each tab in the sales dashboard. Metric Card visualizations provide a UI where you can specify all of the information you can display, including the title, KPI, and badges.



Because Metric Cards are used for configuring the sales dashboard tabs, their creation is covered in the Configure the Redwood Sales Dashboard chapter topic [Create the Metric Card for the Top of the Tab](#).

## Create Visualizations

Using the Visualization Configuration tool, you can create visualizations from two types of sources of sales data: Adaptive Search saved searches and Oracle Transactional Business Intelligence (OTBI) analyses. Each type requires slightly different steps to create so the steps are covered in different sections:

- For Adaptive Search saved searches, see the section [Create Visualizations from Saved Searches](#).
- For OTBI analyses, see the section [Create Visualizations from OTBI Analyses](#).

## Prerequisites

To create visualizations using the Visualization Configuration tool, you must have the privilege ZCA\_VIEW\_DATA\_VISUALIZATION\_CONFIGURATION\_PRIV.

Setup users with one of the following job roles provided by Oracle already have this privilege:

- `ORA_ZCA_CUSTOMER_RELATIONSHIP_MANAGEMENT_APPLICATION_ADMINISTRATOR_JOB` (Customer Relationship Management Administrator)
- `ORA_ZBS_SALES_ADMINISTRATOR_JOB` (Sales Administrator)

## Create Visualizations from Saved Searches

There are two alternative ways to create visualizations from saved searches using the Visualization Configuration tool:

- Entering filters directly in the tool, so you don't have to maintain a separate saved search for the visualization.

You select the default saved search as the data source and enter the filters you need for the table or chart directly in the Create Visualization page.

Entering filters in the visualization configuration makes it unnecessary to create and manage an individual saved search for each visualization.

To learn how, see the topics:

- [Create a Chart from the Default Saved Search](#)
- [Create a Table from the Default Saved Search](#)

- Select a specific saved search and inherit the filters and the columns displayed in the list page from that saved search.

To learn how, see the topics:

- [Create a Chart from a Specific Saved Search](#)
- [Create a Table from a Specific Saved Search](#)

## Create a Chart from the Default Saved Search

You can save time when you select **Default** as your saved search in the Create Configuration page. That's because selecting the default saved search as your source, makes it possible for you to change the filters directly in the Visualization Configuration tool. Entering filters directly, eliminates the need for you to create and manage a specific saved search for each visualization.

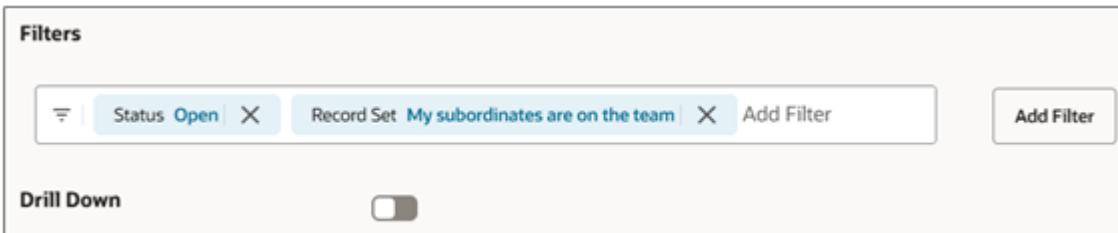
The visualization you create is based on the default saved search for the object that's shared with the sales organization as a whole.

1. Navigate to **Configuration > Application Composer**.
2. Click **Visualization Configuration** in the right-hand pane.
3. In the Visualization Configurations page, click **Add**.
4. From the Create Configuration page, **Source Type** field, select the **Adaptive Search**.
5. Select the object.
6. Leave the **Saved Search** field set to **Default**. This selection specifies to use the default saved search for the object.
7. In the **Visualization Type** field, choose the visualization type, such as a bar chart, pie chart, donut chart, combo chart and so on.

8. In the **Details** section, enter the dimensions and other preferences for the visualization. Which attributes are available depends on the type of visualization you're creating. The values you can enter in the attributes depend on your Adaptive Search setup.

**Note:** Only attributes that have been enabled for Group By in Adaptive Search are available for selection as your chart axes. For details, see the topic [How do I enable the filtering of visualizations by team members?](#)

9. The **Filter** bar initially displays the filters in the default saved search. You can update or delete these filters and your own filters.



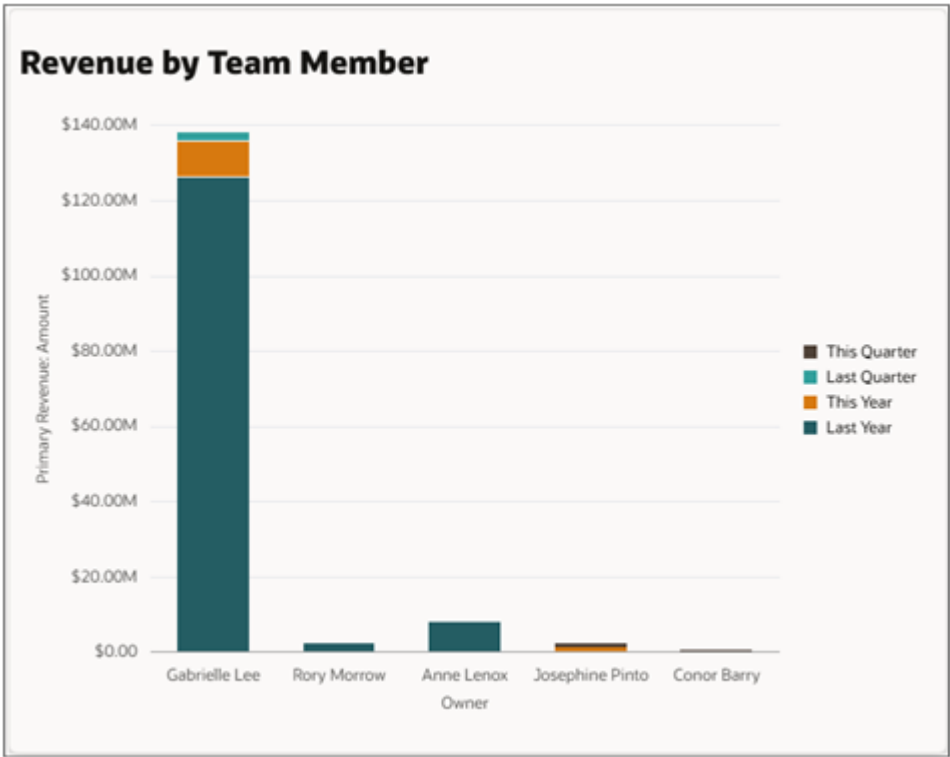
10. Enable salespeople to drill down to the list page by turning on **Drill Down**.

When salespeople click one of the sections of the chart, the application displays a drill down page with a list of the records in that section. The columns are provided by the default saved search.

11. The Settings section lets you change the orientation of chart, stacking, and the inclusion of a grand total. You can also specify the data label position, along with Grand Total for both Adaptive Search and OTBI based visualizations
12. Set the **Status** field to **Active**.
13. Click **Create** to save the configuration.
14. Note the number of the visualization configuration on the list page. You'll use the number to include the visualization in the Sales Dashboard.

## Entries for a Sample Revenue Bar Chart Visualization Created from Adaptive Search

Here are the entries to create a sample bar chart visualization from an Adaptive Search. The chart shows the revenue by opportunity team member for the last year, this year, last quarter, and this quarter.



Clicking on last year's section for one of the team members opens a list page with the team member and last year's filters added. The list page includes the title of the visualization.

Revenue by Team Member			
Actions		Create Opportunity	
Status	Open	Record Set	My subordinates are on the team
Owner	Gabrielle Lee	Close Date	Last Year
Try searching by keyword or add a filter			
Add Filter			
24 Results			
Group By		None	
Win Pr...	Name	Account	Amount
0%	AssetOpty	AssetAccount (SCOTTSDALE, US)	\$ 0
0%	FAWQA_CDRM_LEAD_2_OPTY	LightHouse Pvt (Standing Rock Indian Res, US)	\$ 0
67%	FAWQA_CDRM_LEAD_4_OPTY	InfoSystems (Standing Rock Indian Res, US)	\$ 59,220
34%	FAWQA_CDRM_OPTY_4	FAWQA_CDRM_ACCOUNT1 (ADELANTO, US)	\$ 1,972,725
90%	FAWQA_CDRM_OPTY_7	FS Account2 (Number One, US)	\$ 54,756

Here are sample entries to create the chart:

Field Name	Entry	Description
Source Type	Adaptive Search	Visualization source.
Object	Opportunities	Business object

Field Name	Entry	Description
Saved Search	Default	The visualization uses the default saved search as the source of your information and lets you change the filters.
Name	Revenue by Team Member	The title of your visualization and the drill down page.
Visualization Type	Bar Chart	Different visualizations require different attributes.
X Axis	Owner	Displays owner names along the x-axis
Categorized By	Close Date	The quarter in which the close date appears. Because Stacked Layout is selected, the quarters appear as sections of each owner's bar.
Value	Primary Revenue Amount	Opportunity revenue
Format	Currency	Supplies currency symbol. Click the Preferences button to see this option.
Unit	Round Even	Rounding.
Aggregation	Sum	Type of calculation.
Orientation	Vertical	Bar chart orientation.
Stacked Layout	On	Displays the different quarters as sections on a bar. If off, you get separate bars for each time period for each team member.
Filters	Status: Open, Record Set: My subordinates are on the team	Filters come from the default saved search, but you can change them.
Drill Down	On	Enables drill-down.

## Create a Table from the Default Saved Search

Here's how to create a table when you select Default as your saved search. Making this selection makes it possible for you to add the filters in the visualization itself.

1. Navigate to **Configuration > Application Composer**.
2. Click **Visualization Configuration** in the right-hand pane.
3. In the Visualization Configurations page, click **Add**.
4. From the Create Configuration page, **Source Type** field, select the **Adaptive Search**.
5. Select the object.
6. Leave the **Saved Search** field set to **Default**.
7. In the **Visualization Type** field, select **Tabular Chart**.

8. In the **Columns** section, use the **Add Column** list to add the columns you'd like to display in the table. The table builds as you add columns.

The screenshot shows the 'Visualization Type' set to 'Tabular Chart'. Below this is the 'Columns' section, which includes an 'Add Column' dropdown menu. Three columns are currently listed: 'Name', 'Account: Name', and 'Primary Revenue: Expected Revenue'. Each column has a remove icon (X) to its right. At the bottom of the 'Columns' section is an 'Actions' toggle switch, which is currently turned on.

9. Turn on **Actions** to display the **Actions** list (three dot icon) on each record in the table.
10. Click the column name link to format the columns in the table and to specify the drill down destination:
  - a. In the Preferences drawer **Format** field, add any required format for the column. For example, to add the currency symbol, select **Currency**.
  - b. Click **Drill Down** to enable drill down from the column.
  - c. Select the page you want to open. For example, to open the opportunity details page, select **opportunities**.

The screenshot shows the 'Preferences' drawer for the 'Name' column. It has a close button (X) in the top right corner. The 'Columns' field is set to 'Name'. The 'Format' field is set to 'Text'. The 'Drill Down' toggle switch is turned on. The 'Page' dropdown menu is set to 'opportunities'. A 'Back' button is located at the bottom right of the drawer.

- d. Click **Back**.

11. In the **Filter** field, specify the filters for the table. The field initially displays the filters in the default saved search, but you can update, delete, and add filters.

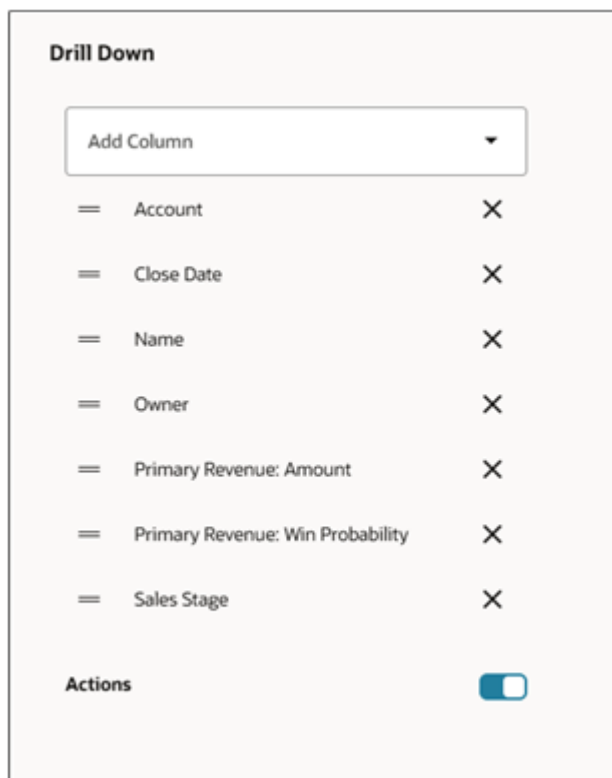


The screenshot shows a configuration panel titled "Filters". Inside, there is a search bar containing the text "Status Open" followed by a close icon (X) and the text "Add Filter". To the right of the search bar is a button labeled "Add Filter".

12. In the **Drill Down** section, use the controls to specify which columns you want to display in the list page that opens when users click the **View All** link at the bottom of the table.

Initially, the application lists the columns provided by the default saved search.

13. You can display the Actions menu on each record in the list by switching on **Actions**.



The screenshot shows a configuration panel titled "Drill Down". At the top is a dropdown menu labeled "Add Column". Below it is a list of columns with checkboxes and delete icons (X):

Column	Selected
Account	<input checked="" type="checkbox"/>
Close Date	<input checked="" type="checkbox"/>
Name	<input checked="" type="checkbox"/>
Owner	<input checked="" type="checkbox"/>
Primary Revenue: Amount	<input checked="" type="checkbox"/>
Primary Revenue: Win Probability	<input checked="" type="checkbox"/>
Sales Stage	<input checked="" type="checkbox"/>

At the bottom of the panel is a toggle switch labeled "Actions", which is currently turned on.

14. Set the **Status** field to **Active**.
15. Click **Create** to save the configuration.
16. Note the number of the visualization configuration on the list page. You'll use the number to include the visualization in the Sales Dashboard.

## Create a Chart from a Specific Saved Search

You can create a table or a chart visualization from a specific saved search. This visualization type inherits the filters and the columns specified in the saved search. When users drill down on a section of the chart, they're directed to the



page showing the saved search in the list page with the additional filter. When they click the View All link they see the list page for the saved search.

1. Make sure that the data in the saved search is visible to the user performing this configuration. You can temporarily remove filters from saved searches to ensure you see data.
2. Navigate to **Configuration > Application Composer**.
3. Click **Visualization Configuration** in the right-hand pane.
4. In the Visualization Configurations page, click **Add**.
5. From the Create Configuration page, **Source Type** field, select the **Adaptive Search**.

6. Select the object.
  7. In the **Saved Search** field, select the saved search.
  8. In the **Visualization Type** field, choose your preferred visualization, such as a bar chart, pie chart, donut chart, and so on.
  9. In the **Details** section, enter the dimensions and other preferences for the visualization. Which attributes are available depends on the type of visualization you're creating. The values you can enter in the attributes depend on your Adaptive Search setup.
- Note:** Only attributes that have been enabled for Group By in Adaptive Search are available for selection as your chart axes. For details, see the topic [How do I enable the filtering of visualizations by team members?](#)
10. Enable salespeople to drill down to the list page from sections of the chart. Turn on **Drill Down**.
  11. Set the **Status** field to **Active**.
  12. Click **Create** to save the configuration.
  13. Note the number of the visualization configuration on the list page. You'll need it when you add the visualization to the tab contents.

## Create a Table from a Specific Saved Search

Here's how to create a table from a specific saved search.

**Note:** The steps are very much the same as the ones you use to create a table from the default saved search. What's different here is that you can't change the filters and you can't choose which columns users see on the list page when they click the View All link at the bottom of the table. Both the filters and the list page column configuration come from the saved search.

1. Navigate to **Configuration > Application Composer**.
2. Click **Visualization Configuration** in the right-hand pane.
3. In the Visualization Configurations page, click **Add**.
4. From the Create Configuration page, **Source Type** field, select the **Adaptive Search**.
5. Select the object.
6. In the **Saved Search** field, select the saved search.
7. In the **Visualization Type** field, select **Tabular Chart**.
8. In the **Columns** section, use the **Add Column** list to add the columns you'd like to display in the table. The table builds as you add columns.

The screenshot shows the 'Visualization Configuration' interface. At the top, there is a dropdown menu labeled 'Visualization Type' with 'Tabular Chart' selected. Below this is a section titled 'Columns'. Inside the 'Columns' section, there is a dropdown menu labeled 'Add Column'. Below the dropdown, there are three rows of column configurations, each with a blue equals sign icon, a text label, and a blue 'X' icon for removal. The labels are 'Name', 'Account: Name', and 'Primary Revenue: Expected Revenue'. At the bottom of the configuration area, there is a section labeled 'Actions' with a blue toggle switch that is currently turned on.

9. Turn on **Actions** to display the **Actions** list (three dot icon) on each record in the table.

10. Click the column name link to format the columns in the table and to specify the drill down destination:
  - a. In the Preferences drawer **Format** field, add any required format for the column. For example, to add the currency symbol, select **Currency**.
  - b. Click **Drill Down** to enable drill down from the column.
  - c. Select the page you want to open. For example, to open the opportunity details page, select **opportunities**.

The screenshot shows a 'Preferences' drawer with the following elements:

- Columns Name**: A dropdown menu.
- Format**: A dropdown menu.
- Drill Down**: A toggle switch (currently on) and a dropdown menu.
- Page opportunities**: A dropdown menu.
- Back**: A button at the bottom right.

- d. Click **Back**.
11. Set the **Status** field to **Active**.
12. Click **Create** to save the configuration.
13. Note the number of the visualization configuration on the list page. You'll use the number to include the visualization in the Sales Dashboard.

## Create Visualizations from OTBI Analyses

Using the Visualization Configuration tool in Application Composer, you can create interactive charts and tables for your sales dashboard from Oracle Transactional Business Intelligence (OTBI) analyses. Salespeople remain in the Redwood User Experience when they drill down on charts or tables. They can drill down to individual records and take advantage of smart actions, such as making a call by clicking a phone number.

The steps to create a chart or a table use the same UI, but are slightly different, so they're covered in separate topics:

- *Create a Table from an OTBI Analysis*
- *Create a Chart from an OTBI Analysis*

## What to Check in OTBI Before You Start

- Make sure that the person creating the visualization can view data in the analysis itself. You can temporarily remove filters from your analysis to ensure that you see data as you create the visualization.
- You can source multiple visualizations from the same OTBI report. It's good practice to have the smallest number of columns in the report that you need for those visualizations.
- If you plan to enable drill-down from a table on the sales dashboard, then you must also add the ID and PUID columns that can uniquely identify each individual record to your analysis.

For example, to enable drill down on opportunity name, you include the Opportunity Number (the PUID) and the Opportunity ID columns. For leads, it's the Lead Number and Lead ID, and for activities, it's the Activity Number and Activity ID. For accounts, it's the Account Number (Registry ID in the OTBI Subject Area) and Account ID ( Customer ROW ID in the OTBI Subject Area).

- You must ensure that none of the columns you selected as criteria in your OTBI analysis are marked as hidden in the report. All of the columns, including the ID and PUID must be visible in the results.
- It's a good idea to store your analysis in the Custom folder.

## Create a Table from an OTBI Analysis

Here's how to create a table for the sales dashboard from an OTBI analysis using the Visualization Configuration feature in Application Composer.

### Create the Visualization


1. Navigate to **Configuration > Application Composer**.
2. Click **Visualization Configuration** in the right-hand pane.
3. Click **Add** to create a new configuration.
4. On the Create Configuration page, select **OTBI Analysis** as the **Source Type**.
5. Click **Select Catalog Folder**, the folder icon, and select **Custom**.

The screenshot shows the 'Create Configuration' window. At the top, the title is 'Create Configuration'. Below it, there's a 'Source Type' dropdown menu currently set to 'OTBI Analysis'. To the right of this is a 'Select Catalog Folder' icon (a folder with a plus sign) which is highlighted with a red box. Next to it is a search bar labeled 'Search for analysis in /shared/Custom folder' with a 'Required' label. Below these elements is a list of catalog folders: 'Custom', 'Sales', 'Service', 'Incentive Compensation', 'Procurement', and 'Subscription Management'. The 'Custom' folder is currently selected and highlighted in blue.

6. In the search field, enter the name of your custom analysis.
7. Select the analysis in the search results. All the fields in the analysis are included automatically, and the visualization displays on the page.
8. In the **Name** field, enter the title for the table.
9. In the **Visualization Type** field, select **Tabular Chart**.
10. Use the controls in the **Columns** section to change column order and to hide columns you don't want to display in the table.

Callout	Control Description
1	Use the handles to change column order.
2	Click the name link to specify column format (such as currency, decimal, or percentage) and enable drill-down on the field.
3	Hide columns in the table. In this example, we're hiding the <b>Opportunity ID</b> and <b>Opportunity Number</b> columns. These columns are used to identify the record for the drill down in the next step. They aren't meaningful to salespeople.

Source Type  
OTBI Analysis

 Search for analysis in /s...  
Opportunity Sales Stage I

Name  
Opportunity Sales Stage Detail

Status  
Draft

Visualization Type  
Tabular Chart


Columns

1

—


Name

2




—

Expected Close Date




—

# of Days in Current Stage




—

Days Stalled




—

Average Duration of Stage




—

Enterprise Quarter




—

Opportunity ID

 3

—

Opportunity Number



11. Enable drill-down functionality on fields in the table. For example, open an opportunity by clicking on its name:
  - a. Click the **Name** link.
  - b. On the Preferences drawer, turn on **Drill Down**.
  - c. In the **Page** field, select the type of record you're opening. In this example, **opportunities**.
  - d. In the **PUIID** field, select the number ID for the object. For opportunities this is the Opportunity Number.
  - e. In the **ID** field, select the object ID field, such as Opportunity ID.

The screenshot shows a 'Preferences' drawer with the following settings:

- Columns:** Name
- Format:** Text
- Drill Down:** Enabled (toggle switch)
- Page:** opportunities
- PUIID:** Opportunity Nur
- ID:** Opportunity ID
- Back** button

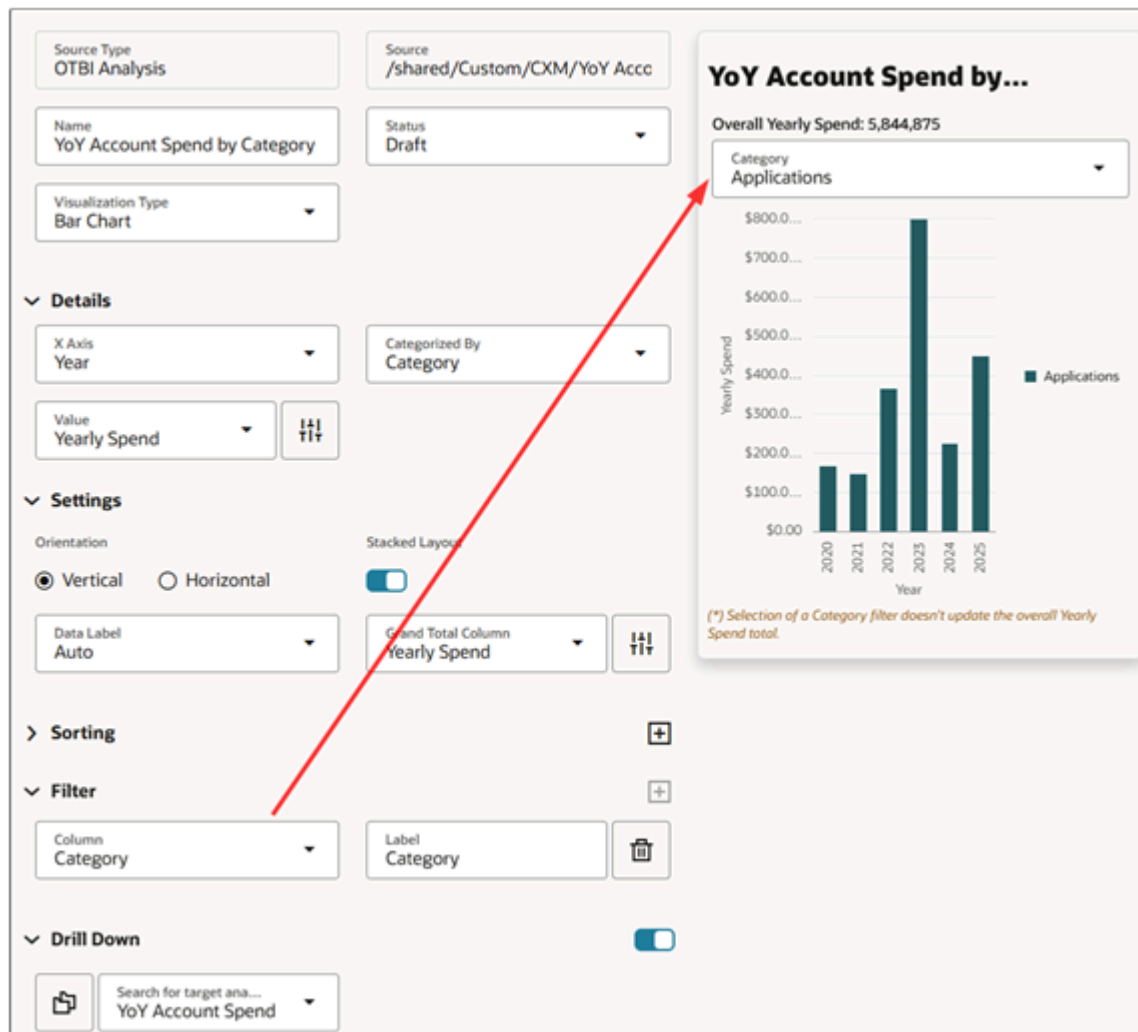
- f. Click **Back**.
12. You can test the drill-down from the table.
13. Set the configuration **Status** to **Active**.
14. Click **Create** to save the configuration.
15. Note the number of the visualization configuration on the list page. You use this number to reference the visualization in the sales dashboard.

## Create a Chart from an OTBI Analysis

Follow these steps to create various kinds of charts from Oracle Transactional Business Intelligence (OTBI) analyses.

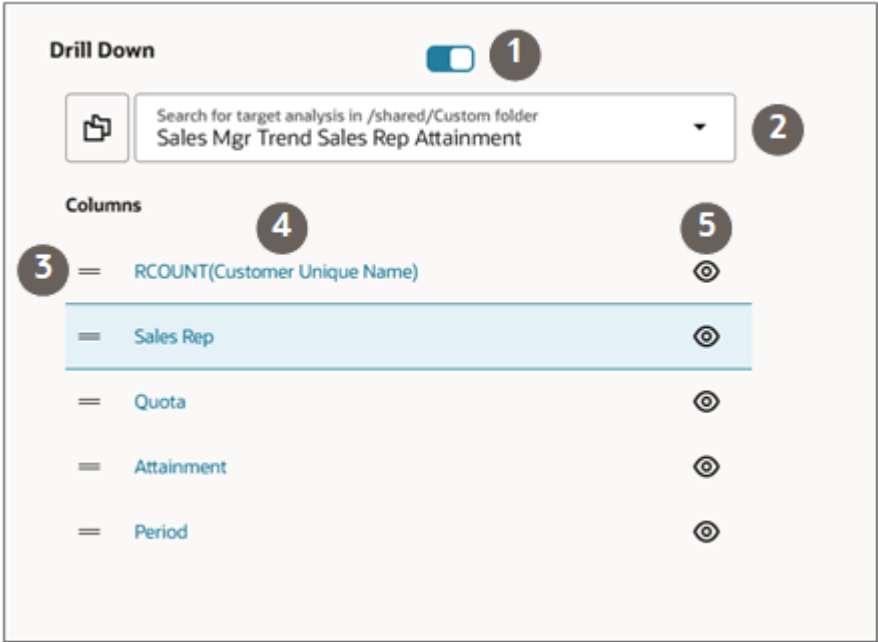
1. Make sure that the person creating the visualization can view data in OTBI itself. You can temporarily remove filters from your analysis to ensure you see data as you create the visualization.
2. Navigate to **Configuration > Application Composer**.
3. Click **Visualization Configuration**.
4. Click **Add** to create a new configuration.
5. On the Create Configuration page, select **OTBI Analysis** as the **Source Type**.
6. Click **Select Catalog Folder**, the folder icon, and select **Custom**.

7. In the search field, enter the name of your custom analysis.
8. Select the analysis from the search results. All the fields in the analysis are included automatically.
9. In the **Visualization Type** field, select the chart type.
10. In the **Name** field, enter the display title of the chart.
11. In the Details section, choose the columns of the report for the chart type you selected. Different types of visualization require you to enter different parameters.
12. The Settings section lets you change the orientation of chart, stacking, and the inclusion of a grand total. You can also specify the data label position, along with Grand Total for both Adaptive Search and OTBI based visualizations
13. In the Sort section, you can sort the chart data using any of the attributes in your analysis.
14. Optionally, add a filter that salespeople can use to narrow down the scope of the visualization. The filter appears above the chart.



15. Enable drill-down functionality and configure the list page that salespeople see when they click a chart section. You can use the same analysis or choose a different analysis as the source for the list page. For example, you can display an analysis with more details than the original. The target OTBI analysis must have a prompted filter applied on the same column that will be used for drill-down. For example, if a manager clicks a bar of a chart representing an opportunity owner, then the analysis you specify in the drill-down attribute must have a prompted filter on Opportunity Owner column in the report.

Callout	Field	Description
1	Drill Down switch	Enables users to click a section of the chart to view a page listing the records matching the filters in that section.
2	Search for target analysis	Select the analysis you want to open when users click a section of the chart.
3	Drag handle	Change the order of columns in the list page
4	Column names	Click to enable drill-down on the list page.
5	Hide	Hide columns on the list page. A maximum of 15 columns can be selected to display on the list page.





16. Enable drill-down on individual columns on the list page, specify their formatting, and the page they open:
  - a. Click the field name link.
  - b. On the Preferences drawer, turn on **Drill Down**.
  - c. In the **Page** field, select the type of record you're opening. For example, **opportunities**.
  - d. In the **PUIID** field, select the number ID for the object. For opportunities this is the Opportunity Number.
  - e. In the **ID** field, select the object ID, such as Opportunity ID.

The screenshot shows a 'Preferences' drawer with the following settings:

- Columns Name:** (Dropdown menu)
- Format:** Text (Dropdown menu)
- Drill Down:** (Toggle switch, currently turned on)
- Page:** opportunities (Dropdown menu)
- PUIID:** Opportunity Nur (Dropdown menu)
- ID:** Opportunity ID (Dropdown menu)
- Back:** (Button)

- f. Click **Back**.
17. Set the **Status** field to **Active**.
18. Click **Create** to save the configuration.
19. Note the number of the visualization configuration on the list page.

## How do I enable the filtering of visualizations by team members?

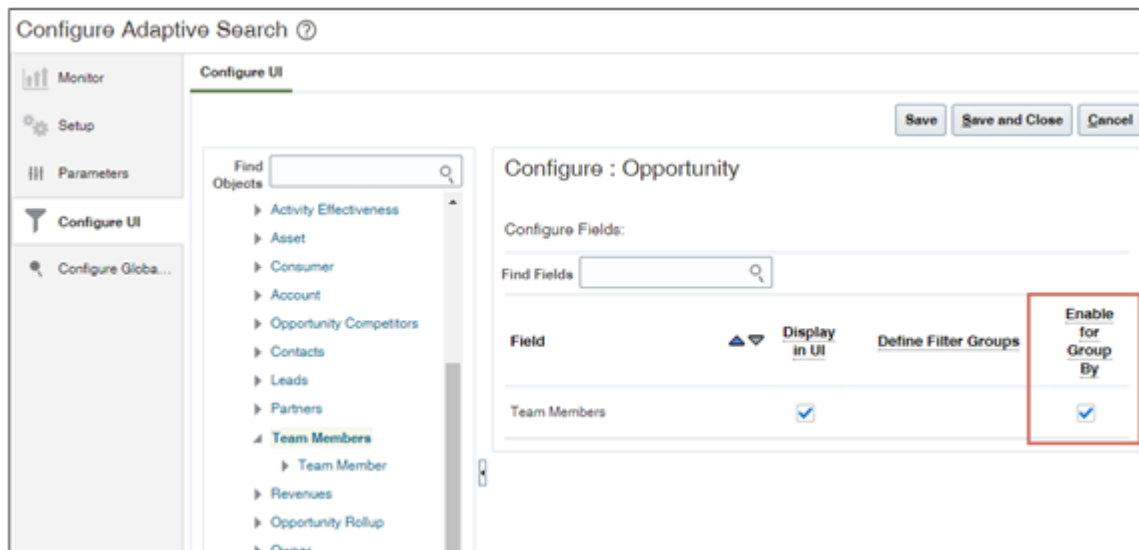
To filter data by the different team members in saved searches and their visualizations, you must enable the Team Members attribute for the Group By feature in Adaptive Search. You can then use the Team Members field to group data in your search and the resulting visualization. Suppose, for example, that a bar chart in the Sales Dashboard shows performance for different team members. Enabling the attribute, makes it possible to click one of the bars to view the performance just for that team member.

## Enable the Group By Feature

1. Click **Navigator > My Enterprise > Setup and Maintenance**.
2. In the Setup and Maintenance work area, open the **Configure Adaptive Search** task.
  - o Offering: Sales
  - o Functional Area: Sales Foundation
  - o Task: Configure Adaptive Search
3. On the **Configure Adaptive Search** page, click the **Parameters** tab.
4. Highlight the **Enable Group By** and click **Edit**.
5. In the Warning message, click **Yes**.
6. In the **Current Value** field, change the value from N to Y and click **Save and Close**.

## Enable Team Member Fields for Group By

1. Sign in as a setup user.
2. Navigate to the Setup and Maintenance work area, and open the Configure Adaptive Search task:
  - o Offering: Sales
  - o Functional Area: Sales Foundation
  - o Show: All Tasks
  - o Task: Configure Adaptive Search
3. On the Configure Adaptive Search page, click the **Configure UI** tab.
4. Select the object you want to set up for your Group By in the left pane of the tab and open the object hierarchy to locate Team Members and Team Member.



5. Select the **Enable for Group By** option for both Team Members and Team Member fields.

**Note:** Ensure that the **Display in UI** option is also selected

6. Click **Save and Close**.

7. Sign out and then sign in again to see your changes.

## How do I update active visualizations?

You can only update visualizations that are in a **Draft** status. Before you can update a visualization that's **Active**, you must change the status to **Inactive** and then to **Draft**.

Here's how:

1. On the Visualization Configuration page, drill down on the **Reference Number** of the active visualization you want to update.
2. Change the **Status** to **Inactive** and click **Update**.
3. Drill down on the reference number again, change the status to **Draft**, and click **Update** again.
4. Drill down again to update.
5. he



## 5 Configure the Dashboard

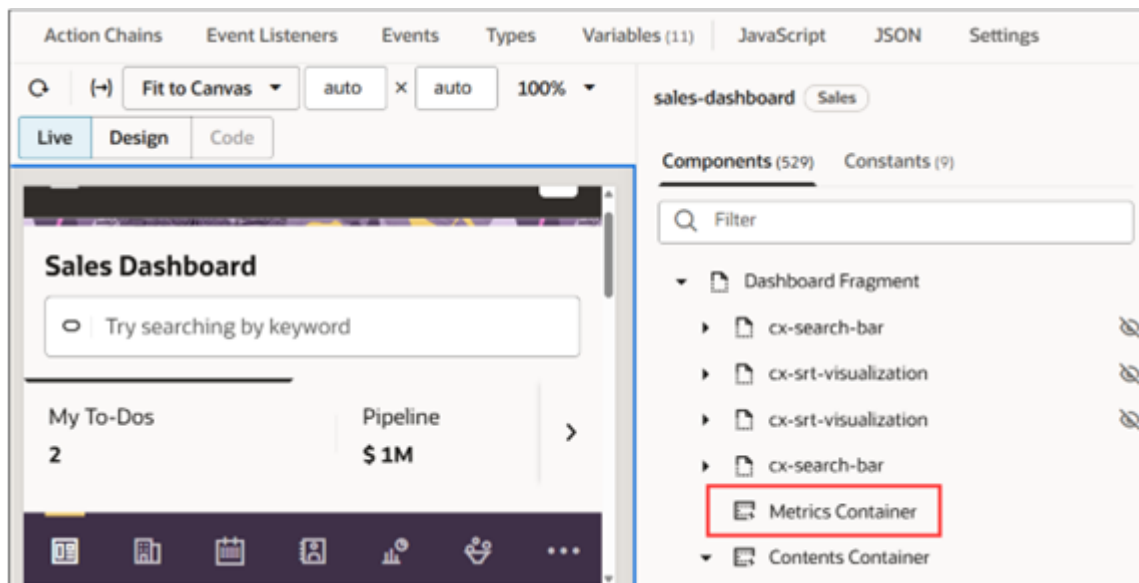
### Create the Shell of Your Dashboard by Duplicating One of the Dashboards Provided by Oracle

Oracle provides you with 2 sales dashboards: one for sales representatives and the other for sales managers.

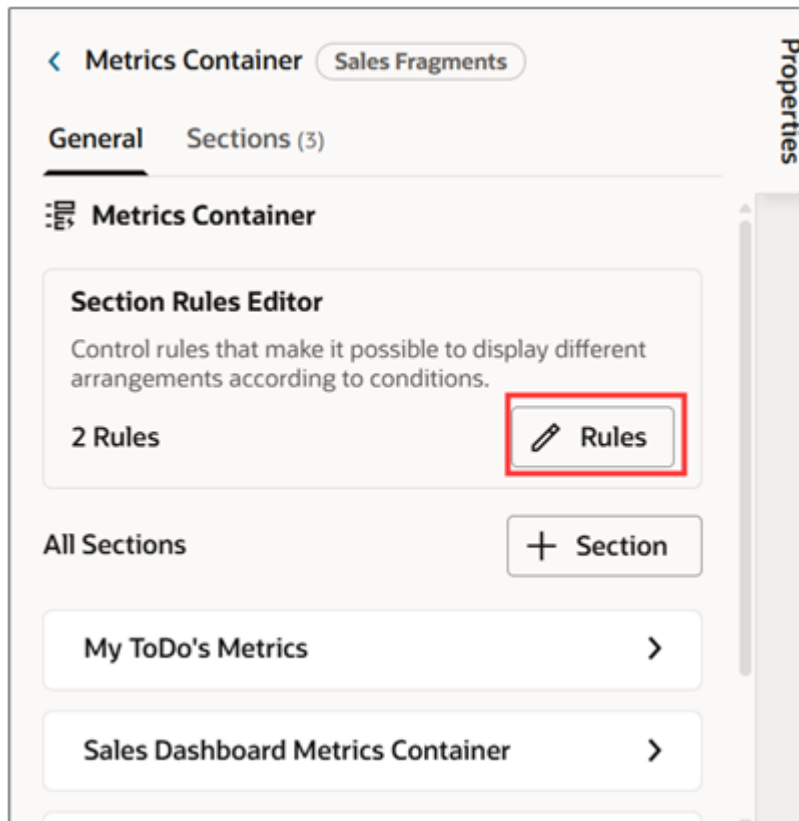
The sales manager dashboard includes conditions that make it visible only the 2 sales manager job roles provided by Oracle. The sales representative dashboard includes no conditions, so it's available to everyone.

Before making changes or creating a new dashboard, make a copy. You can't edit the dashboards provided by Oracle, even if you're making a minor change.

1. Open the Sales Dashboard in the application and click **Settings and Actions > Edit Page in Visual Builder Studio**.
2. On the **Components** pane, search for and click the **Metrics Container** link in the Dashboard Fragments folder.

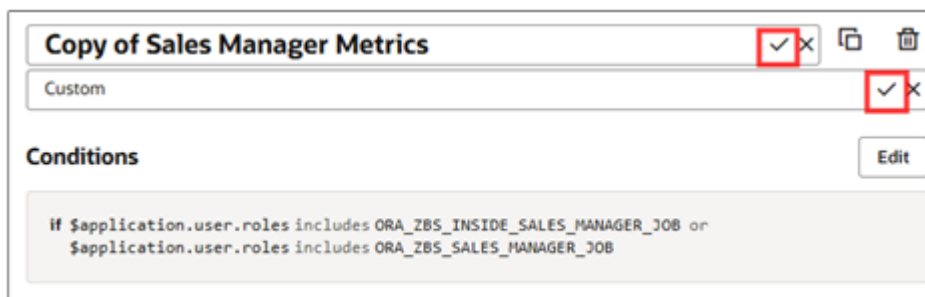


3. In the Properties pane, click the **Rules** button.



4. In the Components pane, duplicate both of the containers provided by Oracle.

When entering the new container name and in other fields, save by clicking **Confirm** (the check mark icon).



Your copies appear in the Extension Container section.

5. To specify who can view the sales dashboard:

- a. Click **Edit** in the **Conditions** section of one of the duplicates you made.

You can tailor your sales dashboard to a specific audience by adding any number of conditions. For example:

- To show the dashboard to users with specific job roles, you can add a condition such  
`oS: $application.user.roles.includes('ORA_ZBS_INSIDE_SALES_MANAGER_JOB') ||`  
`$application.user.roles.includes('ORA_ZBS_SALES_MANAGER_JOB')`
- To have the dashboard appear for a single user, you can add a condition such as the following:  
`$user.userName=='SALES_ADMIN'`

To enter the conditions, you can use either the built-in editor by clicking **Design**, or click **Code** to enter the code directly.

**Tip:** To make sure the sales dashboard you're working on remains visible to you during setup, you may want to delete all the conditions. You can add them back before you publish.

6. Container conditions are evaluated in order from the top instance down. So, make sure that the sales dashboard you're creating is in the correct position in the list, with the least restrictive last. You can move the copied containers within the Extension Rules section by dragging.

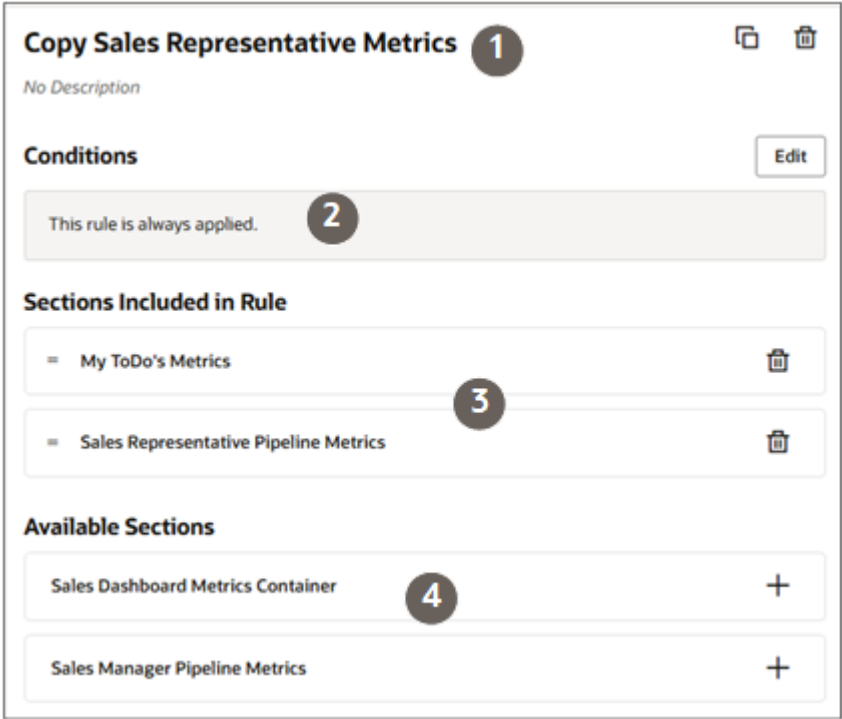
For example, the Sales Manager Metrics dashboard provided by Oracle displays to sales manager roles because it's the first on the list. All other users see the Sales Representative Metrics dashboard.

7. You're now ready to start creating the metric cards (the tabs on the dashboard) as described in the topic [Create the Metric Card for the Top of the Tab](#)
8. In the **Sections Included in Rule** section, you can also edit the existing content:
- o Delete any of the existing metric cards.
  - o Change their position by dragging. The position in list of determines the order of the tabs in the sales dashboard.

**Anatomy of the Sales Dashboard Representation as a Metrics Container**

Callout	Description
1	Sales dashboard title, which displays only during setup.
2	Conditions that specify who sees the sales dashboard.
3	Sections Included in Rule list the tabs in the order they appear in the sales dashboard. You can drag the sections to change the tab order.

Callout	Description
4	The content listed in Available Sections contains different types of fragments. These include fragments that you can't add because they can't be used as dashboard tabs.



## Create the Metric Card for the Top of the Tab

For each tab you want to add or extend, you must create a custom metric card, the top section of a tab which is always visible. You can't edit or duplicate any of the metric cards provided by Oracle.

To create the metric card for the top of each tab, you:

1. Create the metric card contents as a visualization in the Visualization Configuration tool.
2. Create the metric card using the visualization in Oracle Visual Builder Studio (VB Studio).

**Note:** You can also create the specifications for your metric cards manually, directly in VB Studio, without creating a visualization first. Oracle recommends creating a visualization, however, because the Visualization Configuration tool speeds up the process, reduces complexity, and avoids errors in setup. For the manual steps, see the topic [Create a Metric Card Directly in VB Studio](#).

## Create the Metric Card Contents as a Visualization

1. Make sure that the data you're using is visible to the user performing this configuration. You can temporarily remove filters.
2. Navigate to **Configuration > Application Composer**.
3. Click **Visualization Configuration** in the right-hand pane.



4. In the Visualization Configurations page, click **Add**.
5. From the Create Configuration page, **Source Type** field, select the **Adaptive Search** or **OTBI Analysis**, depending on the source of your data.
6. If you selected **Adaptive Search** as the source type, then:
  - a. Select the object.
  - b. In the **Saved Search** field, then select **Default** or a specific saved search.

Selecting **Default** uses the default saved search for that object as your starting point and permits you to change the filters in the Filters region.

The screenshot shows a 'Filters' section with a search bar containing 'Status Open' and a button to 'Add Filter'. Below the search bar, there is a 'Record Set' field with the text 'My subordinates are on the team' and another 'Add Filter' button.

7. If you selected **OTBI Analysis**, then search for the analysis by name. By default, the application searches the Custom folder, but you can change the folder using the **Folders** button.
8. In the **Visualization Type** field, select **Metric Card**.
9. In the **Name** field, enter the title of the tab you're creating.
10. In the Details section, **Primary Metric** field, select the type of information you want to summarize under the title. For example, to display opportunity revenue, select Primary Revenue: Amount.
11. Click the **Preferences** button (broken vertical lines icon).
12. In the Format field, select how you want the data to be represented. For revenue, select Currency to display the currency symbol.
13. In the **Aggregation** field, select the calculation type. For revenue, select Sum, for example.

The screenshot shows the 'Details' section with four numbered callouts: 1. Primary Metric dropdown set to 'Primary Revenue: Amount'. 2. Secondary Metric dropdown set to 'Count'. 3. Format dropdown set to 'Currency'. 4. Aggregation dropdown set to 'Sum'. There is also a 'Unit' dropdown set to 'Round Even'.

14. Repeat the same entries for any **Secondary Metric**. The secondary metric is the number which appears in parentheses next to the primary metric. For opportunity revenue, you may want to display the number of opportunities by selecting **Count**, for example.
15. In the **Badge** section, specify the badges and the ranges of values that display them:

For example, you can configure these badges for tasks:

- If fewer than 5 overdue tasks exist, then don't show a badge at all.
- If 5-10 overdue tasks exist, then show a warning badge.

- If more than 10 overdue tasks exist, then show a critical badge.

The order of the conditions is important. Each condition is evaluated in the order in which you define them, from top to bottom. Whichever condition is satisfied first is the condition that's applied.

- In the **Badge Type** field, select **Static**.
- Add the thresholds. For each threshold, specify the badge color, operator, threshold value and short text.

**Badge**

Badge Type  
Static

+ Add Threshold

	Operator Less than equal to	Threshold Value 10,000,000	Text Low	
	Operator Greater than	Threshold Value 10,000,000	Text On Target	

- Set the **Status** field to **Active**.
- Click **Create** to save the configuration.
- Note the number of the visualization configuration on the list page.

## Create the Metric Card with the Visualization

- Click the **Add Section** button in the Metrics Container Properties section.

< Metrics Container Sales Fragments

General Sections (3)

Metrics Container

Section Rules Editor  
Control rules that make it possible to display different arrangements according to conditions.

4 Rules ● Rules

All Sections

+ Section

My ToDo's Metrics >

Sales Dashboard Metrics Container >

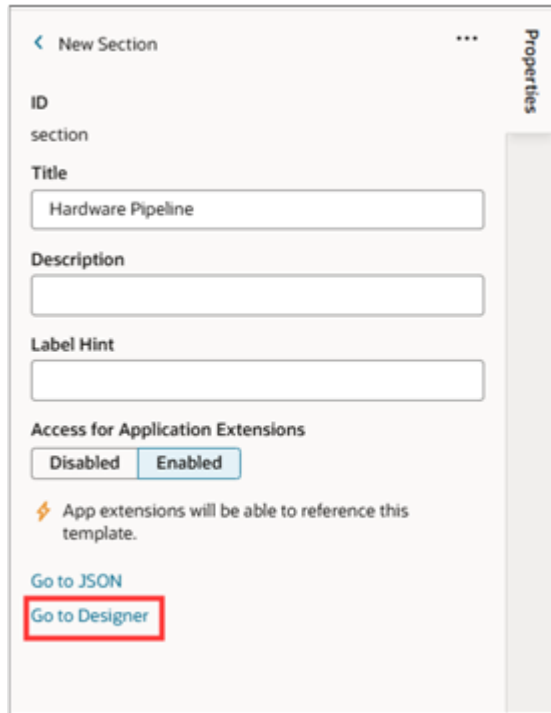
Sales Manager Pipeline Metrics >

Sales Representative Pipeline Metrics >

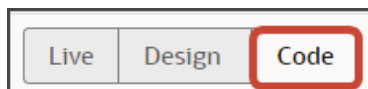
- Click **New Section** at the top of the list.

**Note:** Although VB Studio allows it, you can't duplicate the metric cards provided by Oracle. You must create your own by adding a new section.

3. In the Properties, enter a title that's visible only during setup. For example, enter **Hardware Pipeline**. The title you enter here isn't the tab title that appears on the sales dashboard page. The runtime title comes from the visualization you created.
4. Click the **Go to Designer** link.



5. Click **Code**.

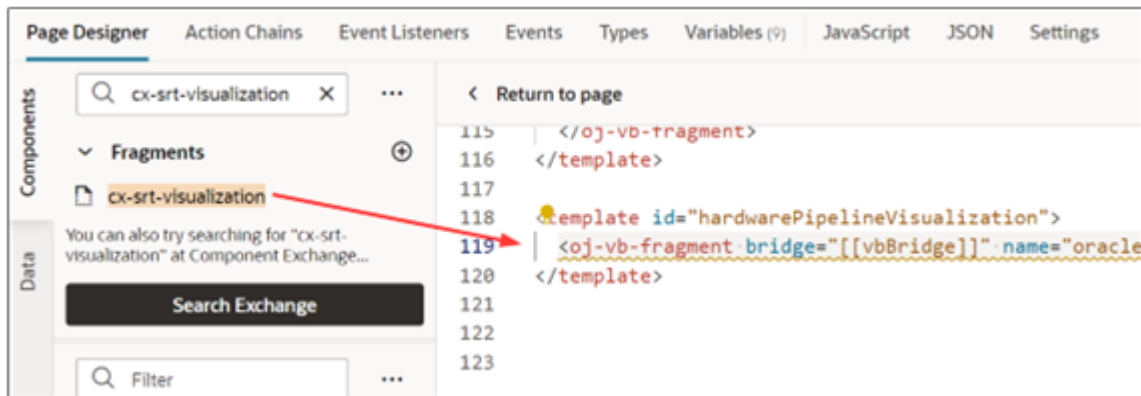


6. Your new **Hardware Pipeline** section displays empty placeholder `template` tags. For example:

```
<template id="salesManagerHardwarePipelineMetrics">  
</template>
```

7. On the Components palette, in the Filter field, enter `cx-srt-visualization`.

8. Drag and drop the **cx-srt-visualization** fragment to the editor, between the template tags.



9. Add the following class information `class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height"` to the **<oj-vb-fragment** line before the **>** tag.

```
<oj-vb-fragment bridge="[[vbBridge]]" name="oracle_cx_fragmentsUI:cx-visualization"
class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height">
```

10. Below the bridge parameter and before the **</oj-vb-fragment>** tag, add the following fragment parameter. Enter the number of the visualization you created in the **value** parameter.

```
<oj-vb-fragment-param name="reportNumber" value="6001"></oj-vb-fragment-param>
```

11. Add the following parameters:

```
<oj-vb-fragment-param name="context"
value='{ "mode": "dashboard", "source": "DV", "slot": "metric" }'></oj-vb-fragment-param>
<oj-vb-fragment-param name="filter" value="[[ $base.page.variables.dashboardFilters ]]"></oj-vb-fragment-param>
</oj-vb-fragment>
```

Your finished code will look like this:

```
<template id="hardwarePipeline">
<oj-vb-fragment bridge="[[vbBridge]]" name="oracle_cx_fragmentsUI:cx-visualization"
class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height">
<oj-vb-fragment-param name="reportNumber" value="6001"></oj-vb-fragment-param>
<oj-vb-fragment-param name="context"
value='{ "mode": "dashboard", "source": "DV", "slot": "metric" }'></oj-vb-fragment-param>
<oj-vb-fragment-param name="filter" value="[[ $base.page.variables.dashboardFilters ]]"></oj-vb-fragment-param>
</oj-vb-fragment>
</template>
```

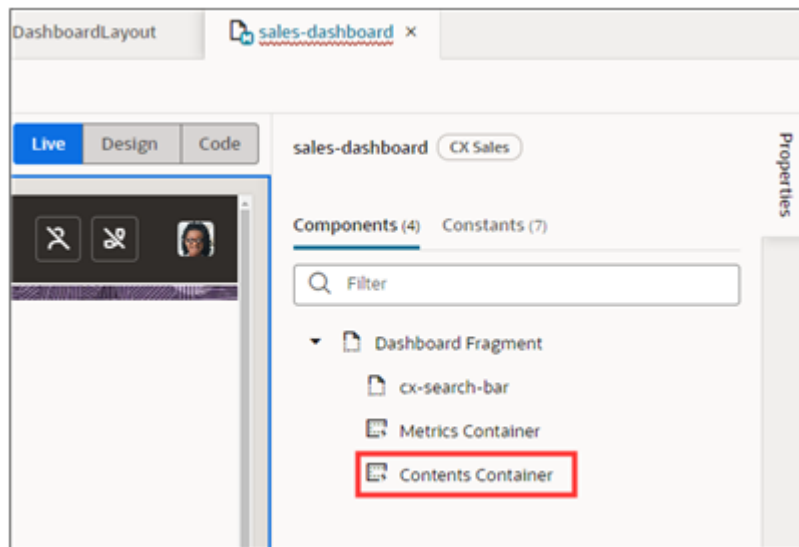
12. You can preview your changes by clicking the **Preview** button.
13. Click **Return to Page**.

You're now ready to configure the content container for the tab as described in the topic [Create the Contents Container and Link It to the Metric Card](#).

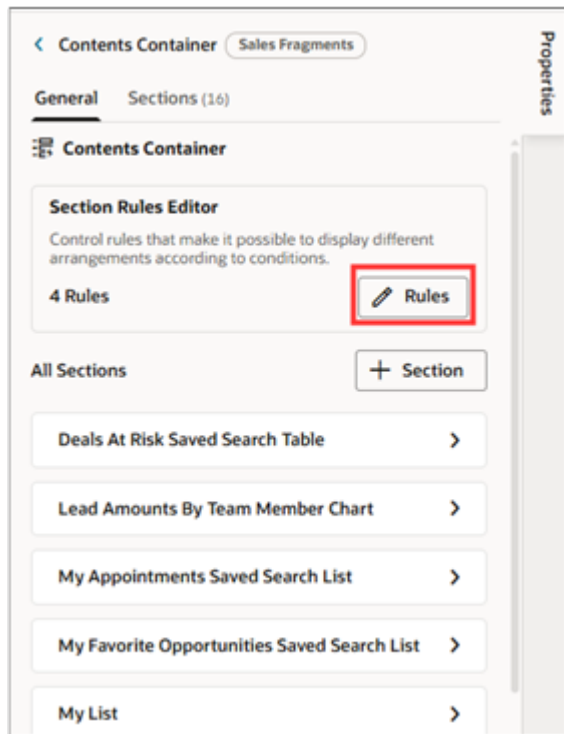
## Create the Contents Container and Link It to the Metric Card

After you've created a custom metric card for your dashboard tab, you're ready to create the container that will hold the content you want to display. Here's how.

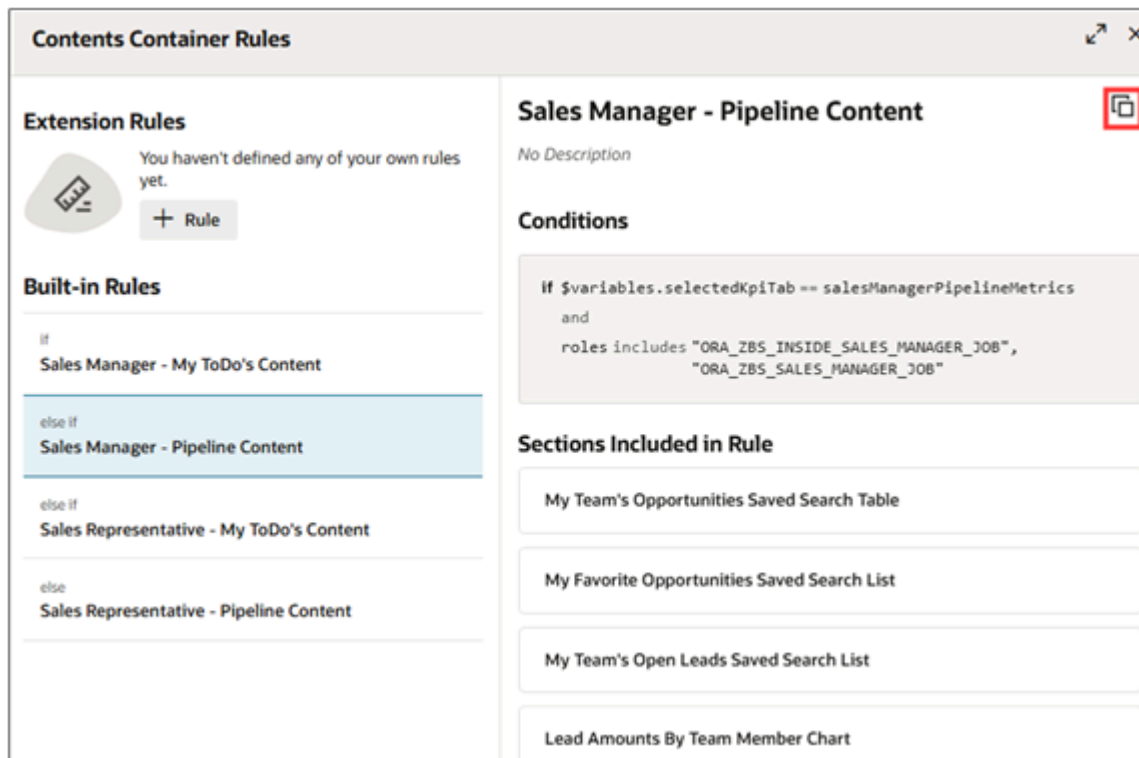
1. Open the Sales Dashboard and edit the page in Oracle Visual Builder Studio.
2. On the Components pane, click **Contents Container**.



3. Click the **Rules** button.



4. Oracle provides a contents container for each metric card, so select the one that includes content of interest and click **Duplicate**.  
In this example, we're creating a tab that displays information on the team hardware opportunity pipeline, so we'll duplicate the **Sales Manager - Pipeline Content**.



5. Edit the name and click **Confirm** (the check mark) to save. For example, you can add **(copy)** to the name. The name doesn't show up for users, only during configuration.

In the **Condition** section, click **Edit** and replace the ID with the ID for the metric card you created.

This link ensures the contents of your tab displays each time a user clicks on the metric card.

You're now ready to create the sections for inclusion in the contents container as described in the topic [Create the Sections with the Content You're Displaying](#).

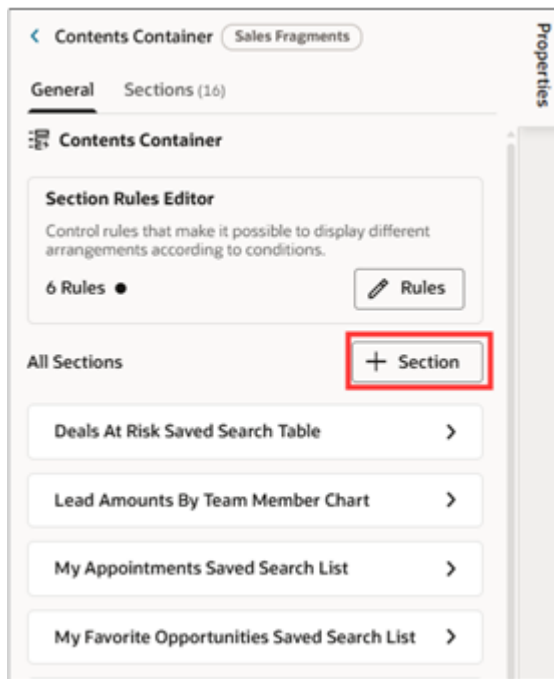
## Create the Sections with the Content You're Displaying

Create the sections with the visualizations and tables that you want to add to the tab. You can add up to 5 sections in a tab. Each section can display a table, a list, or a visualization created in the Visualizations Configurations tool or in Express Reports.

**Note:** Embedding Oracle Fusion Data Intelligence content requires extra steps, and is covered in a separate topic [Embed Content Created in Oracle Fusion Data Intelligence](#).

1. Display the Sales Dashboard and open the Oracle Visual Builder Studio.
2. In the Properties pane Components tab, search for and click **Contents Container**.

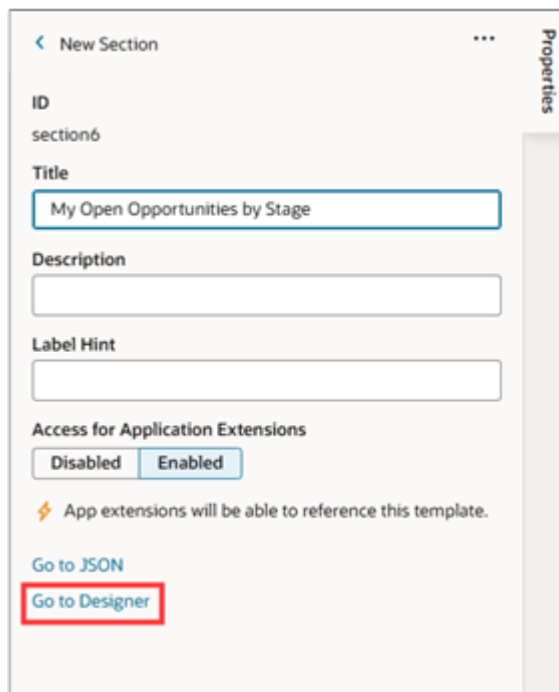
3. On the Contents Container Properties pane, click the **+ Section** button.



4. Select **+ New Section** at the top of the list.
5. In the Properties New Section pane, **Title** field, enter a title for the visualization component.

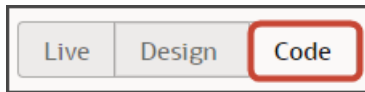
**Note:** The title is the name of the component and doesn't appear on the dashboard at runtime. The runtime title comes from the `dashboardTitle` parameter that you add to the visualization code.

6. Click the **Go to Designer** link.

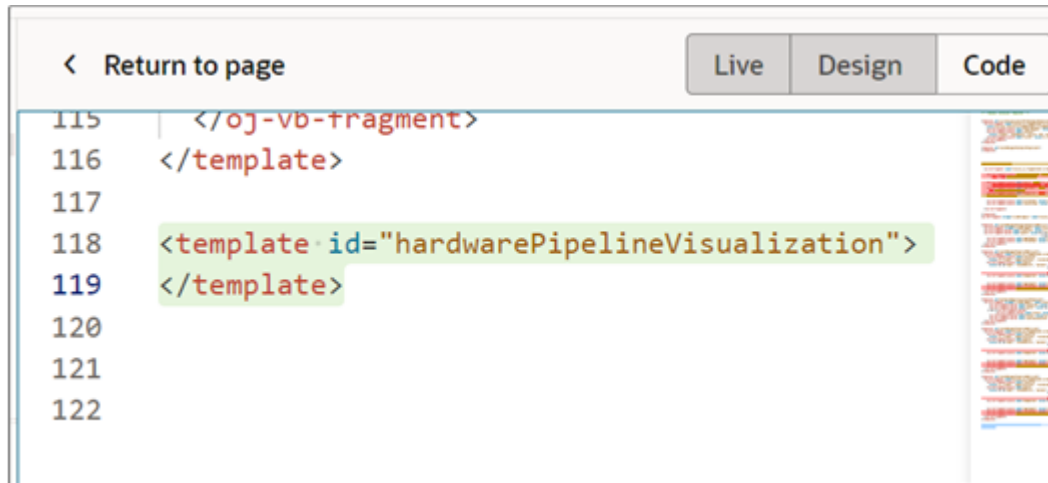




7. Click the **Code** button.



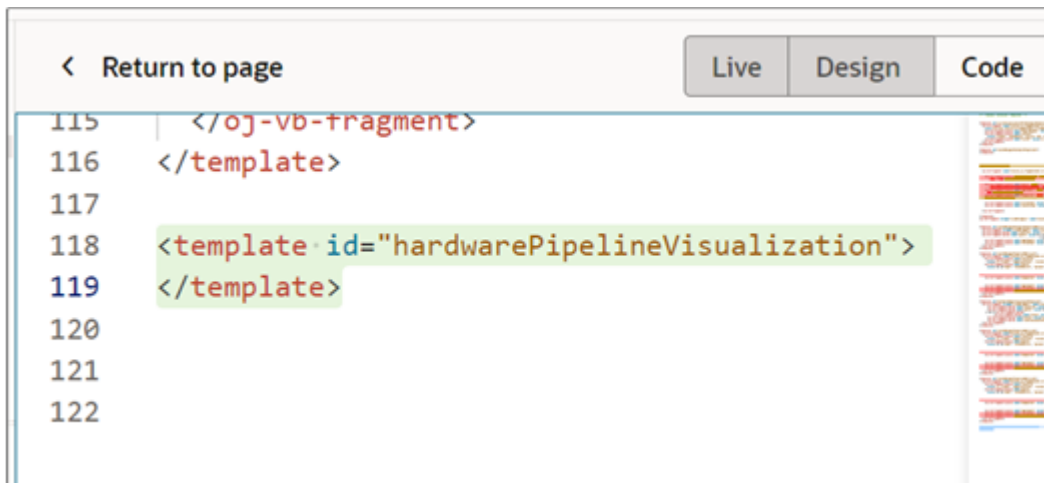
Your new section displays empty placeholder `template` tags.



8. Add the appropriate code, depending on the type of content you're adding:
  - *Add Code for Visualizations*
  - *Add Code to Display a Saved Search as a List*
  - *Add Code to Display My List*
9. You're now ready to add the section to the contents container as described in the topic *Add the Sections to the Tab's Contents Container*.

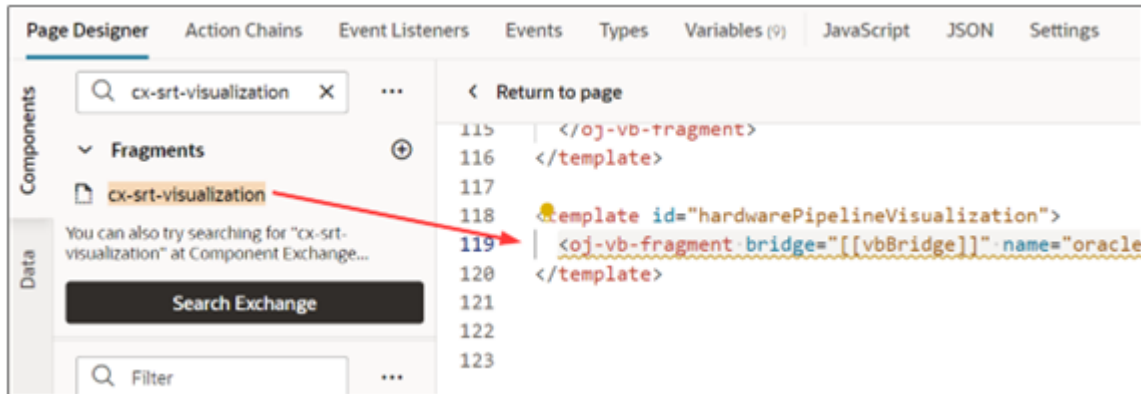
## Add Code for Visualizations

Here's the code that you add between the empty template tags for a section displaying visualizations created using the Visualization Configurations tool or those created using Express Reports.



1. On the Components palette, **Filter** field, enter `cx-srt-visualization`.

2. Drag and drop the **cx-srt-visualization** fragment to the editor, between the template tags.



3. Add the following class information `class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height"` to the **<oj-vb-fragment** line before the **>** tag.

```
<oj-vb-fragment bridge="[[vbBridge]]" name="oracle_cx_fragmentsUI:cx-visualization"
class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height">
```

4. Add the following fragment parameters to the code below the bridge parameter and before the **</oj-vb-fragment>** tag.

```
<oj-vb-fragment-param name="reportNumber" value="XXXX"></oj-vb-fragment-param>
<oj-vb-fragment-param name="context" value='{ "mode":
"dashboard", "source": "DV", "dashboardTitle": "XXXXX" }'></oj-vb-fragment-param>
<oj-vb-fragment-param name="filter" value="[[ $base.page.variables.dashboardFilters ]]"></oj-vb-
fragment-param>
```

In your fragment code, replace the values for the `reportNumber`, `source`, and `dashboardTitle` parameters with the values for your custom visualization.

This table describes the key parameters:

### Custom Visualization Parameters

Parameter Name	Description
reportNumber	Enter the reference number of the visualization that you created using the Visualization Configuration tool.  You can also display the visualizations created in Express Reports, by entering its report number. The sales dashboard only displays the visualization part of the Express Report. The table isn't displayed.
mode	This value should always be <b>dashboard</b> .
source	Enter <b>DV</b> for visualizations you created using the Visualization Configuration tool.  To display the visualizations created in Express Reports, enter <b>SRT</b> .

Parameter Name	Description
dashboardTitle	Specify the title of the visualization that displays above the chart at runtime.

Here's a finished code sample for a visualization created in the Visualization Configuration tool:

```
<template id="hardwarePipelineVisualization">
  <oj-vb-fragment bridge="[[vbBridge]]" name="oracle_cx_fragmentsUI:cx-visualization"
    class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height">
    <oj-vb-fragment-param name="reportNumber" value="4001"></oj-vb-fragment-param>
    <oj-vb-fragment-param name="context"
      value='{ "mode": "dashboard", "source": "DV", "dashboardTitle": "Opportunities by Stage" }'></oj-vb-
fragment-param>
    <oj-vb-fragment-param name="filter" value="[[ $base.page.variables.dashboardFilters ]]"></oj-vb-
fragment-param>
    </oj-vb-fragment>
  </template>
```

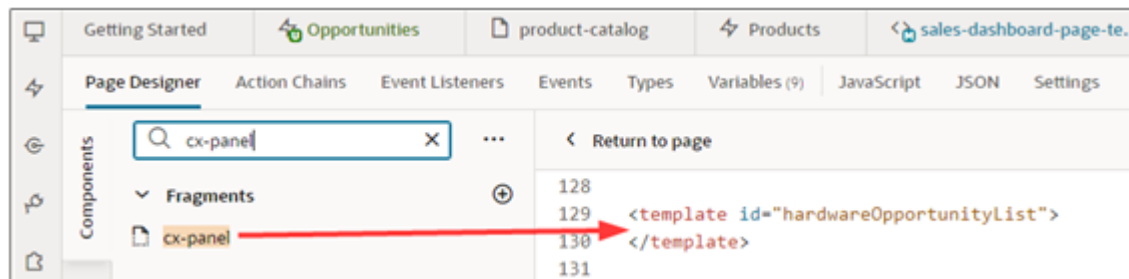
5. You're now ready to add the section to the contents container.

## Add Code to Display a Saved Search as a List

You can display saved searches as lists in the Sales Dashboard. Here's how.

**Note:** The sample code in this example is for opportunities. For value to use with other objects, see the topic *Values to Use in Code for Standard Components in Tables, Metric Cards, and List Views*.

1. On the Components palette, in the **Filter** field, enter **cx-panel**.
2. Drag and drop the **cx-panel** fragment to the template editor, between the template tags.



3. Add the following class information `class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height"` to the **<oj-vb-fragment** line before the **>** tag. Here's the resulting line:

```
<oj-vb-fragment bridge="[[vbBridge]]" name="oracle_cx_fragmentsUI:cx-panel"
  class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height">
```

4. Add the required **resource** parameter, which specifies the object you're displaying. Here are the values for opportunities:

```
<oj-vb-fragment-param name="resource"
```

```
value='[[ { "name": "opportunities", "primaryKey": "OptyId", "puid": "OptyNumber", "endpoint":  
"cx" } ] ]'>  
</oj-vb-fragment-param>
```

Each object requires different values, which are listed in the topic [Values to Use in Code for Standard Components in Tables, Metric Cards, and List Views](#).

5. If you're displaying a list with opportunity revenue, you must insert this additional parameter because opportunity revenue is a child object of opportunity:

```
<oj-vb-fragment-param name="child" value='[[ { "name": "ChildRevenue", "primaryKey": "RevId" } ] ]'></oj-  
vb-fragment-param>
```

6. Add the required **query** parameter, which specifies the saved search that's the source of the data in your list:

```
<oj-vb-fragment-param name="query" value='[[ [ { "type": "savedSearch", "params": [ { "key": "queryUuid",  
"value": "caf84b9d-b975-4b9d-b78e-41718b78f36e" } ] },  
$base.page.variables.dashboardFilters] ] ]'></oj-vb-fragment-param>
```

In this example, the source is a saved search with the ID `caf84b9d-b975-4b9d-b78e-41718b78f36e`. You can obtain the ID of saved searches by inspecting the code in the Chrome browser as described in the topic [How can I find the UUIDs for a saved search and the IDs for its filters in Oracle Sales in the Redwood User Experience?](#).

7. Optionally, you can sort the list. For example, enter the following to sort the records in ascending order by the last update.

```
<oj-vb-fragment-param name="sortCriteria" value='[[ [ { "attribute": "LastUpdateDate", "direction":  
"asc" } ] ]'></oj-vb-fragment-param>
```

8. Add the following **style** parameter. It applies the style for the dashboard layout. For details see the topic [How Information Displays in a Sales Dashboard Tab as You Add Sections](#)

```
<oj-vb-fragment-param name="style" value="[[ 'dashboard' ] ]"></oj-vb-fragment-param>
```

9. Add the **subviewLayoutId** parameter to use the `dashboardCardLayout`. The dashboard card layout is where you specify which fields you want to display in your list. Each object already includes the important fields.

```
<oj-vb-fragment-param name="panelCardLayoutId" value="[[ 'dashboardCardLayout' ] ]"></oj-vb-fragment-  
param>
```

10. Add the **title** parameter, to specify the title that displays on the list.

```
<oj-vb-fragment-param name="title" value="[[ 'Hardware Opportunities' ] ]"></oj-vb-fragment-param>
```

## Sample Code for Displaying a List of Opportunities

```
<template id="hardwareOpportunityList">  
<oj-vb-fragment bridge="[ [vbBridge]]" name="oracle_cx_fragmentsUI:cx-panel" class="oj-flex oracle-cx-  
fragmentsUI-cx-fragment-full-height">  
<oj-vb-fragment-param name="resource"  
value='[[ { "name": "opportunities", "primaryKey": "OptyId", "puid": "OptyNumber", "endpoint": "cx" } ] ]'>  
</oj-vb-fragment-param>  
<oj-vb-fragment-param name="query" value='[[ [ { "type": "savedSearch", "params": [ { "key": "queryUuid",  
"value": "caf84b9d-b975-4b9d-b78e-41718b78f36e" } ] },  
$base.page.variables.dashboardFilters] ] ]'></oj-vb-fragment-param>  
<oj-vb-fragment-param name="sortCriteria" value='[[ [ { "attribute": "LastUpdateDate", "direction":  
"asc" } ] ] ]'></oj-vb-fragment-param>  
<oj-vb-fragment-param name="style" value="[[ 'dashboard' ] ]"></oj-vb-fragment-param>  
<oj-vb-fragment-param name="panelCardLayoutId" value="[[ 'dashboardCardLayout' ] ]"></oj-vb-fragment-param>  
<oj-vb-fragment-param name="title" value="[[ 'Hardware Opportunities' ] ]"></oj-vb-fragment-param>  
</oj-vb-fragment>
```

```
</template>
```

## Sample Code for a List Of Opportunities with a Revenue Component

For an opportunity list with a revenue component, add the child parameter:

```
<oj-vb-fragment-param name="child" value='[[ {"name": "ChildRevenue", "primaryKey": "RevId"} ]]'></oj-vb-fragment-param>
```

Here's the sample code:

```
<template id="revenueList">
<oj-vb-fragment name="oracle_cx_fragmentsUI:cx-panel" class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height" bridge="[[ vbBridge ]]">
  <oj-vb-fragment-param name="resource" value='[[ {"name": "opportunities", "primaryKey": "OptyId", "puid": "OptyNumber", "endpoint": "cx" } ]]'></oj-vb-fragment-param>
  <oj-vb-fragment-param name="child" value='[[ {"name": "ChildRevenue", "primaryKey": "RevId"} ]]'></oj-vb-fragment-param>
  <oj-vb-fragment-param name="query" value='[[ [{"type": "savedSearch", "params": [{"key": "queryUuid", "value": "73b21b33-db08-4327-bf30-88c3c9e0f70d"} ]}] ]]'></oj-vb-fragment-param>
  <oj-vb-fragment-param name="style" value="[[ 'dashboard' ]]"></oj-vb-fragment-param>
  <oj-vb-fragment-param name="title" value="[[ 'Revenue' ]]"></oj-vb-fragment-param>
  <oj-vb-fragment-param name="panelCardLayoutId" value="[[ 'dashboardCardLayout' ]]"></oj-vb-fragment-param>
</oj-vb-fragment>
</template>
```

## Add Code to Display My List

Here's how to add the code for the **My List** component to the Sales Dashboard. My List includes data from all objects. For example, My List can include data from both opportunities and leads.

Here's the sample fragment code to add between the template tags.

```
<template id="myList">
<oj-vb-fragment name="oracle_cx_fragmentsUI:cx-heterogeneous-list"
class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height" bridge="[[ vbBridge ]]">
  <oj-vb-fragment-param name="query" value="[[ [{"type": 'qbe', params: [{key: '_userRelevantItems', value: true}]] ]]"></oj-vb-fragment-param>
  <oj-vb-fragment-param name="style" value="[[ 'dashboard' ]]"></oj-vb-fragment-param>
  <oj-vb-fragment-param name="title" value="[[ 'My List' ]]"></oj-vb-fragment-param>
  <oj-vb-fragment-param name="entities" value="[[ ['accounts', 'contacts', 'leads', 'opportunities' ]]"></oj-vb-fragment-param>
</oj-vb-fragment>
</template>
```

In your fragment code, be sure to update the values in the "entities" and "title" parameters, as necessary.

## Values to Use in Code for Standard Components in Tables, Metric Cards, and List Views

Here's a list of resource parameters and values to use in your Sales Dashboard code for the different standard objects.

## Opportunities

Resource parameter: `<oj-vb-fragment-param name="resource" value='[[ {"name": "opportunities", "primaryKey": "OptyId", "puid": "OptyNumber", "endpoint": "cx" } ]]'></oj-vb-fragment-param>`:

Name	Primary Key	Puid	Endpoint	Default List Template ID	Default Table Template ID
opportunities	OptyId	OptyNumber	cx	dashboardCardLayout	dashboardLayout

## Leads

Name	Primary Key	Puid	Endpoint	Default List Template ID	Default Table Template ID
leads	LeadId	LeadNumber	cx	dashboardCardLayout	dashboardLayout

Value to use for `<oj-vb-fragment-param name="resource" value=`:

```
[[ {"name": "leads", "primaryKey": "LeadId", "puid": "LeadNumber", "endpoint": "cx" } ]]
```

## Accounts

Name	Primary Key	Puid	Endpoint	Default List Template ID	Default Table Template ID
accounts	PartyId	PartyNumber	cx	dashboardCardLayout	dashboardLayout

Value to use for `<oj-vb-fragment-param name="resource" value=`:

```
[[ {"name": "accounts", "primaryKey": "PartyId", "puid": "PartyNumber", "endpoint": "cx" } ]]
```

## Contacts

Name	Primary Key	Puid	Endpoint	Default List Template ID	Default Table Template ID
contacts	PartyId	PartyNumber	cx	dashboardCardLayout	dashboardLayout

Value to use for `<oj-vb-fragment-param name="resource" value=`:

```
[[ {"name": "contacts", "primaryKey": "PartyId", "puid": "PartyNumber", "endpoint": "cx" } ]]
```

## Tasks

Name	Primary Key	Puid	Endpoint	Default List Template ID	Default Table Template ID
activities	ActivityId	ActivityNumber	cx	taskDashboardCardLay	taskDashboardLayout

Value to use for <oj-vb-fragment-param name="resource" value=:

```
[[ {"name": "activities", "primaryKey": "ActivityId", "puid": "ActivityNumber", "endpoint": "cx" } ]]
```

## Appointments

Name	Primary Key	Puid	Endpoint	Default List Template ID	Default Table Template ID
activities	ActivityId	ActivityNumber	cx	appointmentDashboard	appointmentDashboardLayout

Value to use for <oj-vb-fragment-param name="resource" value=:

```
[[ {"name": "activities", "primaryKey": "ActivityId", "puid": "ActivityNumber", "endpoint": "cx" } ]]
```

## Custom Objects

Name	Primary Key	Puid	Endpoint
<object>_c	Id	Id	cx-custom

Value to use for <oj-vb-fragment-param name="resource" value=:

```
[[ {"name": "<object>_c", "primaryKey": "Id", "puid": "Id", "endpoint": "cx-custom" } ]]
```

# Embed Content Created in Oracle Fusion Data Intelligence

Here's how you can embed content created in Oracle Fusion Data Intelligence.

Here's an example of the type of content you can embed:



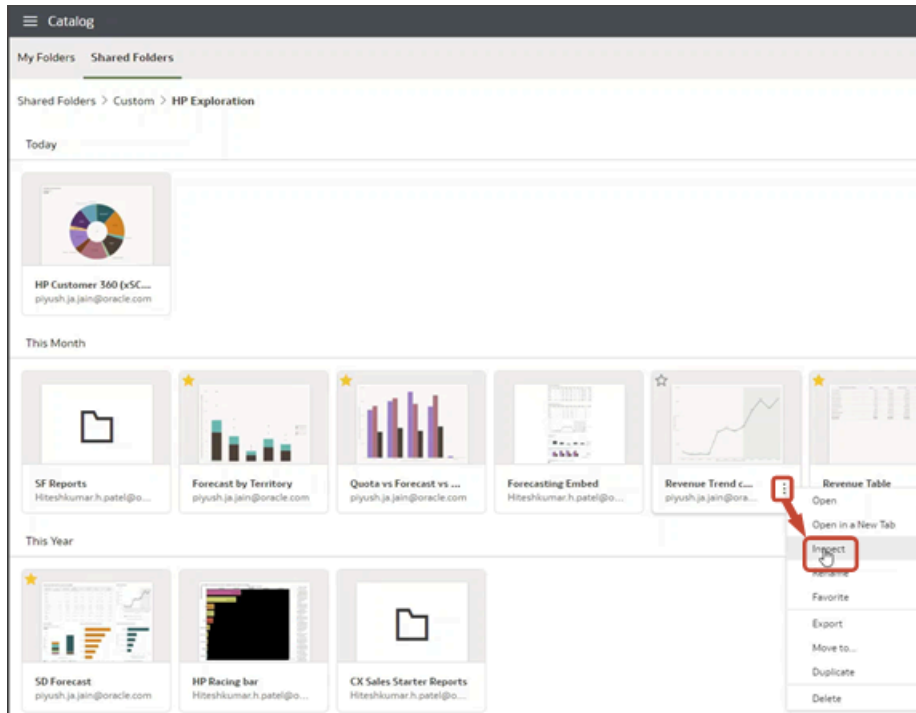
For more information about the Oracle Fusion Data Intelligence embedding framework, see the [Visualizing Data and Building Reports in Oracle Analytics Cloud](#) guide.

## Prerequisites

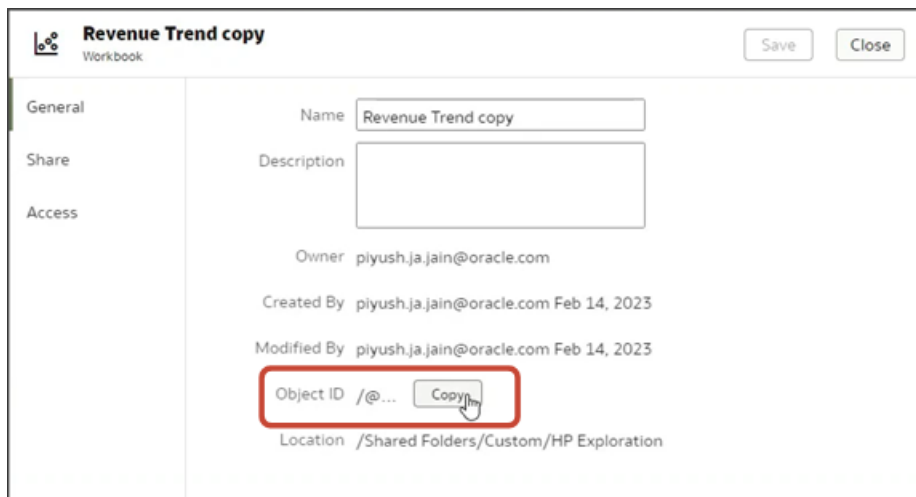
- You must register your domain as a safe domain. See the topic: [Typical Workflow to Use the JavaScript Embedding Framework with Oracle Analytics Content](#)



- Before adding an Oracle Fusion Data Intelligence (OFDI) component to the Sales Dashboard, you must retrieve the Object ID from your existing OFDI content:
  - a. Navigate to the OFDI host where the analytics workbook is saved.
  - b. Click the **Actions** > **Inspect**.



- c. Next to the Object ID, click **Copy**.



- d. Paste the Object ID, along with the Fusion Data Intelligence host URL, into a separate file for later use. For example:
  - i. Oracle Analytics Host:

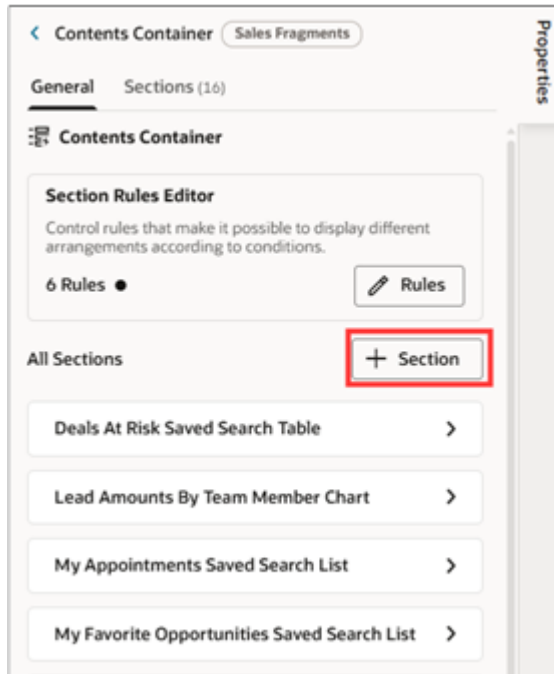
<https://oac01-gse00010001-px.analytics.ocp.oraclecloud.com/>

ii. Object ID:

`/@Catalog/shared/Custom/HP Exploration/Revenue Trend copy`

## Add an Oracle Fusion Data Intelligence component to the Sales Dashboard

1. Display the Sales Dashboard and open the Oracle Visual Builder Studio.
2. In the Properties pane Components tab, search for and click **Contents Container**.
3. On the Contents Container Properties pane, click the **+ Section** button.

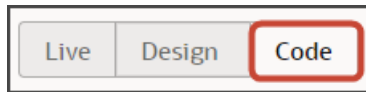


4. Select **+ New Section** at the top of the list.
5. In the Properties New Section pane, **Title** field, enter a title for the visualization component.

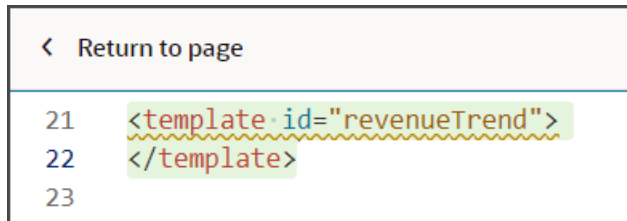
**Note:** The title is the name of the component and doesn't appear on the dashboard at runtime. The runtime title comes from the `dashboardTitle` parameter that you add to the visualization code.

6. Click the **Go to Designer** link.

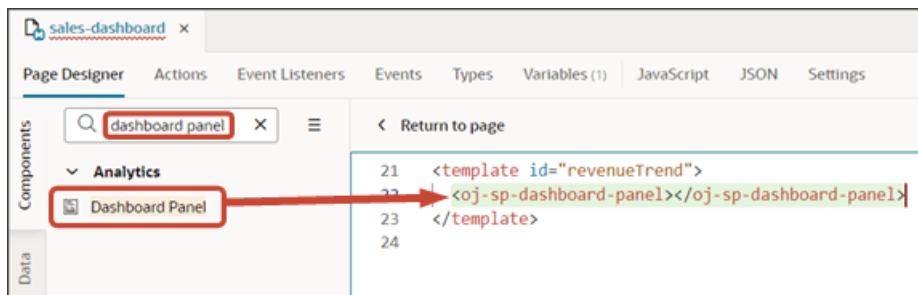
7. Click the **Code** button.



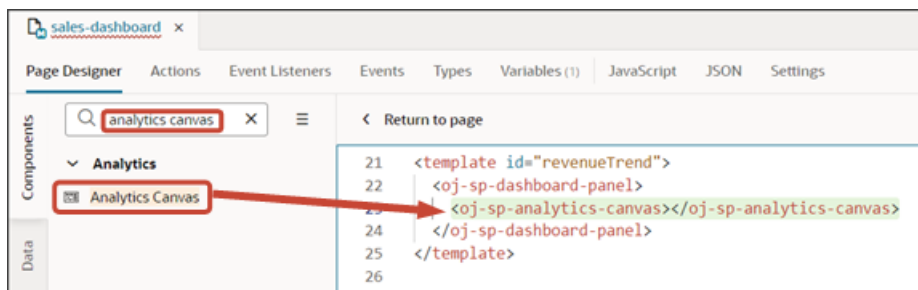
Your new **Revenue Trend** section displays with empty placeholder `template` tags.



8. On the Components palette, in the **Filter** field, enter `dashboard panel`.
9. Drag and drop the **Dashboard Panel** fragment to the template editor, between the template tags.



10. On the Components palette, in the **Filter** field, enter `analytics canvas`.
11. Drag and drop the **Analytics Canvas** fragment to the template editor, between the `oj-sp-dashboard-panel` template tags.



12. `<oj-oa-project host="https://oaxprodmgmtfawdev4-idbelglbntjz-ia.analytics.ocp.oraclecloud.com" project-path="/@Catalog/shared/Custom/HP Exploration/Revenue Table" b-show-filter-bar="false" class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height" compatibility-mode="yes" active-page="insight"> </oj-oa-project>`

13. In the template editor, click the `oj-sp-dashboard-panel` template tags.


```
< Return to page
21 <template id="revenueTrend">
22   <oj-sp-dashboard-panel>
23     <oj-sp-analytics-canvas></oj-sp-analytics-canvas>
24   </oj-sp-dashboard-panel>
25 </template>
26
```

14. On the Properties pane, in the **Panel Title** field, enter the title that you want to display on the dashboard for the analytic, such as `Revenue Trend`.

< Page | Dashboard Panel

General Events All

ID


Panel Title ?  fx ▼

Revenue Trend

Panel Subtitle

Class

Default slot

 Analytics Canvas

15. In the template editor, click the `oj-sp-analytics-canvas` template tags.

```
< Return to page
21 <template id="revenueTrend">
22   <oj-sp-dashboard-panel panel-title="Revenue Trend">
23     | <oj-sp-analytics-canvas></oj-sp-analytics-canvas>
24   </oj-sp-dashboard-panel>
25 </template>
26
```

16. On the Properties pane, in the **Oracle Analytics Host** field, enter the host URL that you saved, such as `https://oac01-gse00010001-px.analytics.ocp.oraclecloud.com/`.
17. In the Project Path field, enter the repository path of the project to render, such as `/@Catalog/shared/Custom/HP Exploration/Revenue Trend copy`.

**Note:** This is the Object ID of the Oracle Analytics Cloud workbook that you saved.

The screenshot shows the 'Analytics Canvas' component in the Properties pane. The 'General' tab is selected. The 'ID' field is empty. The 'Oracle Analytics Host' field is populated with 'https://oac01-gse00010001-px.analytics.ocp.oraclecloud.com/'. The 'Project Path' field is populated with '/@Catalog/shared/Custom/HP Exploration/Revenue Trend copy'. The 'Project Path' field has a blue border and a magnifying glass icon.

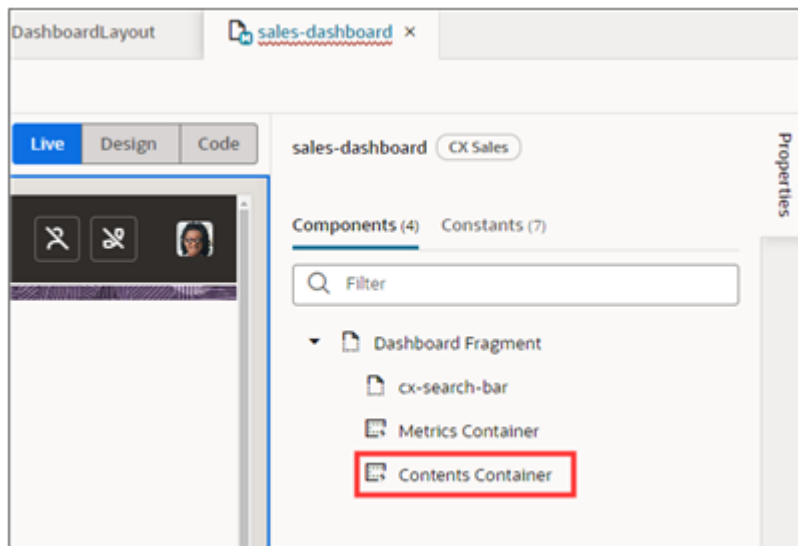
18. Now that you've created the dashboard panel component, add it to the appropriate sales dashboard.

## Add the Sections to the Tab's Contents Container

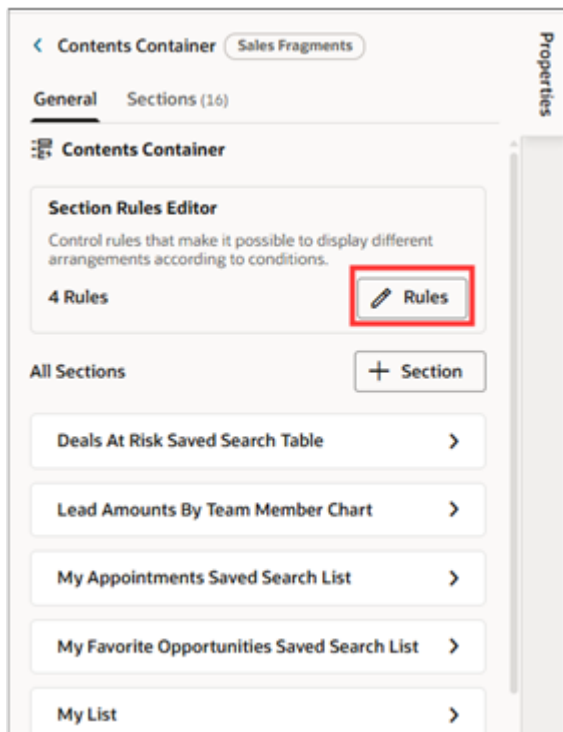
You can add up to 5 sections in a tab. Each section can display a table, a list, a visualization, or embedded Oracle Fusion Intelligence content. You can add sections you created, and sections provided by Oracle.

**Tip:** Before you start, read the topic *How Information Displays in a Sales Dashboard Tab as You Add Sections* to familiarize yourself with the content styles that determine how tabs are laid out as you add sections. If you add just one section, for example, that section always takes up the whole tab. As you add more sections using the default layout style, the first panel always remains bigger than the rest, but shrinks to make room for the others.

1. After you've created the sections and added the appropriate code, click **Return to Page**.
2. In the **sales-dashboard** Properties section, Components tab, search for **Contents Container**.
3. Click the **Contents Container** link

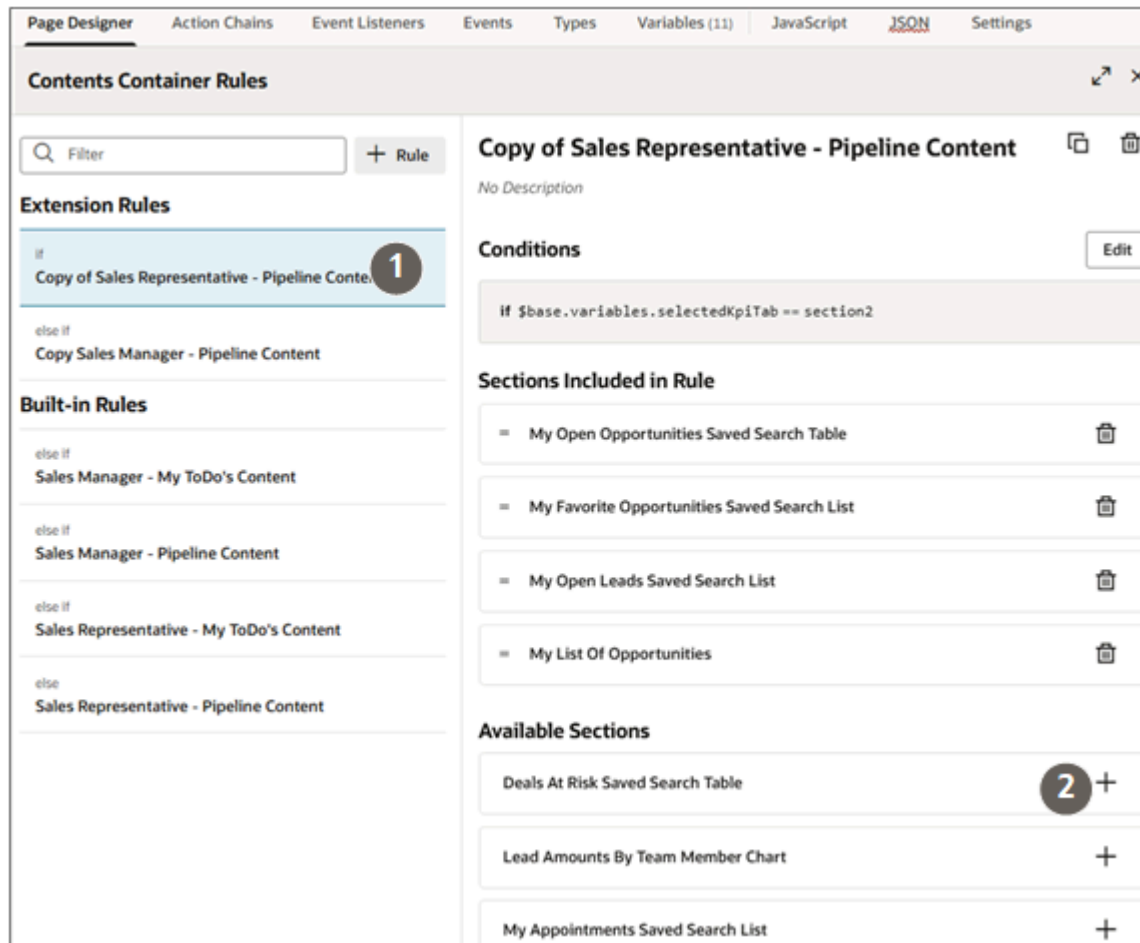


4. Click the **Rules** button.



5. Under the **Extension Rules** heading, select the appropriate rule (the copy of the contents container you made).

- Under the **Available Sections** heading in the right-hand pane, click the **Add Section** (the plus sign) button to add a section.



**Note:** The contents container can include no more than 5 sections.

The section is added as the last section under the **Sections Included in Rule** heading.

- You drag the section to a different position.
- You're now ready to preview the new tab. See the topic *Preview Your Changes and Save Them to the Git Repository*.

## Predefined Content That You Can Add to Your Dashboard Tabs

Oracle provides you with several predefined tables, lists, and visualizations that you can add to your Sales Dashboard tabs.

You can add these components to any custom Contents Container

### Lists

- My Appointments saved search list
- My Favorite Opportunities saved search list
- My List

- My Open Leads saved search list
- My Open Opportunities saved search list
- My Open Tasks saved search list
- My Overdue Tasks saved search list
- My Team's Open Leads saved search list
- My Team's Open Tasks saved search list
- My Team's Overdue Tasks saved search list

#### Tables

- Deals At Risk saved search table
- My Open Opportunities saved search table
- My Team's Opportunities saved search table
- Tasks Due in the Next 30 Days saved search table

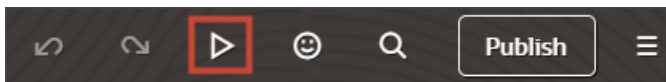
#### Charts

- Lead Amounts by Team Member chart
- My Team's Performance chart

## Preview Your Changes and Save Them to the Git Repository

As you configure your sales dashboard, you can preview your changes and then save them to the Git repository.

1. Test your sales dashboard edits, by previewing your application extension:
  - a. Click the **Preview** button to see your changes in your runtime test environment.



- b. The resulting preview link will be:

`https://<servername>/fscmUI/redwood/cx-sales/dashboards/sales-dashboard`

- c. Change the preview link as follows:

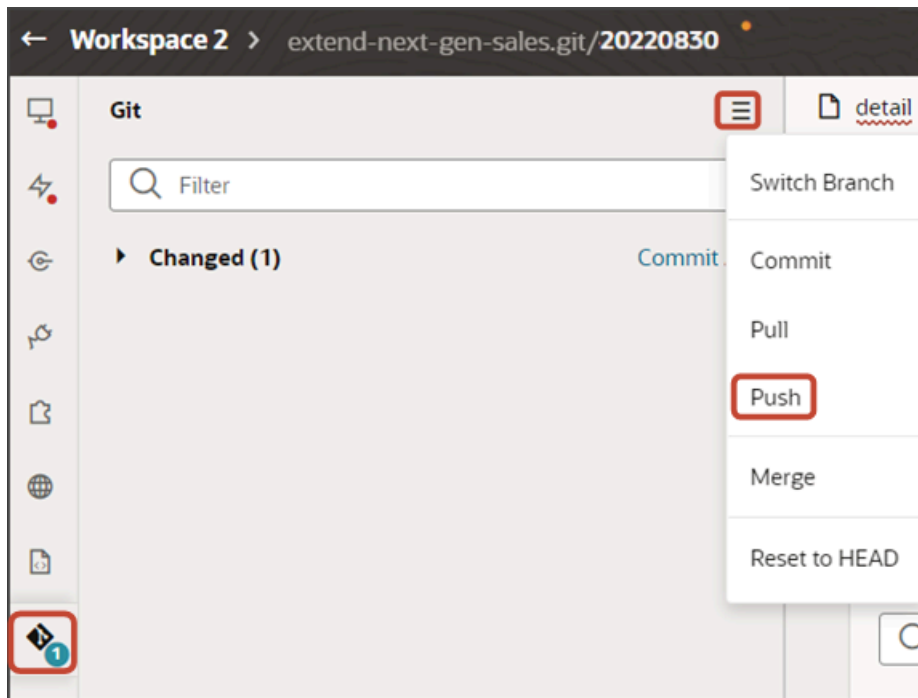
`https://<servername>/fscmUI/redwood/cx-sales/application/container/dashboards/sales-dashboard`

2. If you've



3. Save your work by using the **Push Git** command.

Navigate to the Git tab, review your changes, and do a Git push (which does both a commit and a push to the Git repository).



## How Information Displays in a Sales Dashboard Tab as You Add Sections

A sales dashboard can include anywhere from 1 to 5 sections in each of the tab pages you create. As you add sections, the display adjusts according to an underlying content style.

You can choose between 2 content styles:

- The default **above-fold** content style minimizes vertical scrolling by adjusting the size of the first section as you add more.
- The alternate **hero-plus** content style always displays the first section to the full width and height. All other sections appear underneath.

### The Default Above-Fold Content Style

In the **above-fold** style, the first panel is the biggest section, but the panel shrinks horizontally and vertically as you add sections. Salespeople don't have to scroll if they have a standard-sized monitor.

Here's how the above fold layout changes depending on the number of sections you specify in the container.

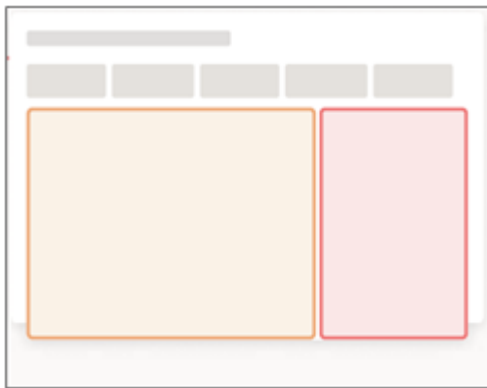
- 1 section

The section takes up the full width and height of the content region of the tab.



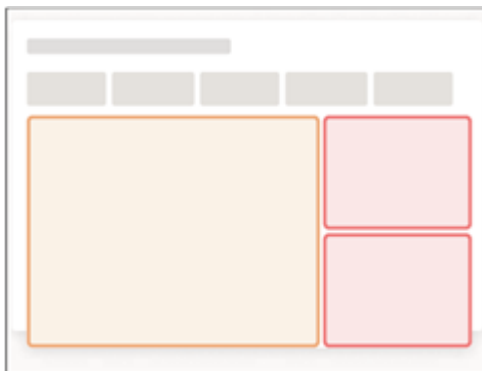
- 2 sections

The first section takes up two-thirds of the width at full height and the second section takes up the rest.



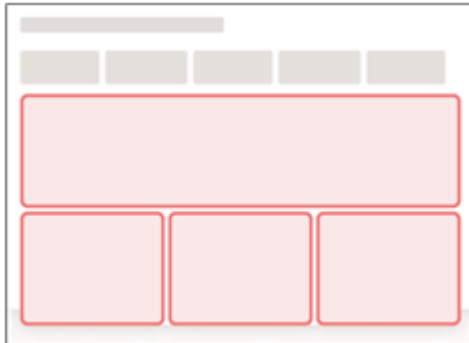
- 3 sections

The first section takes up two-thirds of the width at full height and the second and third sections split up the remaining third horizontally.



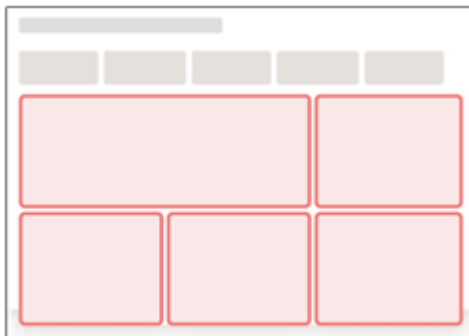
- 4 sections

The first section takes up the full width of the dashboard but only half of the height. The three other sections split the remaining space below the first section.



- 5 sections

The first section takes up two-thirds of the width at half the height, The second section follows with one third of the width and at half the height. The three remaining sections split the remaining space below the first section.



## The Alternate Hero-plus Layout

The **hero-plus** layout displays the first section, the most important information, over the full width and height of the available space. As you add sections, they appear below. Salespeople may have to scroll down to see them.

- 1 section

The first section takes up the full width and height of the space available.



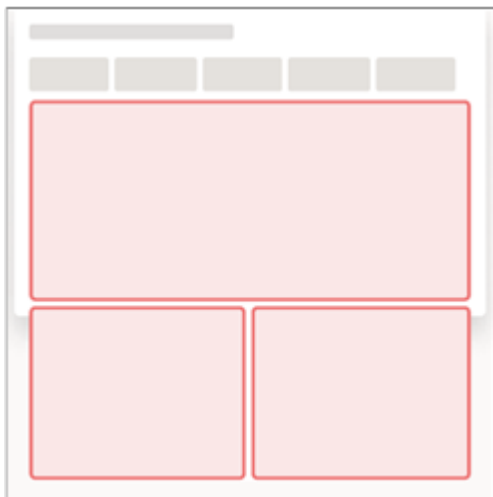
- 2 sections

The first section takes up the width at full height. The second section displays below.



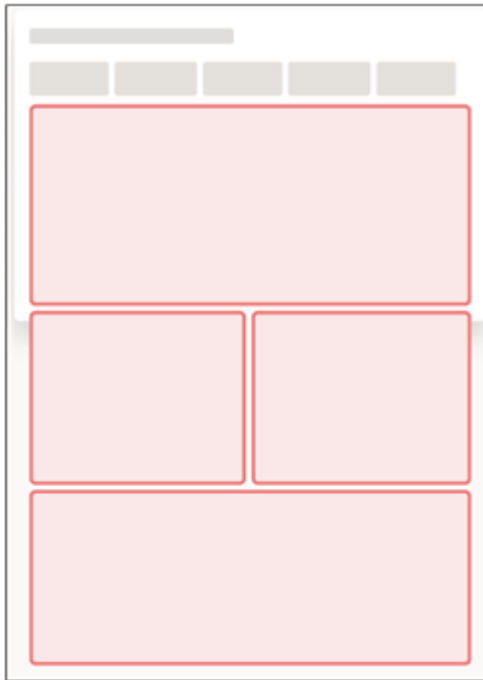
- 3 sections

The first section takes up the width at full height. The remaining 2 sections display below next to each other, each at half of the width.



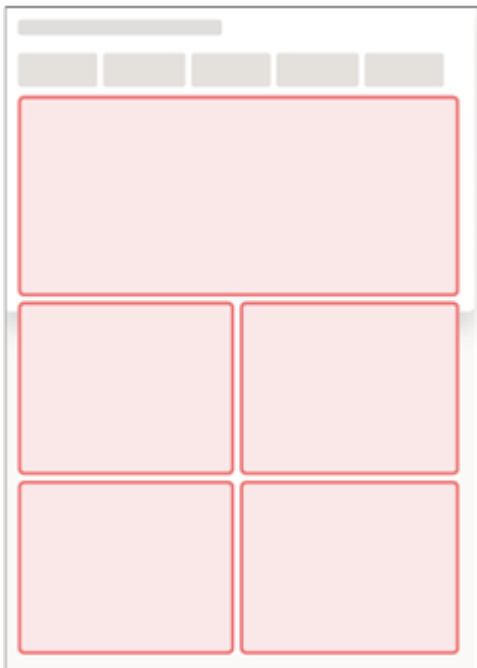
- 4 sections

The first section takes up the width at full height. The next 2 sections display below, each at half of the width. The fourth section appears at full width below.



- 5 sections

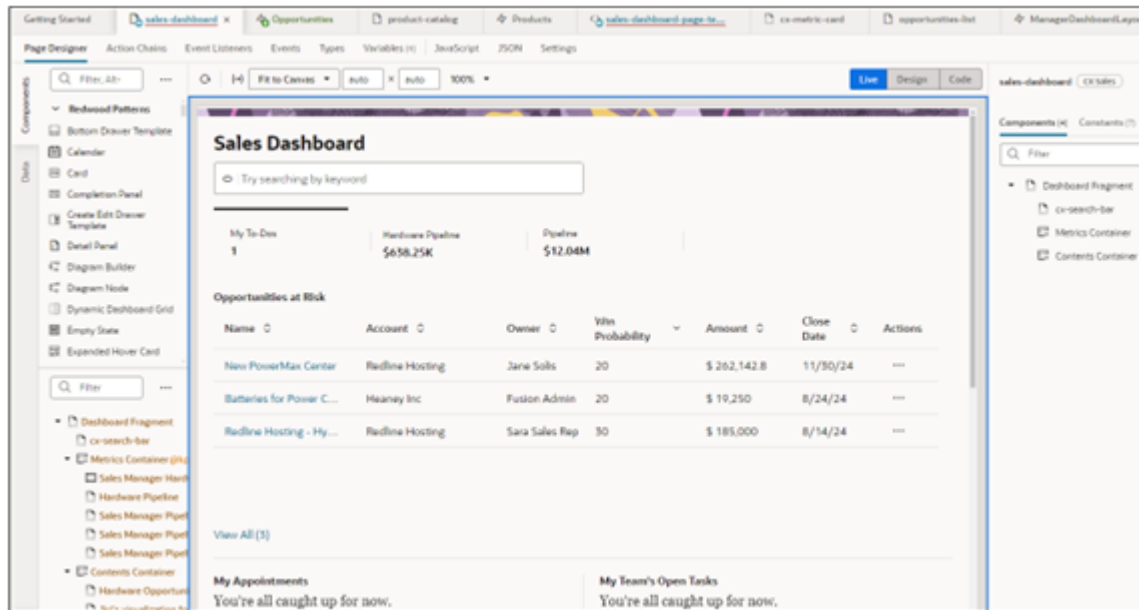
The first section takes up the full width and height of the dashboard. The rest of the sections appear underneath at half the width.



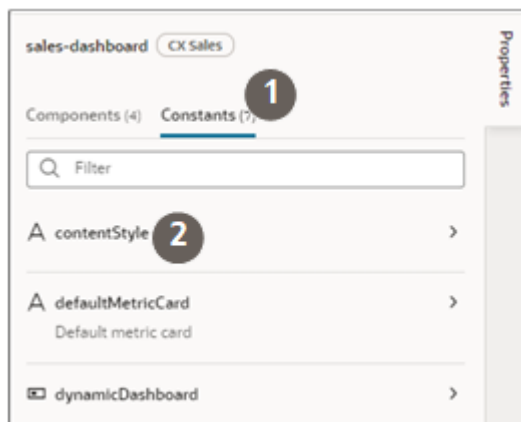
## Switch Between the Two Sales Dashboard Content Styles

Here's how to switch to the alternate hero-plus style or back to the default. The hero-plus style gives priority to the first section in the contents container and displays it over the full width and height of the available space.

1. Edit the Sales Dashboard page in Oracle Visual Builder Studio.

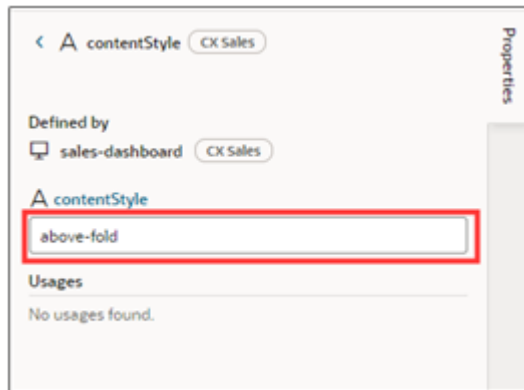


2. In the Properties pane on the right, click **Constants** (the tab highlighted by callout 1 in the following screenshot).



3. Click **Content Style** (callout 2).

4. Switch content styles by entering either **hero-plus** or **above-fold** in the **ContentStyle** field.



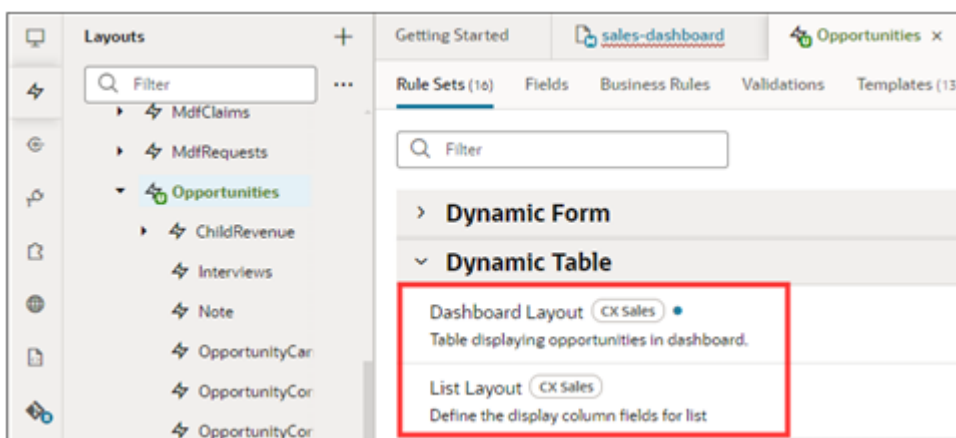
## Layouts That Specify What Fields Display in Tables and Lists and How

The contents container specifies the source of information for a table and a list. You use a layout to specify which fields display as columns in the table or a list. The layouts determine which fields display, their order, and their relative widths to other fields.

**Note:** If you created your table as a visualization, this topic doesn't apply to you. That's because you specify the columns you want to display in the tabular chart visualization itself.

There are separate layouts for different sales objects. For opportunities, the 2 relevant sales dashboard layouts are listed under the **Dynamic Table** heading:

- **Dashboard Layout**, which specifies the columns in tables.
- **List Layout**, which defines the fields in lists.



You can create different layouts for different containers.

To understand how to specify the fields in layouts, see the example provided in *Specify the Columns in a Sales Dashboard Table and Their Widths*. You can edit list layouts in the same way.

## Specify the Columns in a Sales Dashboard Table and Their Widths

To specify which columns appear in your sales dashboard table and control their width, you copy and configure the dynamic table Dashboard Layout.

1. In Oracle Visual Builder Studio, click the Layout tab and open the CX Sales node.
2. Scroll down or search for **Opportunities**.
3. Click **Opportunities** to display the opportunity layouts.
4. In the **Dynamic Table** section, click **Dashboard Layout**.
5. Duplicate the **isDefaultDashboardLayout**.
6. Open the copy.
7. Select and drag the fields you want to display from the left pane to the **Select fields to display** pane.
8. You can reorder the columns in your table by using the handles in front of each field.
9. You can adjust the width of each field by clicking on the field. The width controls display as percent of the table length.

For example, the opportunity **Name** width is set to 19% by default, so the name column will always display at 19% of the total width of the table at the default window size.

If the user views the dashboard in a smaller window, then any field without a width value automatically adjusts, but the name column will stay the same width.

- Clearing all of the widths for all the columns causes the table to adjust all of the columns.
- If you add more columns that the width of the table supports or the percent entries add up to more than 100%, then the table displays a scroll-bar.

**Note:** Although the **Minimum Width** and **Maximum Width** fields display 33% by default, these aren't actual values. The percentage value is merely a placeholder.

## How to Find the UUIDs for Saved Searches and IDs for Its Filters

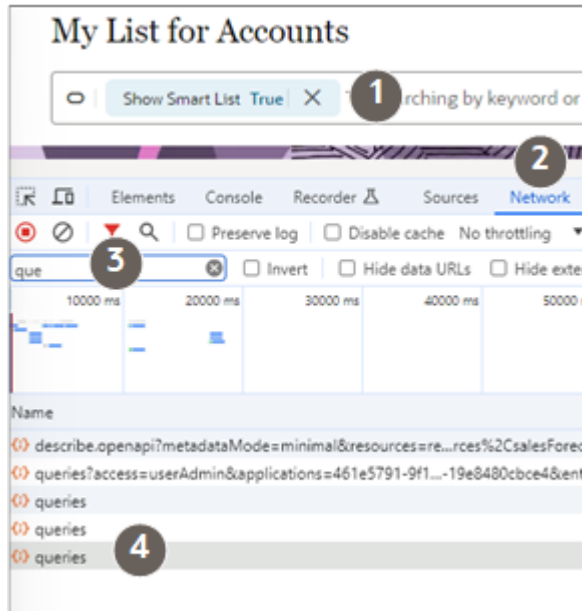
Here's how to find the Universally Unique Identifier (UUID) for a saved search and the various IDs of its query parameters in Oracle Sales in the Redwood User Experience. The IDs are required to reference the saved search and filter parameters in Sales Dashboard layouts, including metric cards and tabular and list views. The IDs are also used in Oracle Transactional Business Intelligence analyses. You'll need an ID to filter by opportunity sales method and sales stage, for example. A UUID is a 36-character alphanumeric string that can be used to identify information, such as rows of data within a database table.

Here's how to find the UUID for a saved search:

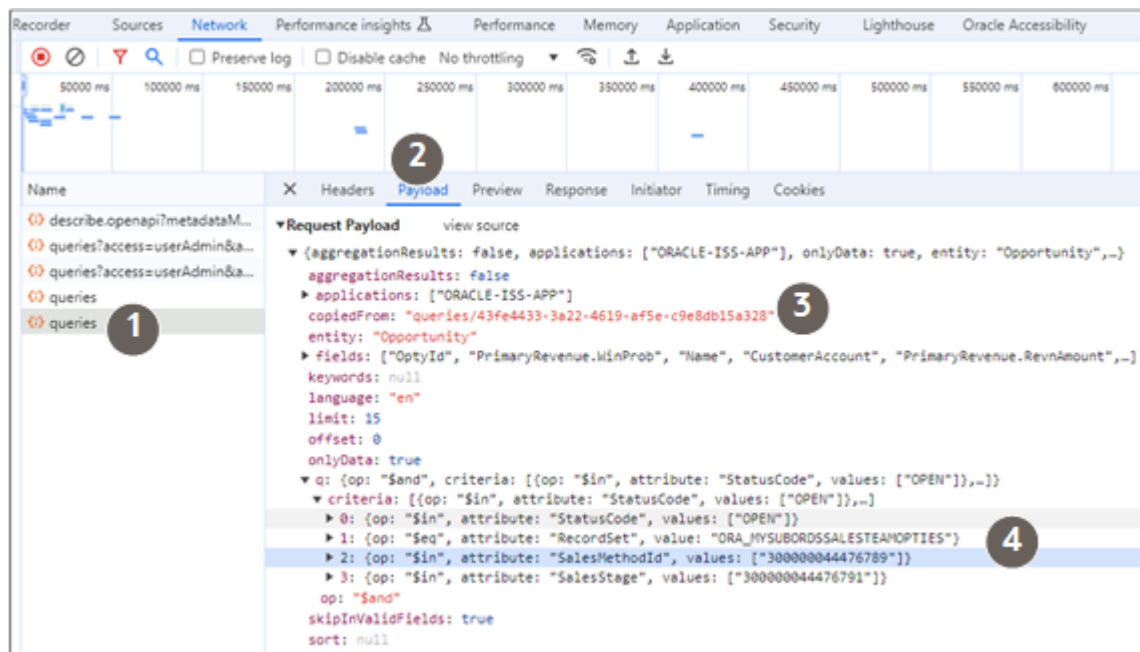
1. Open the list page of the object in the Chrome browser. For example, if you need the UUID for accounts, for example, click **Accounts** on the home page.
2. Click in the action bar (callout 1 in the following screenshot) and select any saved search other than the one you're looking for.
3. Right-click the page and select **Inspect** from the Chrome browser menu.
4. Click the **Network** tab (callout 2).



5. Reload the browser page.
6. In the action bar, switch to the saved search you want.
7. Click the **Network** tab again.
8. Enter **que** in the filter field to filter out the queries (callout 3).
9. Select the last **queries** entry in the list (callout 4).



10. With the last queries item selected (callout 1 in the following screenshot), click the **Payload** tab (callout 2).
11. The UUID is the string of characters following **queries/** in the **copiedFrom:** line. For example: **93afbf7ec-658f-4718-b38c-95f8f5e6c431** (highlighted by callout 3).

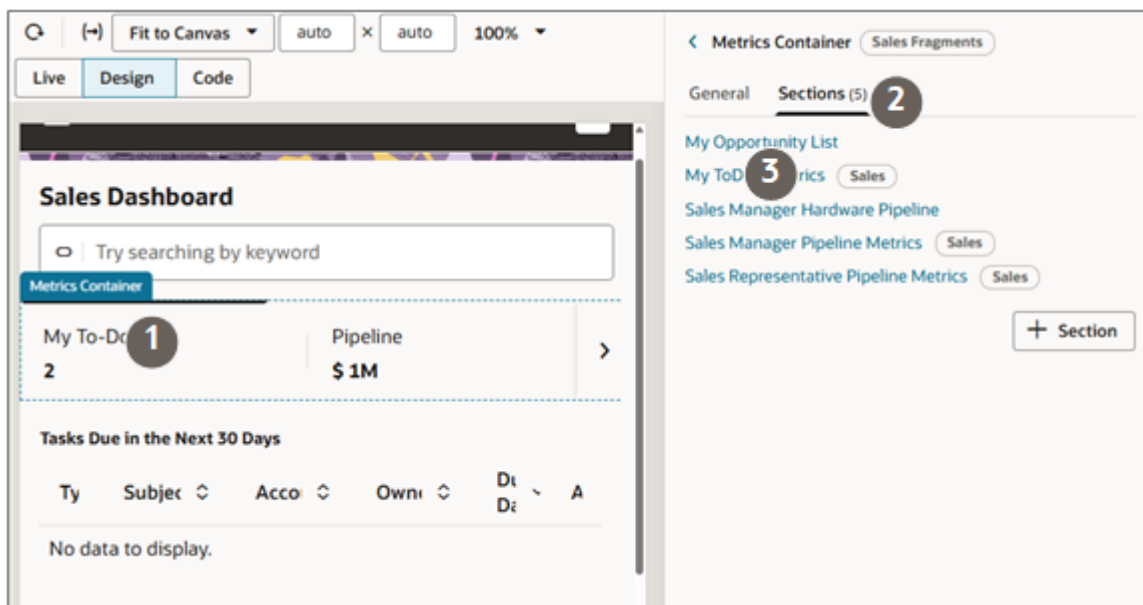


12. To view the IDs of the query parameters, open the **q:** list (callout 4). For example, here's a sample sales method ID: `{op: "$in", attribute: "SalesMethodId", values: ["300000044476789"]}`

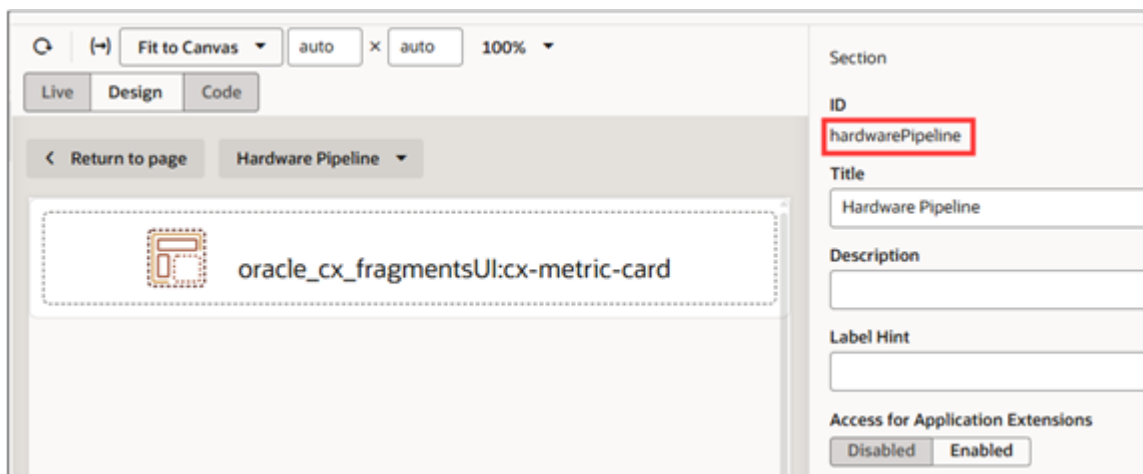
## Specify which Dashboard Tab Displays by Default

You can specify which sales dashboard tab is selected and displays when a user opens the Sales Dashboard by setting the constant **defaultMetricCard** in Oracle Visual Builder Studio.

1. Open the Sales Dashboard in VB Studio.
2. Obtain the ID of the metric card:
  - a. On the **sales-dashboard** tab, click the **Page Designer** subtab.
  - b. In the Design mode, click the **Metrics Container** section.
  - c. Click the **Sections** tab.

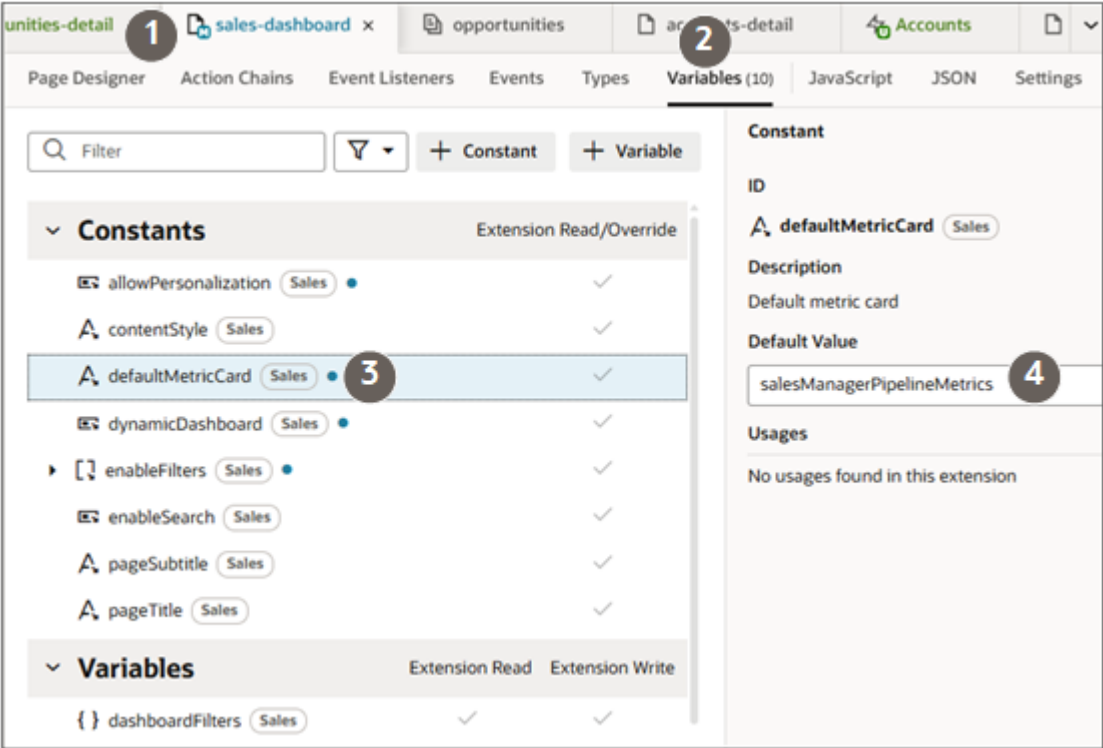


- d. copy the ID.



3. On the **sales-dashboard** tab, click the **Variables** subtab.
4. Click the **defaultMetricCard** constant.

5. In the **Default Value** field, enter the ID of the metric card for the tab you want to show as the default.





# 6 Enable Global Search and Filtering

## The Dual Functionality of the Sales Dashboard Ask Oracle Bar

The Sales Dashboard Ask Oracle bar serves two different and unrelated functions: keyword searches and the filtering of the reports in the sales dashboard itself.

Salespeople use the Ask Oracle bar to:

- Search by keyword through all the sales information they can access, including activities, emails, leads, opportunities, accounts, and other business objects.
- Filter the information in the active tab of the sales dashboard. For example, they can display data for a narrower time period or compare the performance of one manager to another.

### Keyword Search

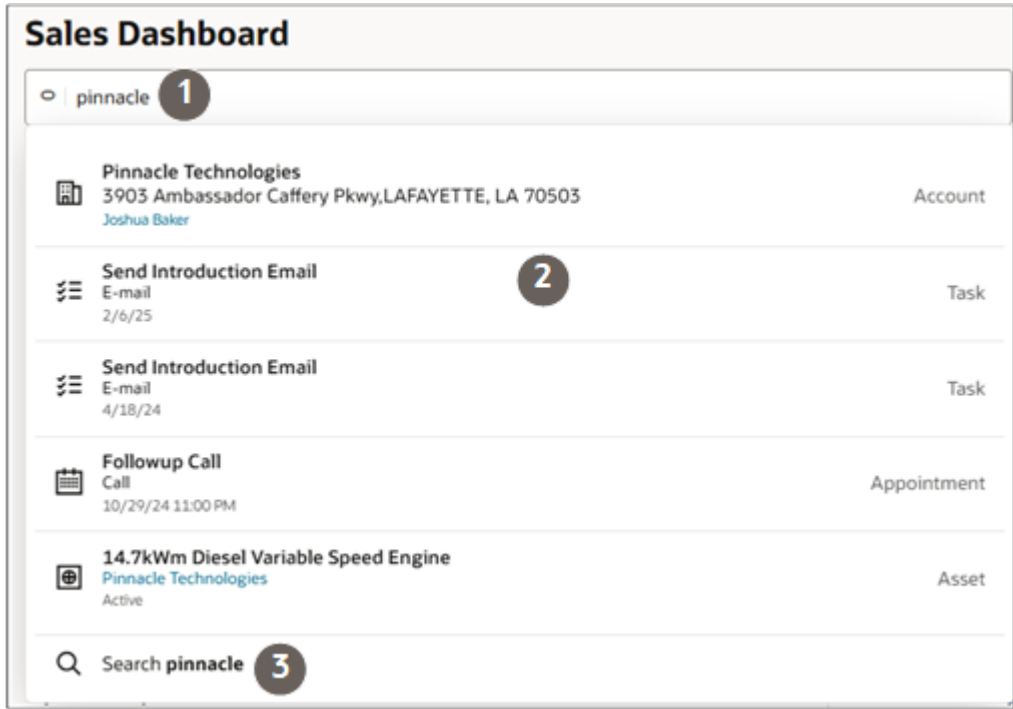
Here's how to search by keyword:

1. Enter the keyword in the Ask Oracle bar.
2. If you don't see the item you're looking for in the list, click **Search** to view all the results, filter them, and take actions.

#### Keyword Search

Callout	Description
1	Enter keyword.
2	View list of most often-accessed items matching the keyword. You can open individual items by clicking on links.

Callout	Description
3	Click <b>Search</b> to view all results and take actions on them.



3. In the Search results page, you can add different search terms and filter by object.

**Key Features of the Search Results Page**

Callout	Description
1	You can update the initial keyword.
2	Search results are classified by object.

# Search Results

1

X

Try searching by keyword or add a filter

3

Filter by Object

---

Pinnacle Tech...

3903

Ambassador

Caffery

Pkwy.LAFAYETT

E, LA 70503

High Technology

2

Account

...

Joshua Baker

<http://www.Pi...>

---

Send Introduc...

2/6/25

Not started

...

E-mail

Marta Studinger

Task

...

---

Send Introduc...

4/18/24

Not started

...

E-mail

Sara Sales Rep

Task

...

---

Followup Call

Call

Fusion Admin

10/29/24 11:00 PM

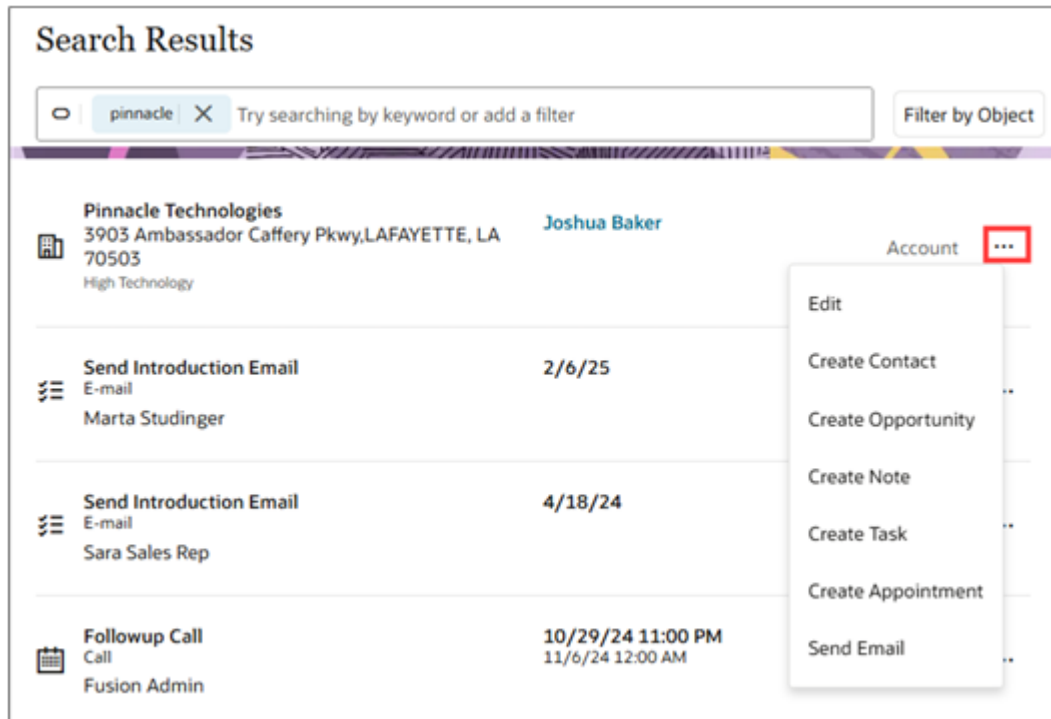
11/6/24 12:00 AM

Appointment

...

4. You can take actions directly on the search results by clicking the three dots **Actions** icon highlighted in the screenshot.

For example, you can edit an account record, and create contacts, opportunities, notes, tasks, appointment for the account. And you can and you can send an email.



## Filter the Sales Dashboard Content

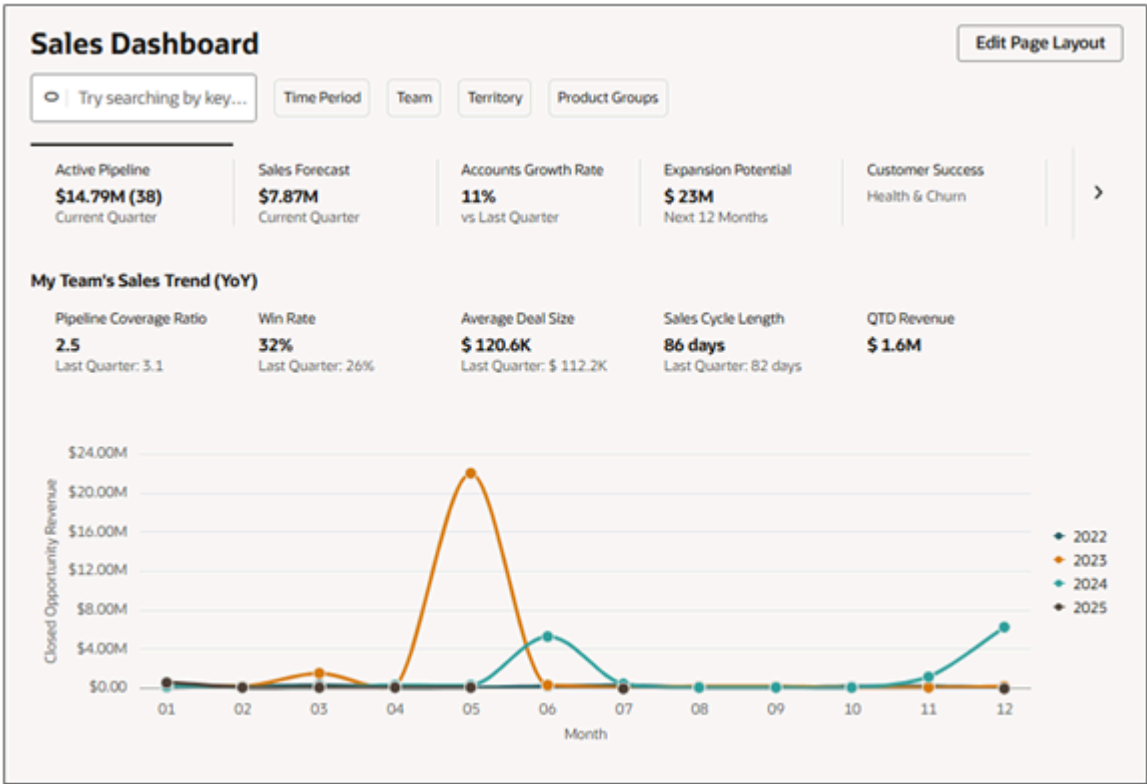
Salespeople can filter the contents of the dashboard to focus on a subset of the information.

Four filters are available: Time Period, Team, Territory, and Product Groups. The filters display as buttons and are also available for selection in the search box itself.

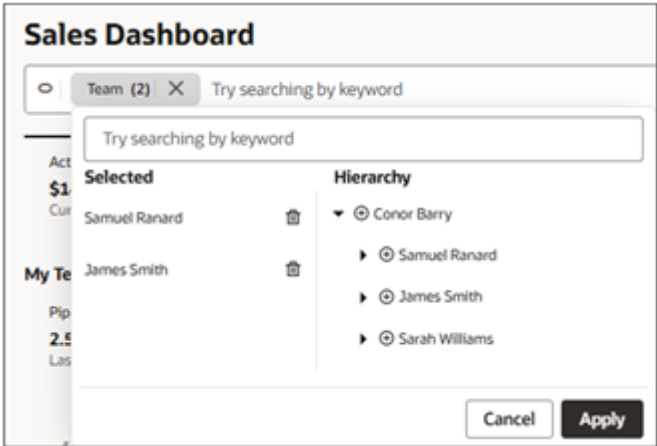


Here's a screenshot of a dashboard showing the active pipeline for the whole team, both as a metric and a visualization.



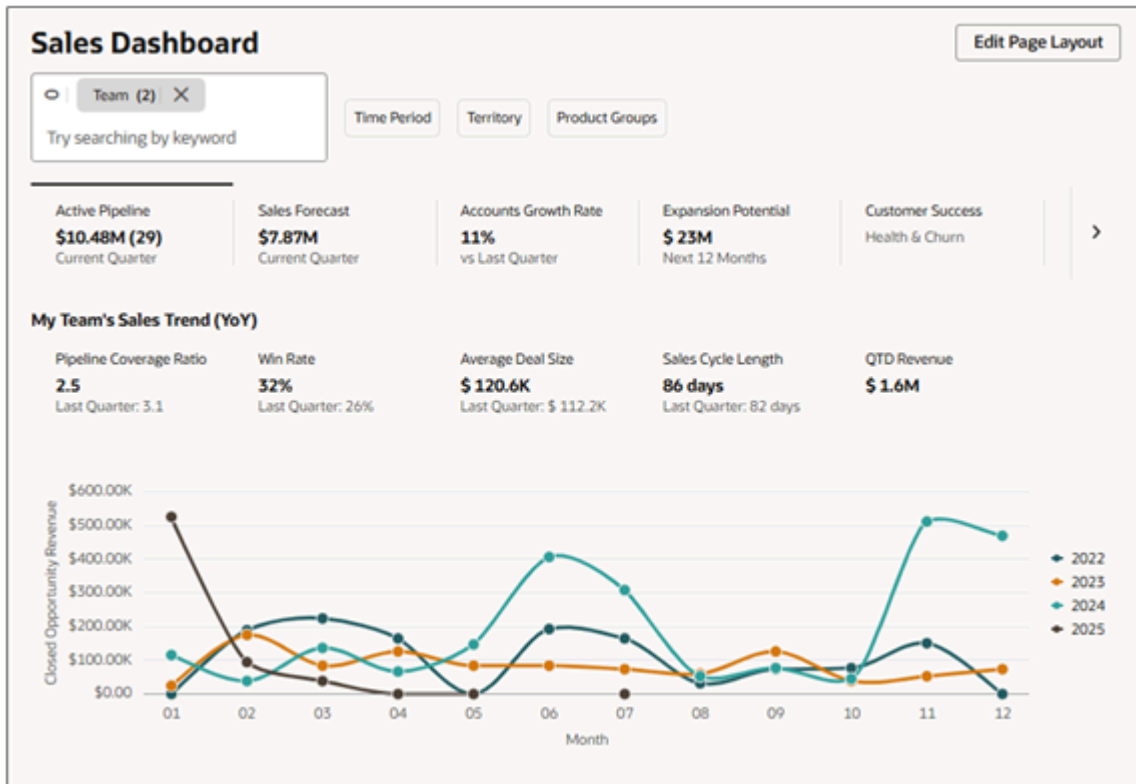


You can view the totals of the active pipeline for just 2 managers by clicking the **Team** filter and selecting the managers.



Both the metric and the visualization now display data for the 2 managers.

**Note:** If you're creating visualizations from OTBI analyses, you must make sure that those analyses include prompted criteria for the filters you enable.



## Enable Custom Object Search in the Sales Dashboard

Perform the following setup to enable search of custom objects using the search bar in the Sales Dashboard. The search bar in Sales Dashboard provides the same function as the Global Search box in the Classic UI.

**Note:** This setup isn't required for standard sales objects, but you change which fields you want to display in the search results for each object, by copying its search card layout and editing the copy. For details, see [How can I change which fields display in Sales Dashboard search results for standard objects?](#)

### Prerequisites

1. Create the custom object and fields in a sandbox using Application Composer.

Note the following when creating fields:

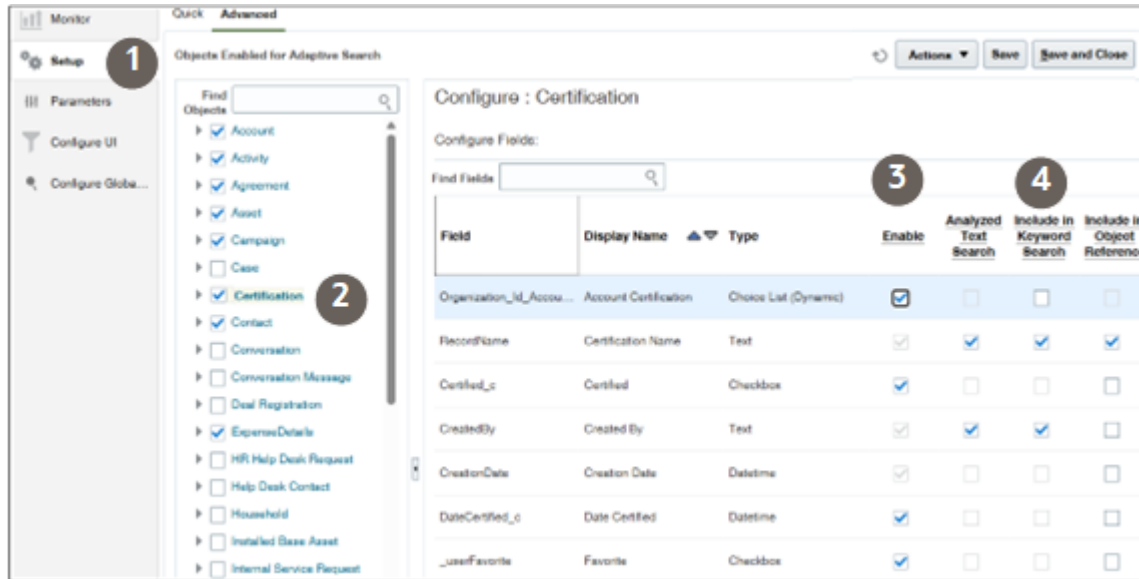
- Make sure the **Include in Service Payload** option is selected. This option enables the field for the REST API.
- The **Searchable** option applies only to Classic Sales UI with CRM Search.
- A checkbox field appears as a switch in the Redwood UI with a value of either on or off.

2. Publish the sandbox.

3. In the Setup and Maintenance work area, open the **Configure Adaptive Search** task:
  - Offering: Sales

- Functional Area: Foundation
  - Task: Configure Adaptive Search
4. On the Configure Adaptive Search **Setup** > **Quick** tab, select the custom object to enable for search.
  5. Click the **Setup** > **Advanced** tab.
  6. Click the custom object in the left pane.
  7. Select **Enable** for all of the fields you want to expose in the Redwood UI.
  8. Select **Include in Keyword Search** option for fields you want to enable for search.

**Note:** Only fields that display as text are searchable. For example, you can't search on date fields or check boxes.



9. From the Actions menu, select **Partial Publish**.
10. Select the custom object and click **Proceed with Partial publish**.
11. You can monitor the progress of the publish process on the Monitor tab.
12. After the process completes, create a sandbox with Application Composer and enter the sandbox.
13. In Application Composer, click **CX Extension Generator**.
14. Create the UI and smart actions for the object as described in the topic [Create a New Application Using the CX Extension Generator](#). The CX Extension Generator automatically creates the search layout template for your search setup.

**Note:** Unless this is your first time using the CX Extension Generator in this environment, you must import your configurations from Oracle Visual Builder Studio. Creating a new extension, can delete your previous work.

15. Export your changes from CX Extension Generator and import them into VB Studio.
16. Make sure that the user testing the global search has access to the Sales Dashboard. By default, the application includes sales dashboards for sales manager and sales representative job roles. The user must have one of those job roles to test the search.
17. Create some records that you can test the search with.

## Set Up Global Search

1. Open the **Configure Adaptive Search** task in the Setup and Maintenance work area:

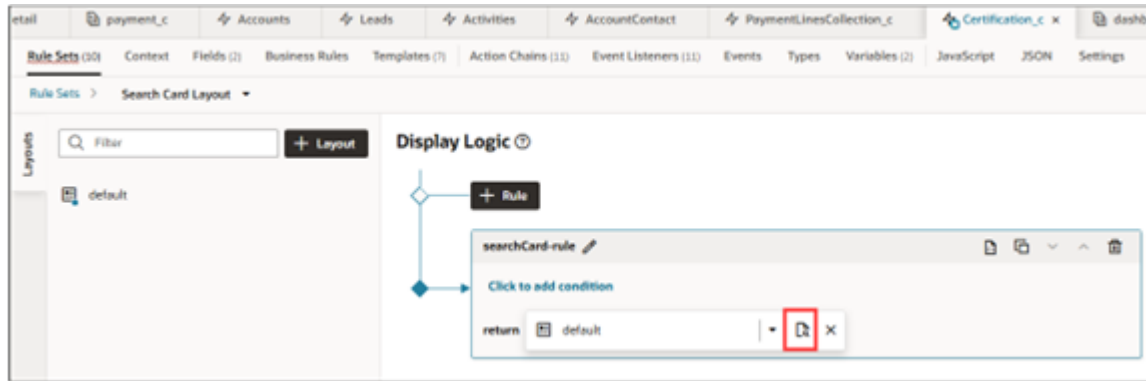
- Offering: Sales
  - Functional Area: Sales Foundation
  - Task: Configure Adaptive Search
2. Click the **Configure Global Search** tab.
  3. Click the custom object name.
  4. Select the **Display in UI** option.
  5. In the Configure Search Results section, click **Edit** for the **Title** field and select the object name.

**Note:** The entries in the Configure Search Results section specify which fields display in Global Search for the Classic UI. They don't apply to the Redwood UI. However, entering a title is required.

6. Click **Save and Close**.

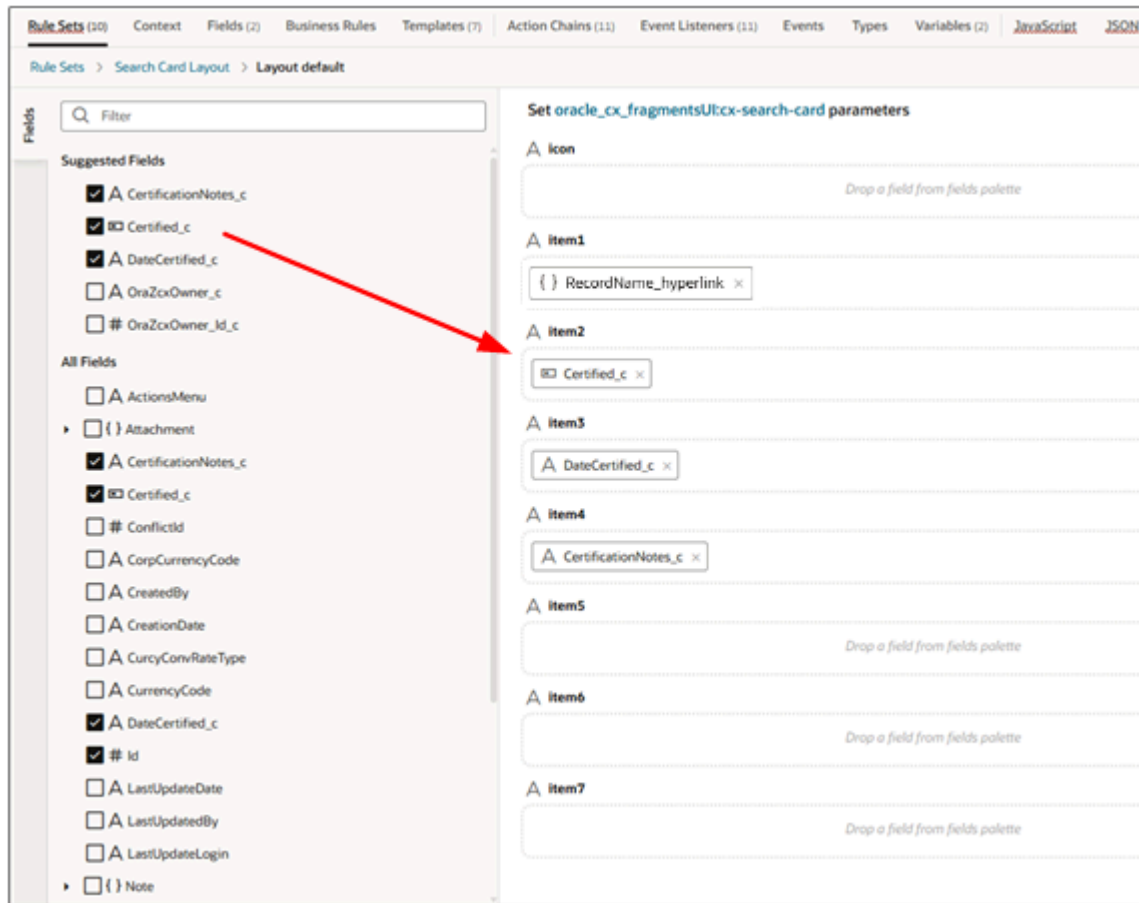
7. Open the Sales Dashboard in the Sales application.
8. Open Oracle Visual Builder Studio (**Your initials** > **Settings and Actions** > **Edit Page in Visual Builder Studio**).
9. In VB Studio, click the **Layouts** tab.
10. In the right pane **Rule Sets** subtab, click the **Search Card Layout** entry.

11. In the default Search Card Layout, click **Edit**.



12. In the Search Card Layout, move the fields you want to display in the search results from the list to the right-hand pane.

**Note:** To allow users to drill down from search results into individual records, be sure to add the **RecordName\_hyperlink** field instead of RecordName.



**Note:** Don't move fields into the Icon field. You can't add icons on this page.

In the runtime application, the search results are divided into 3 columns. The fields in Item 1 to Item 3 in the layout display in the first column, Item 4 and Item 5 in the second, and Item 6 and Item 7 in the third.

Each row of search results also includes the object name and a list of actions (not part of the Search Card Layout).

Search Results				
<input type="text" value="email"/> Try searching by keyword or add a filter <span>Filter by Object</span>				
1	<b>Followup demo</b> Demo Gupta Atanu	11/20/24 6:00 PM 11/20/24 7:00 PM		Appointment ...
2	<b>Send Followup Email</b> E-mail Gupta Atanu	11/27/24	Not started	Task ...
3	<b>Send Intro Email</b> E-mail Gupta Atanu	12/13/24	Complete	Task ...
	<b>Send an Intro Email</b> E-mail Gupta Atanu	12/14/24	Complete	Task ...

13. Click the **Sources** tab.
14. Find and click **catalog.json**.
15. Click the **JSON** tab in the right-hand pane.

```

1 {
2   "backends": {},
3   "services": {
4     "cx-custom": {
5       "openapi": "3.0.0",
6       "info": {
7         "x-vb": {
8           "serviceType": "adf-rest",
9           "publicAccess": [
10            "oracle_cx_salesUI"
11          ]
12        }
13      },
14      "servers": [
15        {
16          "url": "vb-catalog://backends/base",
17          "variables": {
18            "REST-Framework-Version": {
19              "default": "9"
20            }
21          }
22        }
23      ]
24    }
25  }
26 }
    
```

16. Add the following code after **"serviceType": "adf-rest"**:

```

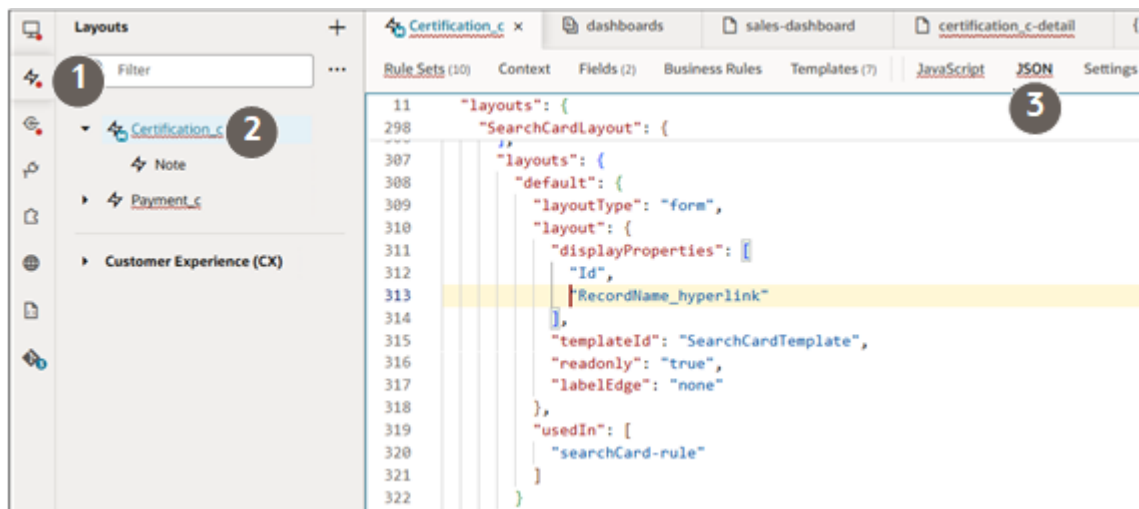
"publicAccess": [
  "oracle_cx_salesUI"
]
    
```

]

The resulting code looks like this:

```
"backends": {},
"services": {
  "cx-custom": {
    "openapi": "3.0.0",
    "info": {
      "x-vb": {
        "serviceType": "adf-rest",
        "publicAccess": [
          "oracle_cx_salesUI"
        ]
      }
    }
  }
},
```

17. Click **Layouts** > **<your custom object>** > **JSON**.



18. In the JSON subtab, find **SearchCardLayout**.  
19. Under **displayProperties**, following the **"Id"** entry, add the following:

```
  "RecordName_hyperlink"
```

The resulting code looks like this:

```
"layout": {
  "displayProperties": [
    "Id",
    "RecordName_hyperlink"
  ],
}
```

20. In the **"RecordName\_hyperlink"** row add **: "hyperlinkTemplate"**.

The row should look like this:

```
"fieldTemplateMap": {
  "RecordName_hyperlink": "hyperlinkTemplate"
}
```

21. Click **Preview** and test the search.

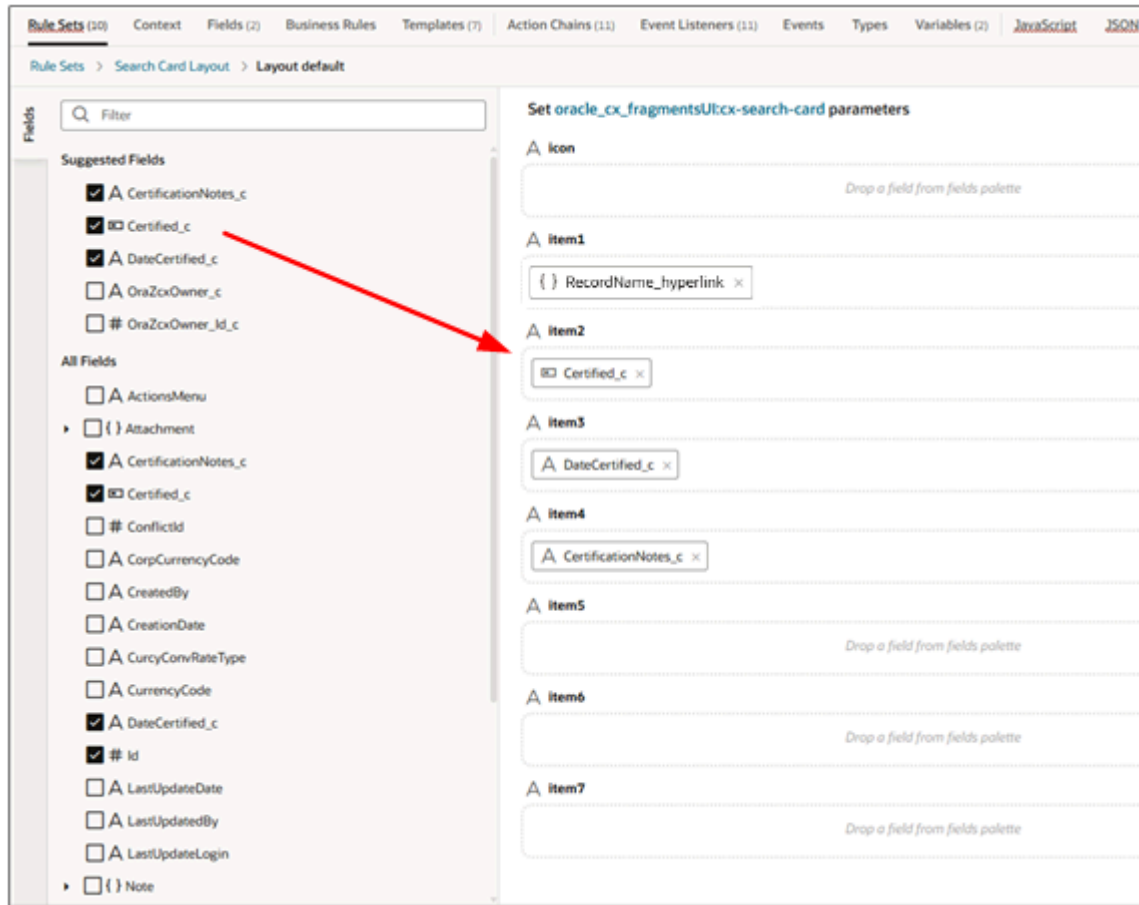


## How can I change which fields display in Sales Dashboard search results for standard objects?

You can change the fields that display in Sales Dashboard search results for any of the standard objects by duplicating its predefined Search Card layout and updating the list of fields in the duplicate. Here's how.

1. Make sure that the fields you want to add to search are enabled for Adaptive Search and for keyword search.
2. Open the Sales Dashboard in the Sales application.
3. Open Oracle Visual Builder Studio (**Your initials** > **Settings and Actions** > **Edit Page in Visual Builder Studio**).
4. In VB Studio, click the **Layouts** tab.
5. Click the name of the object.
6. In the right pane **Rule Sets** subtab, click the **Search Card Layout** entry.
7. Duplicate the Search Card Layout and edit the copy.

8. In the Search Card Layout copy, delete any fields you want to remove and move the fields you want to display from the list to the right-hand pane.



**Note:** Don't move fields into the Icon field. You can't change the icons on this page.

In the runtime application, the search results are divided into 3 columns. The fields in Item 1 to Item 3 in the layout display in the first column, Item 4 and Item 5 in the second, and Item 6 and Item 7 in the third.

Each row of search results also includes the object name and a list of actions (not part of the Search Card Layout).

The screenshot shows a 'Search Results' interface. At the top is a search bar with a magnifying glass icon, the text 'email', a close 'X' button, and the placeholder 'Try searching by keyword or add a filter'. To the right of the search bar is a button labeled 'Filter by Object'. Below the search bar is a table with four rows of results. Three vertical red lines are drawn across the table, with circular callouts numbered 1, 2, and 3 above them. Callout 1 points to the first column (task details), callout 2 points to the second column (dates), and callout 3 points to the third column (status).

Followup demo Demo Gupta Atanu	11/20/24 6:00 PM 11/20/24 7:00 PM		Appointment ...
Send Followup Email E-mail Gupta Atanu	11/27/24	Not started	Task ...
Send Intro Email E-mail Gupta Atanu	12/13/24	Complete	Task ...
Send an Intro Email E-mail Gupta Atanu	12/14/24	Complete	Task ...

9. You can preview your new layout by clicking the **Preview** icon in the VB Studio tool bar.

## Enable Filtering of Information Displayed in the Sales Dashboard

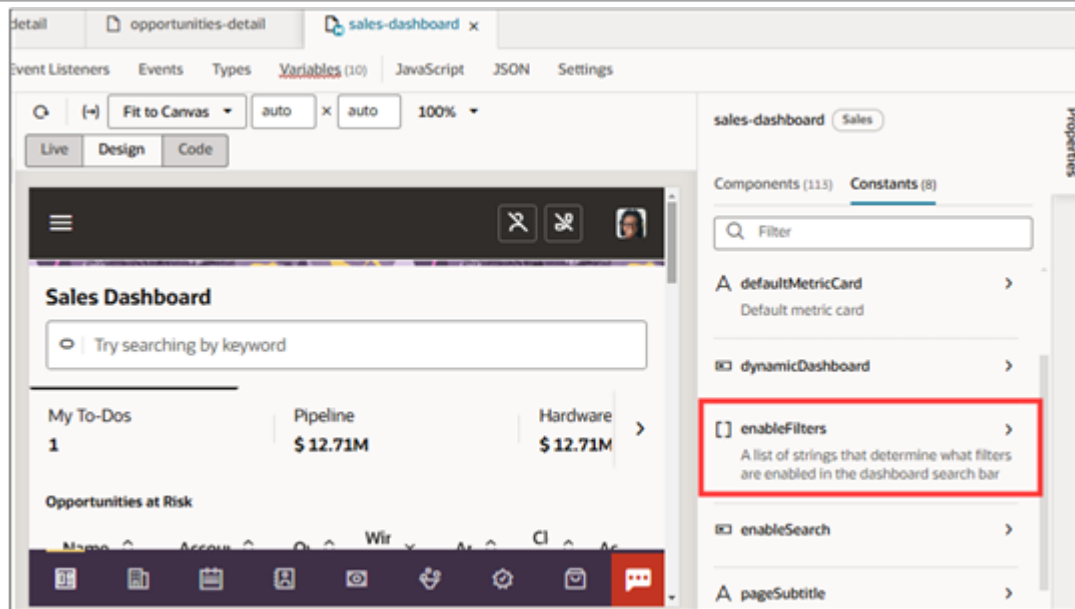
You can enable 4 filters that salespeople can use to filter the information displayed in the sales dashboard: Time Period, Teams, Territory, and Product Groups. When you enable the filters, they're available in all the sales dashboards in your organization.



Here's how to display the global filters:

### Enable the Filters Using VB Studio

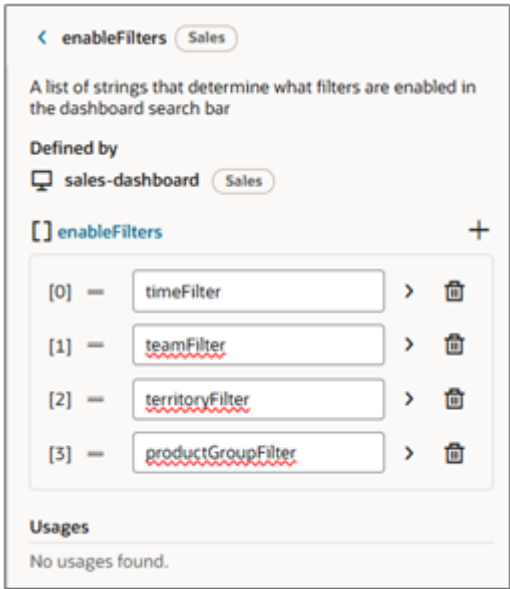
1. Open the custom Sales Dashboard where you're adding the filters.
2. Click **Settings and Actions > Edit Page in Visual Builder Studio**.
3. In VB Studio, select the **App UIs** tab.
4. On the **Page Designer** subtab, click **Components**.
5. On the **Properties** tab on the right, click **Constants**.
6. Click **enableFilters**.



7. Use the **Add Item** (plus sign) icon to add rows for each filter you want to display. You can make the filters available to all or restrict them to specific job roles. For example, only managers may need to filter by teams and territories.
  - Enter the following code to enable filters to all users:

Filter	Code to Enable to All Users
Time Period	<code>timeFilter</code>
Team	<code>teamFilter</code>
Territory	<code>territoryFilter</code>

Filter	Code to Enable to All Users
Product Groups	productGroupFilter



- To restrict a filter to specific job roles, enter code similar to the following. The sample code below restricts the metric you specify in **yourMetric** to the sales manager roles provided by Oracle.

```
[[ $application.user.roles.includes('ORA_ZBS_INSIDE_SALES_MANAGER_JOB') ||  
$application.user.roles.includes('ORA_ZBS_SALES_MANAGER_JOB') ? 'mymetric' : 'yourMetric' ]]
```

## Enable Filters in the OTBI Analyses

You must include "is prompted" column filters in your analyses that match the filters you enable in the dashboard. The following table lists the columns for opportunity pipeline visualizations.

### Filters to Add in OTBI to Enable Sales Dashboard Filtering

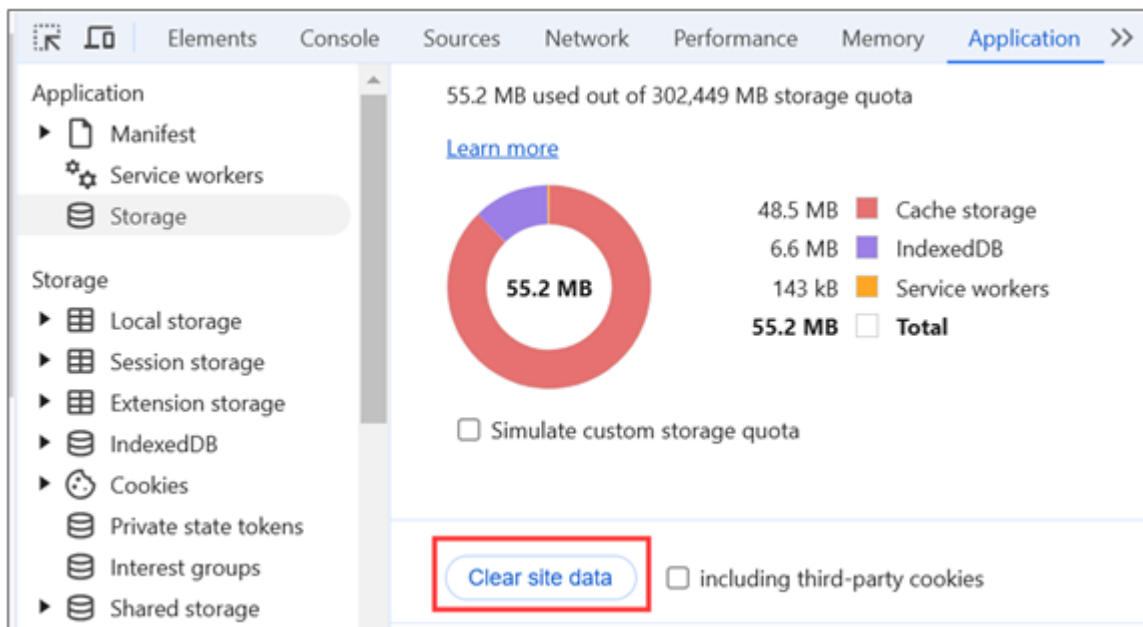
Filter	Folder	Column	Operator
Team	Sales - CRM Pipeline > Employee > Sales Resource Hierarchy/	Current Level 1 Resource id	is prompted
Territory	Sales - CRM Pipeline > Territory > Territory Hierarchy	Level 1 Territory id	is prompted
Time	Sales - CRM Pipeline > Opportunity	Expected Close Date	is prompted
Product Group	Sales - CRM Pipeline > Product	Sales Catalog Hierarchy 1 Name	is prompted



## What do I do if the filters I apply aren't reflected in a sales dashboard?

If the filters aren't reflected in a sales dashboard, try the following:

- Refresh the browser.
- Clear site data in your browser:
  - a. In the Chrome browser, right-click on the sales dashboard page.
  - b. Select **Inspect**.
  - c. Click **Applications** subtab.
  - d. Click **Clear site data**.



- Check to make sure the OTBI analysis includes "is prompted" filters. See *Enable Filters in the OTBI Analyses*.

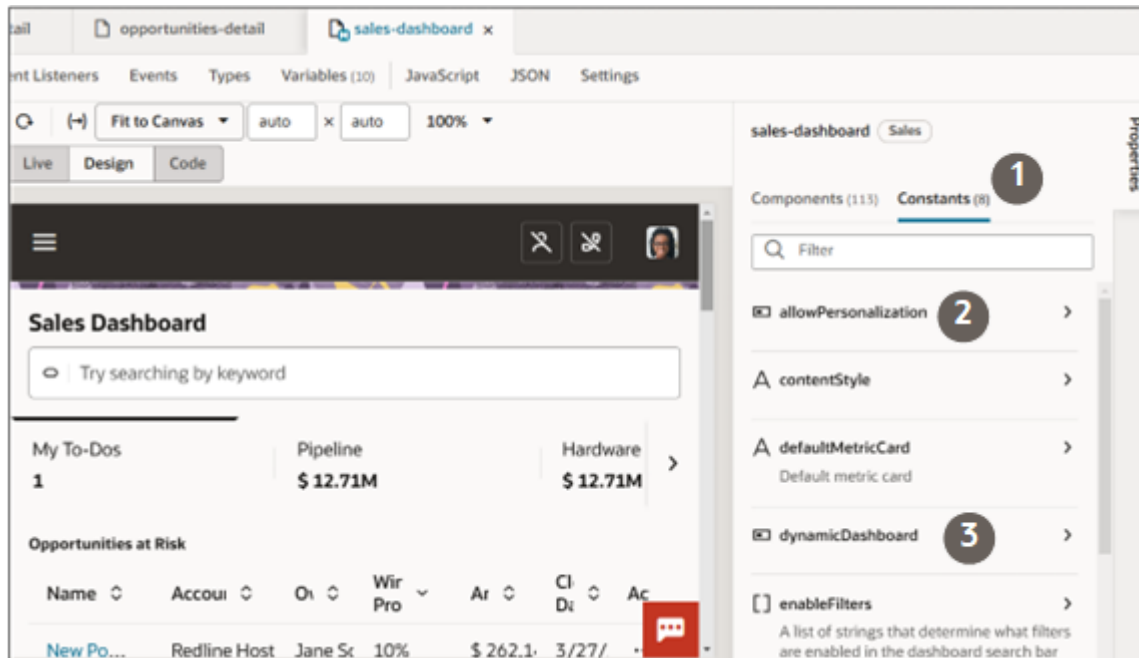
# 7 Enable and Use Sales Dashboard Personalization

## Enable Sales Dashboard Personalization

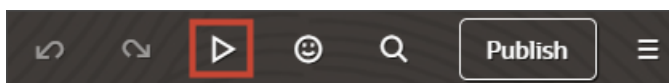
Here's how to make it possible for users to configure their own sales dashboard versions using the content provided by administrators and visualizations they themselves created in Express Reports.

**Note:** A video on [Oracle Customer Connect](#) summarizes this setup and runtime functionality.

1. Open the Sales Dashboard version where you want to enable editing.
2. Click **Settings and Actions** > **Edit Page in Visual Builder Studio**.
3. In VB Studio, select the **App UIs** tab.
4. On the **Page Designer** subtab, click **Components**.
5. On the **Properties** tab on the right, click **Constants**.



6. Click **allowPersonalization** and set to **true**.
7. Click **dynamicDashboard** and set to **true**.
8. You can now click **Preview** and use the **Edit Page Layout** button to personalize the sales dashboard.



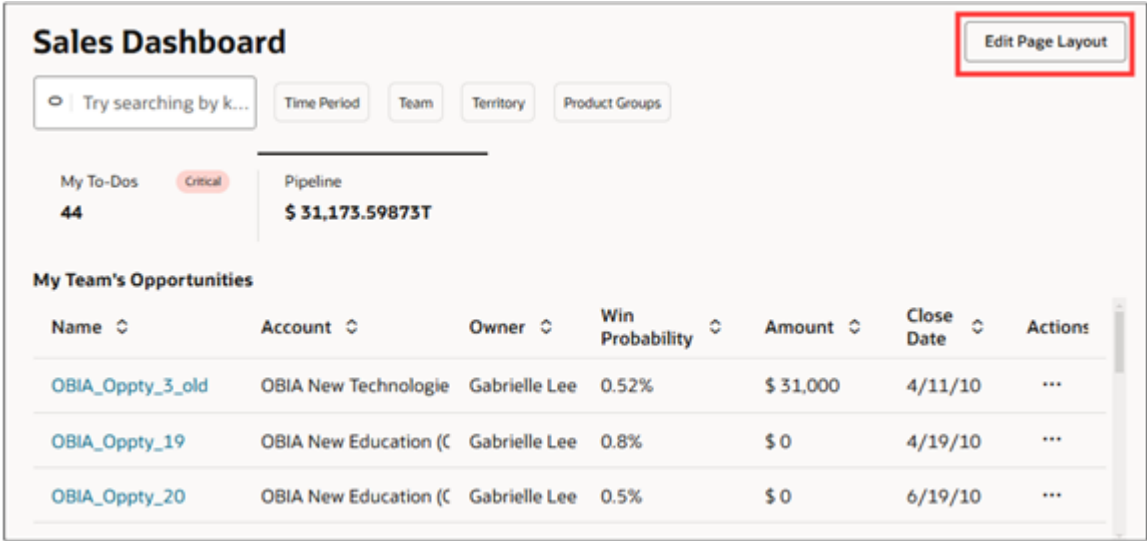
9. Publish to enable the personalization.

# Personalize Your Sales Dashboard

You can add, remove, and rearrange content to create your own personal dashboard. You can add content provided by administrators as well as visualizations that you created from prompts and using the Express Reports tool.

When you edit the sales dashboard, that personalization is available only to you. You can't share it.

Click the **Edit Page Layout** button to open the editing mode.

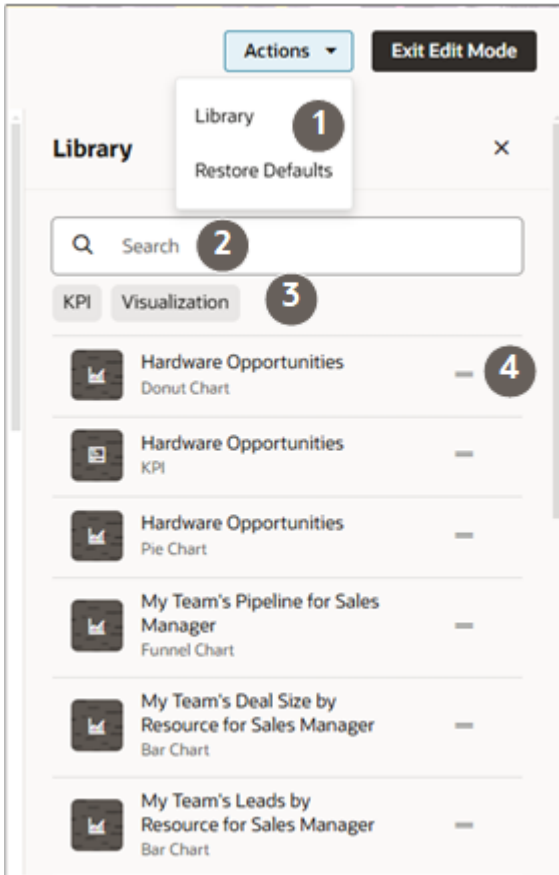


Use the **Library** pane to add content. To move and remove items, hover over them and use the controls.

## Library Pane Functions

Callout	Feature Description
1	Use the <b>Actions</b> menu to restore the original dashboard.
2	Search for content.
3	The <b>KPI</b> filter displays the content available to create the top of a tab. The <b>Visualizations</b> filter lists the content you can add to the tab itself.
4	Drag items into place using the handles.

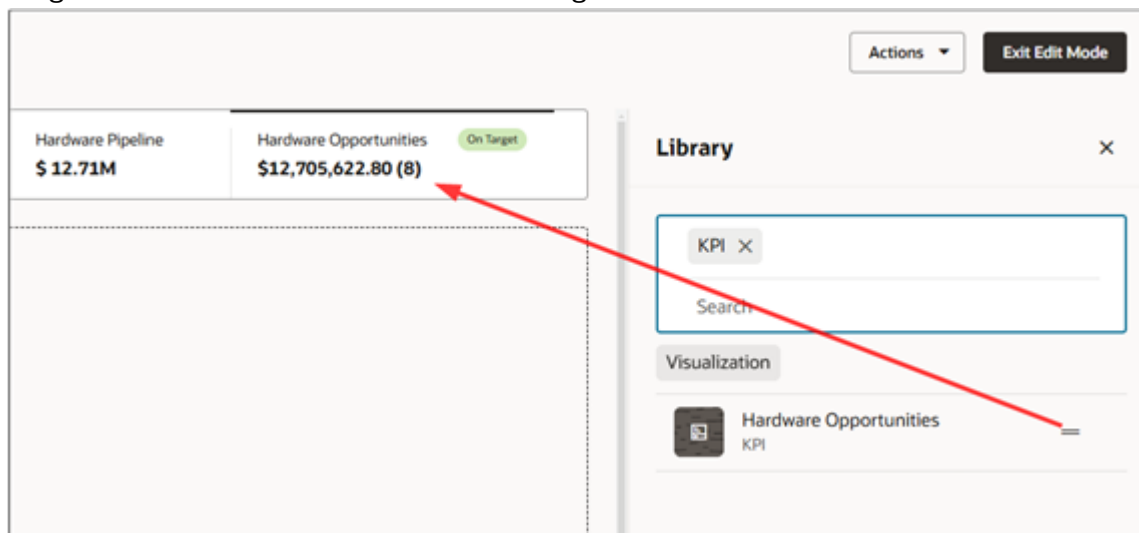




## Create Tabs

You can create your own tabs. Here's how:

1. In the **Library** pane, click **KPI** to view the available KPIs that you can use for the top of your tab.
2. Drag one of the items next to one of the existing tabs on the sales dashboard.



3. You're now ready to add content.

## Add Content to an Existing Tab

You can have maximum of 5 items in a tab. You can add:

- Charts and tables created by administrators in the Visualization Configuration tool.
- Charts that you created by entering prompts in the Ask Oracle bar and saved in the library.
- Express Reports that you've created and those shared with you by an administrator.

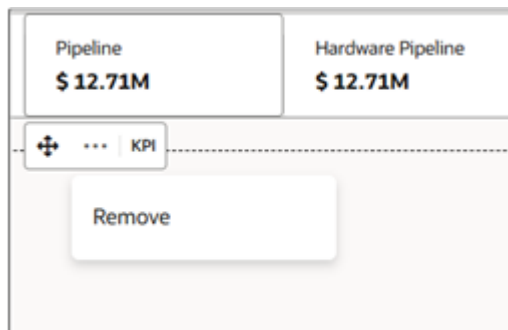
**Note:** The library includes all available visualizations and express reports. Some may not be applicable for your role in the organization. You may not have permission to view the data in some charts, for example.

Here's how to add content:

1. In the **Library** tab, click the **Visualizations** button.
2. Search for what you want to add in the library.
3. Use the handles to drag the item into place on the dashboard.

## Move and Remove Content

- To move an item, hover over it and drag using the handle.
- To remove an item, hover over it and click **Actions > Remove**



## Restoring the Default Dashboard

You can restore the original dashboard, by clicking **Actions > Restore Defaults** (the button at the top of the page).

## 8 Visualization FAQs

### How do I migrate visualization configurations to other environments?

You can copy your visualization configurations to other environments using the Export Management and Import Management tools.

To import and export visualization configurations, refer to the [Understanding Import and Export Management for Sales and Fusion Service](#) guide.

Object: Visualization Configuration

Sample scripts:

- To export a specific configuration: `ReportConfigNumber = 'CDRM_1002'`
- To export all configurations: `ReportConfigNumber IS NOT NULL`

### What do I do if a user doesn't see Visualization Configuration in Application Composer?

Make sure that the user is assigned the following job roles provided by Oracle:

- `ORA_ZCA_CUSTOMER_RELATIONSHIP_MANAGEMENT_APPLICATION_ADMINISTRATOR_JOB`
- `ORA_ZBS_SALES_ADMINISTRATOR_JOB`

### What do I do when Adaptive Search isn't available as a source type for creating visualization?

Check to make sure that Oracle Sales in the Redwood User Experience is enabled. Both the Digital Sales Next Gen UI and Sales in the Redwood UX features in the Sales offering must be selected.

If the option isn't visible even after enabling these features, then clear the browser cache.

#### *Related Topics*

- [How can I enable Oracle Sales in the Redwood User Experience?](#)

## What do I do when there's no data in a visualization?

Check to make sure that you've the same data access as the intended user of the visualization. For a saved search visualization, check the list page. For an Oracle Transactional Business Intelligence (OTBI) analysis, check the results in OTBI.

## What do I do when I get the error "Select values for all the required fields to generate the visualization"?

Make sure that you select all the values required for the visualization. For example, you must select a value for the x-axis if you're displaying a bar chart. If all the values are selected, check if the column is a hierarchy column. Oracle Business Intelligence hierarchical data can't be used in visualizations.

## What do I do when I get the warning that the analysis has more columns than selected?

Here's what to do when you see the warning that your analysis: **"...has more columns than selected. Remove the unused columns from the analysis else visualization may not show correct data."**

The attributes that you use in your visualization must use all of the columns in your Oracle Transactional Business Intelligence (OTBI) analysis. If you can't use all of the columns in the visualization, go back to the analysis and remove the unused columns.

For example, a bar chart can support 2 dimensions, 1 metric, and you can have 1 filter attribute. If a report has more than 4 columns ( 3 dimensions and 1 fact), then you'll see this warning.

Visualizations can't show up correctly if the data in your analysis is aggregated or calculated with more columns than chart can support.

## Why does my visualization show a value higher than 100 percent?

Formatting a number in the visualization merely adds a percent symbol (%) to the visualization display. No calculation is performed. You must perform calculations at the source of your visualization data. The same is true for currency symbols.

## Why isn't the Meter Gauge and Tabular Chart available for Adaptive Search visualizations?

The Meter Gauge and Tabular Chart visualization types are available only for Oracle Transactional Business Intelligence (OTBI) analyses.

## What visualizations are available for Oracle CX Sales Mobile?

Here are the visualizations that are available in for CX Sales Mobile application:

- Pie
- Donut
- Bar (Stacked Bar)
- Area Charts
- Funnel
- Scatter
- Bubble
- Combo- Partially

Not supported are:

- Meter
- Metric
- Tabular
- Line
- Combo (New updates to the charts)

## How can I change the sort order in a table I created as a visualization from an OTBI analysis?

You can change the sort order in the Oracle Transactional Business Intelligence (OTBI) analysis. Starting with update 25A, you can also change the sort order in the visualization itself.

## How many rows of data does a table visualization show?

The table you created as a visualization displays the first 100 rows of data using the sort order in the underlying Oracle Transactional Business Intelligence (OTBI) analysis. Users can click the View All option on the table to display up to 2000 rows.

## What do I do when an OTBI report isn't listed while creating a visualization?

Check the following:

- Can you access the report in Oracle Transactional Business Intelligence (OTBI)?
- Is the correct top-level folder selected? If not, change the folder using the **Select Catalog Folder** button.
- Have you just created the analysis? New OTBI analyses take a while to appear in the visualization configuration tool.

## What do I do when the saved visualization configuration doesn't render the chart?

Check if any columns in the Oracle Transactional Business Intelligence (OTBI) analysis were added or deleted. If they were, then you must add the changed columns again because the visualization relies on column IDs from the analysis.

## What do I do if tick mark labels repeat on a chart?

If tick marks repeat on a chart, you can switch the **Number Format** from **Currency** to **Decimal** to fix the issue. This is a known issue that's in the process of being fixed.



## How come I don't see all the rows of my data in a table I created as a visualization?

When you create a tabular visualization of the data from an Oracle Transactional Business Intelligence analysis, the table shows a maximum of 100 rows. Users can click **View All** to see all of the records.

## How come that, in the Sales Dashboard, I can't sort the table created as a visualization?

You can't sort a table that's created as a visualization in the Sales Dashboard UI. Instead, you must change the sort order in the Oracle Transactional Business Intelligence (OTBI) analysis itself.

## What's the cause of the error "source doesn't have enough value to generate a visualization"?

Check your report to see if you have the required number of attributes in the Oracle Transactional Business Intelligence analytic that's the source of your data. For Metric Charts, you must include at least 1 Fact column. For other charts, you must include at least 1 metric and dimension.

## What's the likely cause of the message that tells me to reduce the number of metrics for visualization?

There's a limit to the number of metrics that can be set to the "not null" value. The message "Reduce the number of metrics for this visualization. You've exceeded the maximum number." appears when this maximum number is exceeded.

## What does it mean when I get the error "We couldn't create a BI session"?

The error indicates that the application is unable to connect to Oracle Business Intelligence (BI) Answers. Check to make sure that BI is running and that you can connect to BI Answers.



## 9 Sales Dashboard Configuration FAQs

### How come I don't see the Sales Dashboard icon?

The Sales Dashboard is only visible to job roles with the privilege ZBS\_VIEW\_SALES\_DASHBOARD\_PRIV.

The privilege is available in the following job roles provided by Oracle:

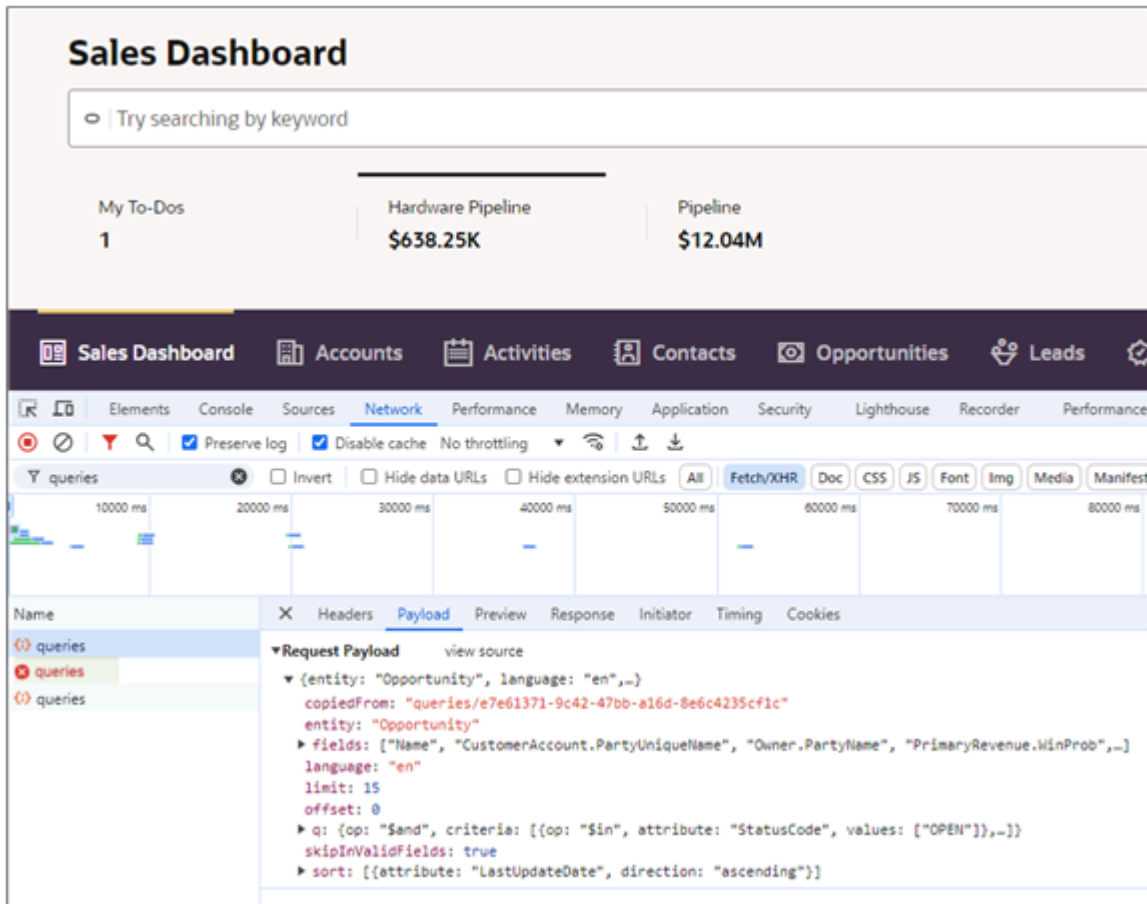
- ORA\_ZBS\_SALES\_REPRESENTATIVE\_JOB
- ORA\_ZBS\_SALES\_MANAGER\_JOB
- ORA\_ZBS\_SALES\_VP\_JOB

### What do I do if a dashboard table or list doesn't show any data from a saved search?

On the list page, check if the saved search is visible to the user. Saved searches can be specific to individual job roles or hidden by administrators.

If the saved search shows up correctly on the list page, then you can troubleshoot using your browser to see if any of the queries have failed:

1. In the Chrome browser, open the sales dashboard from the home page or preview it from Oracle Visual Builder Studio.
2. Right-click and select **Inspect**.
3. Click **Network**.
4. Select the **Preserve log**, **Disable cache**, and **Fetch/XHR** options.
5. Enter **queries** in the **Filter** field.
6. Any query that's failed is labeled with an X in the **Name** column.
7. To troubleshoot, select the query and click **Payload**.



## What do I do if the dashboard is blank after I configured it?

Inspect the page in the browser for any errors.

1. With the Sales Dashboard open, right-click and select **Inspect**.
2. Go to the **Console** tab and look for any errors.
3. Check the **Network** tab for any errors in network calls (highlighted in red).
4. If the cause of the error isn't clear, then capture the errors and contact Oracle support.

## Why is a field, such as currency or date, not showing up in the correct format?

You must add a template to format a field, including the forward slash character (/). Templates include the following:  
/currencyTemplate, /dateTemplate, /singleSelectFCLTemplate, /emailTemplate, /phoneTemplate, /hyperlinkTemplate, /percentageTemplate

## How do I troubleshoot saved search data that's not showing up?

If the saved search with the issue is one of the saved searches provided by Oracle, then check if any of the saved searches have been hidden and enable them again. If it's a custom saved search, then check that the correct saved search is being used and ensure that the user has access to the data.

Use this troubleshooting method for any of these types of errors:

- An "Invalid Identifier for Saved Search" error on a Metric Card
- A dashboard table that shows: "No data to display."
- A dashboard panel that shows the error: "Not able to fetch query definition"



# 10 Appendix of Alternative Setup Methods

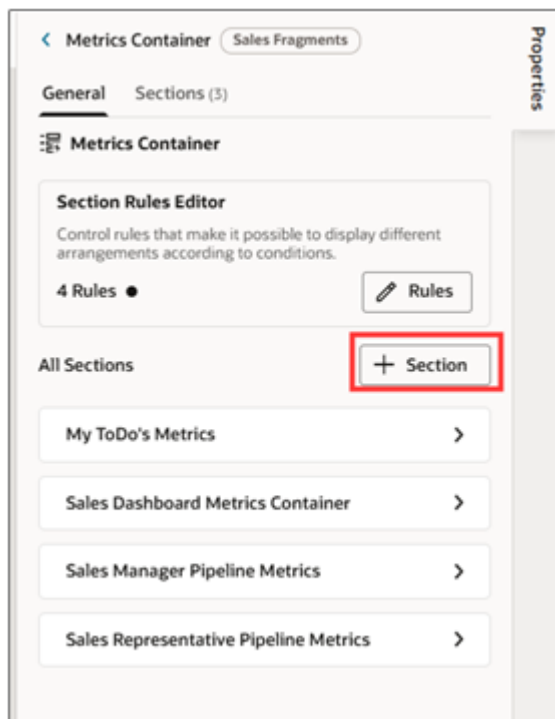
## Create a Metric Card Directly in VB Studio

Instead of first creating the metric card contents as a visualization (the preferred method), you can create the whole metric card directly in Oracle Visual Builder Studio. Here's an example of creating a metric card with the sum of opportunities from a saved search.

**Note:** The code in this example is for opportunities. For values to use with other objects, see the topic *Values to Use in Code for Standard Components in Tables, Metric Cards, and List Views*.

### Create the Metric Card

1. Click **Add Section** in a metrics container copy. (The button is the plus sign highlighted in the screenshot).

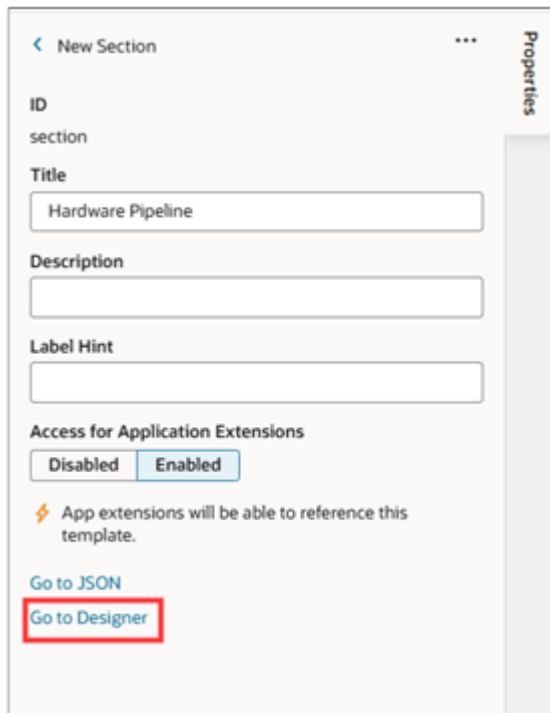


2. Click **New Section** at the top of the list.

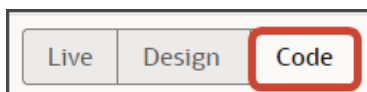
**Note:** Although VB Studio makes it possible to duplicate the metric cards provided by Oracle, you must instead add a new section, even if you're making a small change. You can't duplicate sections.

3. In the Create Section window, enter a title that's visible only during setup. You'll enter the actual tab title as a parameter in the code. For example, enter **Sales Manager Hardware Pipeline**.

4. Click the **Go to Designer** link.



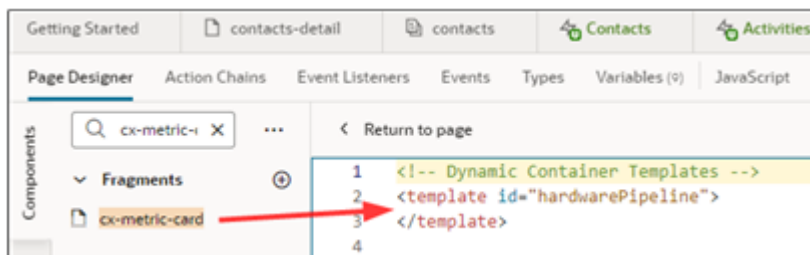
5. Click **Code**.



6. Your new **Sales Manager Hardware Pipeline** section displays empty placeholder `template` tags.

```
<template id="salesManagerHardwarePipelineMetrics">
</template>
```

7. On the **Components** palette, in the **Filter** field, enter `cx-metric-card`.
8. Drag and drop the **cx-metric-card** fragment to the template editor, between the template tags.



You action inserts the following code:

```
<oj-vb-fragment bridge="[[vbBridge]]" name="oracle_cx_fragmentsUI:cx-metric-card"></oj-vb-fragment>
```

9. Add the following class information to the fragment: `class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height`.

The resulting code looks like this:

```
<oj-vb-fragment bridge="[vbBridge]" name="oracle_cx_fragmentsUI:cx-metric-card" class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height"></oj-vb-fragment>
```

10. Insert the following code for the metric card before the `</oj-vb-fragment>` tag

- a. Add the required **resource** parameter, which identifies the business object. The resource parameter is different for each object.

Here's the resource parameter for opportunities, the object for pipeline information:

```
<oj-vb-fragment-param name="resource" value='[[ {"name": "opportunities", "primaryKey": "OptyId", "puid": "OptyNumber", "endpoint": "cx" } ]]'></oj-vb-fragment-param>
```

For other supported business objects, see the list of resource parameters in *Values to Use in Code for Standard Components in Tables, Metric Cards, and List Views*.

- b. Add the required **query** parameter, which specifies the saved search that's the source of your data.

In this example, the source is a saved search with the ID `caf84b9d-b975-4b9d-b78e-41718b78f36e`. You can obtain the ID of saved searches by inspecting the code in the Chrome browser as described the topic *How can I find the UUIDs for a saved search and the IDs for its filters in Oracle Sales in the Redwood User Experience?*.

```
<oj-vb-fragment-param name="query" value='[[ [{"type": "savedSearch", "params": [{"key": "queryUuid", "value": "caf84b9d-b975-4b9d-b78e-41718b78f36e"}]}, ]]'></oj-vb-fragment-param>
```

- c. Optionally, you can filter the data from your source. For example, the sample parameters here filter the data to include only open opportunities owned by a manager's subordinates.

**Tip:** The saved search may already include filters, so you might want to add filters there instead of having another place to update in the future.

```
<oj-vb-fragment-param name="query" value='[[ [{"type": "savedSearch", "params": [{"key": "queryUuid", "value": "caf84b9d-b975-4b9d-b78e-41718b78f36e"}]}, {"type": "qbe", "params": [{"key": "StatusCode", "operator": "in", "value": ["OPEN"] }, {"key": "RecordSet", "value": "ORA_MYSUBORDSSALESTEAMOPTIES" } ]]'></oj-vb-fragment-param>
```

- d. Optionally, add badges that draw attention to critical information, as described in the section *Add Badges to the Metric Card*.
- e. Add the **title** parameter with the title that displays on the tab.

```
<oj-vb-fragment-param name="titleItem" value="['Hardware Pipeline']"></oj-vb-fragment-param>
```

- f. To display the sum on the tab, add the **aggregate** parameter to calculate it. In this example, the parameter calculates the sum of the opportunity revenue in the saved search:

```
<oj-vb-fragment-param name="aggregate" value="[[ {'field': 'PrimaryRevenue.RevnAmount', 'functionType': 'sum' } ]]'></oj-vb-fragment-param>
```

Here's sample code for the opportunity saved search without the optional filters and badges:

```
<template id="salesManagerHardwarePipelineMetrics">
<oj-vb-fragment bridge="[vbBridge]" name="oracle_cx_fragmentsUI:cx-metric-card" class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height">
<oj-vb-fragment-param name="resource" value='[[ {"name": "opportunities", "primaryKey": "OptyId", "puid": "OptyNumber", "endpoint": "cx" } ]]'></oj-vb-fragment-param>
```

```
<oj-vb-fragment-param name="query" value='[[ [{"type": "savedSearch", "params": [{"key": "queryUuid",
"value": "caf84b9d-b975-4b9d-b78e-41718b78f36e"}]}],
] ]]'></oj-vb-fragment-param>
<oj-vb-fragment-param name="aggregate" value="[[ {'field': 'PrimaryRevenue.RevnAmount', 'functionType':
'sum' } ]]'></oj-vb-fragment-param>
<oj-vb-fragment-param name="titleItem" value="['Hardware Pipeline']"></oj-vb-fragment-param>
</oj-vb-fragment>
</template>
```

11. Click **Return to Page**.

## Add Badges to the Metric Card

First, determine the display conditions. Each condition is a range of aggregate sum numbers that display on the metric card. For each range, you decide which type of badge to display. For example, you can configure this type of setup:

- If fewer than 5 overdue tasks exist, then don't show a badge at all.
- If 5-10 overdue tasks exist, then show a warning badge.
- If more than 10 overdue tasks exist, then show a critical badge.

When you define the display conditions for a metric card, the order of those conditions is important. Each condition is evaluated in the order in which you define them, from top to bottom. Whichever condition is satisfied first is the condition that's applied.

You can also configure the metric card so that the card always displays the same badge regardless of the aggregate sum on the card.

The following table lists the badge properties that you can use to define a set of badges and display conditions:

### Badge Properties

Badge Property	Description
status	<div><ul style="list-style-type: none"><li>• danger</li><li>• info</li><li>• neutral</li><li>• success</li><li>• warning</li></ul><p>Each type of badge (<b>status</b>) displays a specific color, which you can't change.</p><p>Here's an example of a "danger" badge with the text "Critical":</p><div><div>My To-Dos</div><div>Critical</div><div>18</div></div></div>
min	Lower limit of the display condition for a specific badge.
max	Upper limit of the display condition for a specific badge.



Badge Property	Description
<code>text</code>	Text that displays on the badge. Each type of badge ( <code>status</code> ) displays with default text, but you can use this property to change it.

Here's a sample of the code that you can use to define a set of badges and display conditions:

```
[{status : "success", text : "All Good", min : "0", max : "10"}, {status : "warning", text : "Attention", min : "11", max : "50"}, {status : "danger", text : "Critical", min : "51"}]
```

- Specify the type of badge to display (`status`).
- Define the conditions (`min` and `max`) that display each badge and an optional description.
- Indicate the badge text (`text`), for example, **Warning** or **Problem**.

#### Tip:

- You can specify only a lower limit without an upper limit (to indicate an aggregate sum that's greater than 10, for example).
- You can add `metaText` without any range conditions. So, if none of the ranges apply, then show a description on the metric card.

## Add Code to Display a Saved Search as a Table Not Created As a Visualization

If you didn't create the table as a visualization (the recommended method), use these steps to add the code to display a table from a saved search.

**Note:** The code in this example is for opportunities. For value to use with other objects, see the topic *Values to Use in Code for Standard Components in Tables, Metric Cards, and List Views*.

1. On the **Components** palette, in the **Filter** field, enter `cx-subview`.
2. Drag and drop the `cx-subview` fragment to the template editor, between the template tags.



3. Add the following class information: `class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height"` to the `<oj-vb-fragment` line before the `>` tag.

```
<oj-vb-fragment bridge="[[vbBridge]]" name="oracle_cx_fragmentsUI:cx-subview"
```

```
class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height">
```

4. Add the required **resource** parameter, which specifies the business object you're displaying. Each object requires different values. Here are the values for opportunities:

```
<oj-vb-fragment-param name="resource"
value='[[ {"name": "opportunities", "primaryKey": "OptyId", "puid": "OptyNumber", "endpoint":
"cx" } ]]'>
</oj-vb-fragment-param>
```

The values for other business objects are listed in the topic [Values to Use in Code for Standard Components in Tables, Metric Cards, and List Views](#).

5. If you're displaying a table with opportunity revenue, you must insert this additional parameter because opportunity revenue is a child object of opportunity:

```
<oj-vb-fragment-param name="child" value='[[ {"name": "ChildRevenue", "primaryKey": "RevnId"} ]]'></oj-
vb-fragment-param>
```

6. Add the required **query** parameter, which specifies the saved search that is the source of the data in your table:

```
<oj-vb-fragment-param name="query" value='[[ [{"type": "savedSearch", "params": [{"key": "queryUuid",
"value": "caf84b9d-b975-4b9d-b78e-41718b78f36e"} ]}
] ]]'></oj-vb-fragment-param>
```

In this example, the source is a saved search with the ID `caf84b9d-b975-4b9d-b78e-41718b78f36e`. You can obtain the ID of saved searches by inspecting the code in the Chrome browser as described in the topic [How can I find the UUIDs for a saved search and the IDs for its filters in Oracle Sales in the Redwood User Experience?](#).

7. Optionally, you can filter the data from your source. For example, the sample parameters here filter the data to include only open opportunities owned by a manager's subordinates.

```
<oj-vb-fragment-param name="query" value='[[ [{"type": "savedSearch", "params": [{"key": "queryUuid",
"value": "caf84b9d-b975-4b9d-b78e-41718b78f36e"} ]},
{"type": "qbe", "params": [{"key": "StatusCode", "operator": "in", "value": ["OPEN"] }},
{"key": "RecordSet", "value": "ORA_MYSUBORDSSALESTEAMOPTIES" } ]]'></oj-vb-fragment-param>
```

8. Add the following **style** parameter. It specifies the size and position of the sections in the tab as you add more sections. For details see the topic [How Information Displays in a Sales Dashboard Tab as You Add Sections](#)

```
<oj-vb-fragment-param name="style" value="[[ 'dashboard' ]]"></oj-vb-fragment-param>
```

9. Add the **subviewLayoutId** parameter to use the dashboard layout (**dashboardLayout**). The dashboard layout specifies which columns are displayed in the table, in which order, and in which relative widths. The default layout already includes the important columns, but you can create your own custom layouts as described in the topic: [Specify the Columns in a Sales Dashboard Table and Their Widths](#)

```
<oj-vb-fragment-param name="subviewLayoutId" value="[[ 'dashboardLayout' ]]"></oj-vb-fragment-param>
```

10. Add the **title** parameter, to specify the title that displays on the tab.

```
<oj-vb-fragment-param name="title" value="['Hardware Opportunities]'"></oj-vb-fragment-param>
```

## Sample Code for Opportunity Pipeline Table from a Saved Search

Here's the complete code for an opportunity table (leaving out the optional query parameters):

```
<template id="hardwareOpportunitiesInPipeline">
```

```
<oj-vb-fragment bridge="[vbBridge]" name="oracle_cx_fragmentsUI:cx-subview"
class="oj-flex oracle-cx-fragmentsUI-cx-fragment-full-height">
<oj-vb-fragment-param name="resource"
value='[[ {"name": "opportunities", "primaryKey": "OptyId", "puid": "OptyNumber", "endpoint": "cx" } ]]'>
</oj-vb-fragment-param>
<oj-vb-fragment-param name="query" value='[[ [{"type": "savedSearch", "params": [{"key": "queryUuid",
"value": "caf84b9d-b975-4b9d-b78e-41718b78f36e" }]} ]]'>
</oj-vb-fragment-param>
<oj-vb-fragment-param name="style" value="[[ 'dashboard' ]]"></oj-vb-fragment-param>
<oj-vb-fragment-param name="title" value="[[ 'Hardware Opportunities' ]]"></oj-vb-fragment-param>
<oj-vb-fragment-param name="subviewLayoutId" value="[[ 'dashboardLayout' ]]"></oj-vb-fragment-param>
</oj-vb-fragment>
</template>
```

## Sample Code for a Table with Opportunity Revenue

To add a table of opportunity revenue, you must add an additional revenue parameter because a revenue line is a child object of opportunity:

```
<oj-vb-fragment-param name="child" value='[[ {"name": "ChildRevenue", "primaryKey": "RevId" } ]]'></oj-vb-fragment-param>
```

Here is sample code with the child fragment added:

```
<template id="revenueTable">
<oj-vb-fragment name="oracle_cx_fragmentsUI:cx-subview" class="oj-flex oracle-cx-fragmentsUI-cx-fragment-
full-height" bridge="[ vbBridge ]">
<oj-vb-fragment-param name="resource" value='[[ {"name": "opportunities", "primaryKey": "OptyId", "puid":
"OptyNumber", "endpoint": "cx" } ]]'></oj-vb-fragment-param>
<oj-vb-fragment-param name="child" value='[[ {"name": "ChildRevenue", "primaryKey": "RevId" } ]]'></oj-vb-
fragment-param>
<oj-vb-fragment-param name="query" value='[[ [{"type": "savedSearch", "params": [{"key": "queryUuid",
"value": "73b21b33-db08-4327-bf30-88c3c9e0f70d" }]} ]]'></oj-vb-fragment-param>
<oj-vb-fragment-param name="style" value="[[ 'dashboard' ]]"></oj-vb-fragment-param>
<oj-vb-fragment-param name="title" value="[[ 'Revenue' ]]"></oj-vb-fragment-param>
<oj-vb-fragment-param name="subviewLayoutId" value="[[ 'dashboardLayout' ]]"></oj-vb-fragment-param>
</oj-vb-fragment>
</template>
```

