

## What's New for Oracle Analytics Server

Here's an overview of new features and enhancements added recently to improve your Oracle Analytics Server experience.

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## What's New in Oracle Analytics Server 2025

### Exploring, Dashboarding, and Storytelling

Feature	Description
Add a Checkbox / Radio Button filter selector to dashboards	Use the Checkbox / Radio Button dashboard filter to allow users to select a single data value (radio buttons) or multiple data values (checkboxes). See <a href="#">About Dashboard Filters</a> .
Add conditional formatting for attributes	Format data in workbooks using conditional rules based on attribute values. See <a href="#">Add Conditional Formatting to Data</a> .
Add emojis and icons to more visualization types	Enhance composite and tile visualizations with emojis and icons. See <a href="#">What Can I Do With Conditional Formatting?</a>
Add tooltips to static reference map layers	Provide useful information to workbook users with tooltips in static reference map layers. See <a href="#">Work with the Selection Tool for Geometry Data Type Layers</a> .
Apply conditional formatting to totals and subtotals	Apply conditional formatting to totals and subtotals in workbooks. See <a href="#">What Can I Do with Conditional Formatting?</a>
Bind a parameter to exclude filter values	Bind a parameter to a workbook, dashboard, or visualization filter's Exclude property to pass excluded values between filters. See <a href="#">Create and Bind a Parameter to Exclude Filter Values</a> .

<b>Feature</b>	<b>Description</b>
Bind parameters to reference lines	Bind a parameter to a reference line or reference band date value or range to place the visualization's reference line or band based on date values the user specifies. See Bind a Parameter to a Reference Line or Band.
Bind parameters to relative time filters	Bind a parameter to a relative time filter to dynamically update a visualization based on user input to relative time periods. See Bind Parameters to Filters.
Bind parameters to request variables	Bind a parameter to a request variable to temporarily set the request variable to the parameter's value for a specific workbook query. See Bind a Parameter to a Request Variable.
Bind parameters to Top/Bottom N filters	Bind a parameter to a Top/Bottom N filter to dynamically update a visualization based on user input to top and bottom filter values. See Bind Parameters to Filters.
Control how workbook consumers configure maps	Control how workbook consumers can select shapes in map visualizations. See Apply Multiple Data Layers on a Single Map Visualization.
Convert canvas filters to dashboard filters	Move and convert all unpinned workbook filters to dashboard filters to utilize the functionality, filter styles, and personalization options that dashboard filters provide. See Convert Canvas Filters to Dashboard Filters.
Create and share workbook canvas templates	Create and share workbook canvas templates to enable workbook creators to quickly create visualization content. See Begin to Build a Workbook and Create Visualizations.
Create and share workbook themes	Create and share workbook and visualization styling properties, including color series and font settings to a workbook. See About Workbook Themes.
Create calculation-based groups more easily	Create calculation-based groups in workbooks more easily without having to create expressions. See Create Group Calculations in a Workbook.
Create calculations more easily	Include nested calculations more easily in the workbook expression builder. See Create Reusable Functions and Calculations in a Workbook.
Create canvases with enhanced layout	Select multiple visualizations to display equally on a canvas. See Display Multiple Visualizations Equally on a Canvas.
Create custom groups of home page artifacts	Create your own named custom group of home page artifacts from datasets, visualizations, and dashboards. See Create and Share Custom Home Page Groups.
Create custom tooltips in workbooks	Create custom tooltips in workbooks to provide formatted column descriptions for workbook users. See Customize Visualization Tooltips.
Create improved Sankey visualizations	Create improved Sankey diagrams to show resources, materials, and costs in workbooks. Use the Node Height Stretch property to adjust node width, column height, placement, display of data labels and their font properties, and the transparency of the node gap ratio. See Network Graphs.
Create parameters with derived dates	Choose derived date columns such as Year, Quarter, and Month to create parameters for a date or datetime data type column. See About Parameter Properties.

<b>Feature</b>	<b>Description</b>
Create precise relative time workbook filters	Create precise relative time workbook filters by excluding partial periods. See <a href="#">Filter Types</a> .
Customize tooltips in more visualization types	Provide customized tooltips for workbook users in visualizations of type Maps, Sunburst, Network, and Boxplot. See <a href="#">Customize Visualization Tooltips</a> .
Deploy static reference layers to maps	Add static reference map layers to your map visualizations even when there's no business data related to these layers. For example, show a map of schools and overlay a tornado path map layer to identify buildings at risk. See <a href="#">Apply Reference Layers to Map Visualizations</a> .
Design canvas layouts to control how visualizations display on different screen sizes	Use the Responsive Canvas editor to design and optimize canvas layouts for the browser on different devices, for example mobile, tablet, or laptop. See <a href="#">Design Canvas Layouts for Different Screen Sizes</a> .
Design datasets more easily	Design datasets more easily using the enhanced Join Diagram editor. Enhancements included global reset, free-form node placement, and new icons in nodes to show data settings. See <a href="#">Add Joins Between Dataset Tables</a> .
Display multiple legends in a workbook	Use a legend visualization to group legends in one place, and improve the end-user experience when viewing data. See <a href="#">Create a Legend Visualization</a> .
Display negative numbers in red	Display data labels and tooltips containing negative numbers in red in visualizations. See <a href="#">Format Numeric Values of Visualizations</a> .
Display reference lines in attribute columns	Display reference lines in attribute columns in visualizations. See <a href="#">Add Reference Lines to Visualizations</a> .
Embed workbooks in presentation mode	Embed workbooks into applications and web pages so that the workbook displays in presentation (rather than design) mode. See <a href="#">Prepare the HTML Page for Embedding</a> .
Export content to Excel from embedded visualizations	Export table and pivot table data in Microsoft Excel format from embedded workbooks. See <a href="#">Export a Visualization</a> .
Get notified about filter personalizations	Get notified when opening a workbook that has filter personalizations applied to it. See <a href="#">About Filter Personalizations</a> .
Hide columns in visualizations	Configure a visualization using a column that isn't visible to end users. See <a href="#">Hide Columns in Visualizations</a> .
Launch data actions in new ways	Launch data actions in new ways using new launch options in workbooks. See <a href="#">Create Data Actions to Connect Canvases</a> .
Locate tables more easily	Locate tables more easily when you design workbooks using a homepage style search area in the Add Data dialog. See <a href="#">Begin to Build a Workbook and Create Visualizations</a> .
Manage the content catalog more easily	Manage the content catalog more easily using drag and drop for artifacts and folders. See <a href="#">Move Catalog Folders and Contents</a> .
Organize your workbook calculations	Organize your workbook calculations and functions into subfolders in the My Calculations area. See <a href="#">Create a Folder to Store Calculations in a Workbook</a> .
Save background, border, and shadow styles to canvas templates	Specify visualization background, border, and shadow styles when creating workbook canvas templates. See <a href="#">Begin to Build a Workbook and Create Visualizations</a> .

Feature	Description
Select filter styles for dashboard filters	Specify dashboard filter style and formatting to provide a better on canvas consumer filtering experience. See <a href="#">Change the Dashboard Filter Style</a> .
Set locale and language preferences in your user profile	Set locale and language preferences in your user profile to override browser settings. The user interface displays in the specified language, and time, date, and currency data display based on the specified locale. See <a href="#">Localize the User Interface for Data Visualization</a> .
Share a workbook URL with persisted filter values	Share a workbook URL with persisted filter values so other users can view the workbook with your filter selections already applied. See <a href="#">Share a Workbook URL with Persisted Filter Values</a> .
Style your dashboard filter controls	Style the filter selectors in your dashboard filter control by displaying or hiding the outline. Available for both the Standard and Filter Chip styles. See <a href="#">Dashboard Filter General Properties</a> .
Switch between auto and manual Present modes	Easily locate the icon to switch between auto and manual modes in Present. Improved descriptions explain what happens when you switch between modes. See <a href="#">Switch Between Auto and Manual Modes in Present</a> .
Use parameters to show or hide a visualization	Show or hide a visualization on a canvas based on the selected value of a parameter to provide a more interactive dashboard experience. See <a href="#">Use a Parameter to Conditionally Show or Hide a Visualization</a> .
Use selection steps in workbooks	Add selection steps in the workbook filter bar to filter hierarchical columns in visualizations to refine the data displayed. See <a href="#">About Selection Steps</a> .

## Data Connectivity, Modeling, and Preparation

Feature	Description
Add filters on file-based datasets	Filter a broader range of workbook data by adding filters for file-based datasets using the Edit Definition dialog. See <a href="#">Filter a Dataset Table</a> .
Add time series functions	Perform forecasting and trend analysis with time series functions such as AGO, TODATE, and PERIODROLLING in workbooks. See <a href="#">Time Series Functions and Create Calculated Data Elements in a Workbook</a> .
Calculate duration more easily	Calculate duration in workbooks more easily between two dates or timestamps in your dataset. For example, calculation duration in years, quarters, months, weeks and so on. See <a href="#">Transform Editor Reference</a> .
Connect to Delta Share	Use Delta Share as a data source for workbooks. See <a href="#">Connect to Data Using Delta Sharing</a> .
Connect to OCI Data Flow SQL Endpoints	Connect to data from OCI Data Flow SQL Endpoints in workbooks. See <a href="#">Overview to Analyzing OCI Data Flow SQL Endpoints</a> .
Connect to OData V4	Create workbooks based on data from OData version 4. See <a href="#">Certification - Supported Data Sources</a> .

Feature	Description
Connect to Oracle Database with user credentials	Enable users to enter their own database credentials when connecting to Oracle Database. See <a href="#">Connect to an Oracle Database</a> .
Create datasets from files stored in OCI Object Storage	Create multi-table datasets for workbooks using files stored in OCI Object Storage buckets. See <a href="#">Create a Dataset from OCI Object Storage</a> .
Create more efficient workbooks	Create more efficient workbooks by making the underlying dataset query performance more consistent. Set the Data Access Mode to Automatic Caching to take advantage of this feature.
Enrich data with Digit-Only Keys in Custom Knowledge	Enrich data with Custom Reference Knowledge that now supports keys that are entirely made up of numbers. This enables you to use common categorization codes that are text but contain only digits such as UNSPSC codes. See <a href="#">Working with Digit-only Keys</a> .
Load data columns as measures or attributes using recommendations	Enrich data more effectively using an alert (magic wand icon) that indicates when there're enhancements available to interpret data columns as measures or attributes. In addition, you can view and select which columns to change or retain. See <a href="#">Change the Column Type of Measures and Attributes</a> .
Monitor data load history programmatically	Get reload history for your datasets using REST APIs. See <a href="#">Get reload history for a dataset</a> , <a href="#">Get latest reload history for a dataset</a> , and <a href="#">Get reload history for a dataset job</a> .
Monitor run history for data flows and sequences programmatically	Get run history for data flows and sequences using REST APIs. For data flows, see <a href="#">Get run history for a data flow</a> , <a href="#">Get latest run history for a data flow</a> , and <a href="#">Get run history for a data flow job</a> . For sequences, see <a href="#">Get run history for a sequence</a> , <a href="#">Get latest run history for a sequence</a> , and <a href="#">Get run history for a sequence job</a> .
Semantic Modeler supports generic JDBC connections	Build generic JDBC connections to access and model data sources with Semantic Modeler. See <a href="#">Data Sources Supported for Semantic Models</a> .
Update datasets incrementally	Update datasets incrementally using full-load (load all data), insert (add new data to existing data), or upsert (load new and updated data). See <a href="#">Load Dataset Data Incrementally</a> .

## Augmented Analytics and Machine Learning

Feature	Description
Assess machine learning models using quality metrics	Access machine learning models generated by AutoML using quality metrics accessed from a new Quality tab in the inspect model dialog. See <a href="#">Assess a Predictive Model's Quality</a> .
Deploy custom models for document classification and key value extraction	Perform document classification and key value extraction using custom models when integrating with Oracle Cloud Infrastructure Document Understanding. See <a href="#">Perform Document Classification and Key Value Extraction</a> .
Deploy custom OCI Language models	Deploy custom named entity recognition and text classification models directly from Oracle Analytics Cloud. See <a href="#">Use OCI Language Models in Oracle Analytics</a> .
Deploy OCI Face Detection models	Deploy OCI Face Detection models that can identify human faces and their landmark locations within an image, and provide a confidence score. See <a href="#">Use OCI Vision Models in Oracle Analytics</a> .

Feature	Description
Deploy OCI Language models more easily	Deploy OCI Language models such as sentiment analysis and key phrase extraction without having to specify the input language in workbooks. See <a href="#">Apply an OCI Language Model to a Dataset</a> .
Geometry column support in datasets	Allow a dataset to have a column of data type geometry for use in data driven map layers and spatial calculations. See <a href="#">Use Geometry Data Type Columns in Visualizations</a> .
Obfuscate content more selectively	When you deploy AI Language PII identification models, you have more control over what content is obfuscated. See <a href="#">Obfuscate Sensitive Data in a Dataset</a> .
Persist Auto Insights column selections and insight types	See your persisted column selections and insight types in the Insights Settings panel after you close and re-open the workbook. See <a href="#">Use Auto Insights to Get Immediate Insights into Your Data</a> .
Refresh Auto Insights to include filters	Refresh the Auto Insights panel after adding or updating a filter to see updated insights based on the filter. See <a href="#">Refresh Auto Insights to Include Filters</a> .
Review useful metadata AutoML models	Review useful metadata about models generated by AutoML using the model inspector tab in workbooks. See <a href="#">What Are a Predictive Model's Related Datasets?</a>
Use Contextual Insights to understand your data	Access meaningful insights about specific data selections in a visualization using Contextual Insights. See <a href="#">Use Contextual Insights to Understand Your Data</a> .

## Performance, Compliance, and Administration

Feature	Description
Control the default behavior for the <b>Limit Values By</b> option in workbooks	Determine if filter selections limit each other by default. Use the system setting <b>Default Limit Values By for Filters</b> to change the default behavior for your organization. The default behavior can be overridden in the workbook. See <a href="#">Performance and Compatibility Options - Default Limit Values By for Filter</a> .
Enable or disable workbook personalization	Control whether users can personalize workbooks using a system setting (Enable Personalization in Workbooks). See <a href="#">System Settings - Enable Personalization in Workbooks</a> .
Enable semantic models to load faster	Enable semantic models to load faster using multiple threads through system settings. See <a href="#">Performance and Compatibility Options - Load Semantic Models Using Multiple Threads</a> .
Filter deliveries more efficiently	Select multiple filters for your deliveries and apply them once, rather than one at a time. A more efficient way to search and monitor your deliveries. See <a href="#">Track the Reports You Distribute By Email or Through Agents</a> .
Generate email delivery reports	Generate a report that contains information about email deliveries and export your report to a CSV file. See <a href="#">Generate and Download a Deliveries Report (CSV)</a> .

Feature	Description
Grant permissions to analytics users at a finer grain than previously possible	<p>Use individual permissions to grant a range of user actions: export workbook data, download dataset files, export content to DVA files, manage security (users and application roles), manage snapshots, manage social channels, create and edit custom groups, create and edit shared layouts, create and edit shared themes, manage themes and layouts.</p> <p>Use individual permissions to provide access to each of these Console pages: Connections, Content, Extensions, Maps, and Virus Scanner.</p> <p>See About Permissions.</p>
Manage recipients for your deliveries in one place	View and edit the recipients for all your deliveries from the Monitor Deliveries page. An easier way to manage recipients for both email deliveries and agents. See View and Edit Recipients for Deliveries.
Save time when changing the time zone for multiple deliveries	Save time when changing the time zone for multiple deliveries. Multi-select deliveries and either set a new time zone for all the deliveries or update a specific time zone. See Change the Owner or Time Zone for Deliveries.
Understand snapshot password changes	Minimum password length increased to 14 characters (previously 8). See Export Snapshots.
Understand updates to catalog crawl scheduling	The default frequency for running a catalog crawl is monthly (previously weekly). The minimum number of days you can specify between catalog crawls is 7 days (previously 1 day). See Schedule Regular Content Crawls.
Validate and block queries in analyses	Develop custom validation scripts in JavaScript to validate analysis criteria and column formulas, and block invalid queries. See Validate and Block Queries in Analyses Using Custom JavaScript.

## What's Desupported in OAS 2025

See Features Desupported in Oracle Analytics Server.

## Product Guide Enhancements

New or enhanced content	Audience	More information
A new developers guide, which explains how to develop and extend an Oracle Analytics instance. For example, create and manage custom extensions, and embed analytics content in applications and web pages.	Developers	See <a href="#">Developer's Guide for Oracle Analytics Server</a> .

New or enhanced content	Audience	More information
A new REST API guide, which explains how to automate processes and programmatically access features and functionality in Oracle Analytics Server. For example, programmatically manage the catalog, safe domains, and system settings.	Developers	See <a href="#">REST API for Oracle Analytics Server</a> .

## What's New in Oracle Analytics Server 2024

Here's an overview of new features and enhancements added recently to improve your Oracle Analytics Server experience.

## What's New in Oracle Analytics Server 2024

### Exploring, Dashboarding, and Storytelling

Feature	Description
Add descriptions to tile visualizations	Annotate tile visualizations with descriptions to guide workbook consumers. See <a href="#">About Visualization Properties</a> .
Adjust the workbook filter bar	Specify the workbook's filter bar options in Present. Choose to make filters read-only; hide the filter menu; or add, remove, or disable filters. See <a href="#">Specify Workbook Filter Options in Present</a> .
Annotate workbook data with icons and emojis	Annotate table and pivot table labels with icons and emojis based on conditional formatting rules in workbooks. See <a href="#">What Can I Do With Conditional Formatting?</a> .
Auto Apply setting for parameters on filter bars	Specify if filter values selected from parameters on the filter bar are automatically applied to the workbook or if users need to manually apply them. See <a href="#">About Automatically Applied Filters</a> .
Bind double-column parameters to double-column list filters	Create a double-column parameter and bind it to a double-column list filter in a workbook. See <a href="#">Create and Bind a Parameter to a Double Column Filter</a> .
Bind parameters to list filters	Bind a parameter to a workbook's list filter to pass a selected filter value to the parameter. Binding a parameter to a workbook's list filter enables content authors to dynamically accept, store, and manipulate the parameter's stored values. See <a href="#">Bind a Parameter to an Existing Filter</a> .
Bind parameters to range filters	Bind parameters to a range filter's start and end date values or minimum and maximum numeric values in workbooks. See <a href="#">Create and Bind a Parameter to an Existing Filter</a> .
Choose a parameter's initial value from the list of available values	Create a workbook parameter with a list of available values and then select the parameter's initial value from a drop-down list of the available values. See <a href="#">About Parameter Properties</a> .
Conditional (rule based) annotations	Annotate data when it meets specified condition rules. See <a href="#">Add Conditional Formatting to Data</a> .

Feature	Description
Conditional formatting - rule blending	Blend rule styles. For example, allow one rule to color a cell and another rule to make the cell's font bold. See <a href="#">Add Conditional Formatting to Data</a> .
Configure line properties and transparency in line, area, combo, and overlay charts.	Configure line style, thickness, and transparency properties in line, area, combo, and overlay charts in workbooks. See <a href="#">Change the Pattern and Width of Lines in Graphs</a> .
Control validation of parameter values in workbooks	Specify whether to validate a parameter's initial and available values when saving the parameter and opening a workbook that uses the parameter. See <a href="#">About Parameter Properties</a> .
Control zoom in workbooks	Customize workbooks using Present for consumers to have zoom controls when viewing workbook content. See <a href="#">Show or Hide the Zoom Button for Consumers in Present</a> .
Copy and paste grammar columns (accessibility)	Copy and paste grammar columns more easily using keyboard shortcuts. See <a href="#">Accessibility Features and Tips</a> .
Create and manage watchlists as a consumer user	Create and manage watchlists as a consumer user to provide easy access to your favorite workbook visualizations. See <a href="#">Set the Workbook Properties in Present</a> , <a href="#">Set Canvas Properties in Present</a> , and <a href="#">About Watchlists</a> .
Create data actions from measures on composite tiles	Create data actions directly from measures on composite tile visualizations in workbooks. See <a href="#">Use Data Actions</a> .
Create data actions from tiles	Create data actions directly from tile visualizations in workbooks. See <a href="#">Use Data Actions</a> .
Create data actions that use the PATCH method	Create HTTP request data actions that use the PATCH method in workbooks. See <a href="#">Create HTTP Data Actions</a> .
Create parameters for subject area double columns	Use aliases and key values options to create parameters for double columns in workbooks. See <a href="#">Create and Bind a Parameter to a Double Column Type Filter</a> and <a href="#">Create a Parameter that Uses a Logical SQL Query for a Double Column</a> .
Create parameters with a single click	Use a single click in a workbook's list filter to create a parameter and bind it to the list filter. See <a href="#">Create and Bind a Parameter to a Filter</a> .
Curate compelling workbooks with Present enhancements	Use Present enhancements to easily curate compelling user workbooks. See <a href="#">What Is a Presentation Flow?</a>
Custom labels for tile secondary measures	Add a custom label to a tile visualization's secondary measures. See <a href="#">About Visualization Properties</a> .
Display or hide the visualization toolbar	Show or hide the visualization toolbar in Present for workbook users when curating a dashboard experience. See <a href="#">Specify How Users Can Interact With a Canvas</a> .
Draw reference lines for time based category columns	Draw reference lines, format, and control the z-order of reference lines for date and date-time category columns in workbooks. See <a href="#">Add Reference Lines to Visualizations</a> .
Enhanced data action rules	Use data actions to provide filter context values to target workbooks. See <a href="#">Use Data Actions</a> .
Enhanced scatter visualization properties	Create more powerful scatter visualizations using custom color for points, point outline and border, transparency, and connecting related points. See <a href="#">Scatter Graphs</a> .

<b>Feature</b>	<b>Description</b>
Enhance navigation in embedded workbook canvases	Enhance navigation in embedded workbook canvases using data actions. See <a href="#">Embed a Workbook and Visualizations in a Dashboard</a> .
Export table data to Excel format	Export formatted data from workbook tables or pivot tables to Excel. See <a href="#">Export Formatted Data from a Visualization to Excel</a> .
Filter workbooks using a list box	Use the List Box filter type in dashboard or visualization filters to provide a simplified list filter selection experience. See <a href="#">About the Dashboard Filter</a> .
Format colors in regions and point layers	Select colors in workbooks for regions and point layers in map layer properties. See <a href="#">Apply Multiple Data Layers on a Single Map Visualization</a> .
Format dates and times for subject area items	Format dates and times in subject area-based columns and calculations in workbooks. See <a href="#">About Visualization Properties</a> .
Format negative numbers in red more easily	Use a single click to quickly change the display format of negative numbers to red in workbooks. See <a href="#">Format Numeric Values of Visualizations</a> .
Format negative y-axis values	View 100% stacked bar charts with a negative y-axis for negative values in workbooks. See <a href="#">Bar Graphs</a> .
Format numbers with abbreviations in visualizations	Use single letters to represent the abbreviation of large measure numbers in workbook visualizations. See <a href="#">Set Scale Options for Numbers and Currency Values</a> .
Format parameter values	Format numeric parameter values based on the workbook user's locale. See <a href="#">About Parameter Properties</a> .
Format pieces of maps	Format pieces of map visualizations such as colors of borders and outlines, and widths of points, lines, and regions in workbooks. See <a href="#">Add an Outline to Points and Shapes on a Map</a> .
Format the line thickness in maps	Select the line thickness in a line map layer in workbooks. See <a href="#">Apply Multiple Data Layers on a Single Map Visualization</a> .
Include spark charts in tile visualizations	Configure spark charts in tile visualizations easily using a new grammar panel for workbooks. See <a href="#">Use Spark Charts to Examine Trends</a> .
Label tree maps and grid heatmaps	Label tree maps and grid heatmaps in workbooks, with advanced properties. See <a href="#">Add Data Labels to a Map</a> .
List box dashboard filter options	Use the custom values, null selectors, and All values options to specify a list box dashboard filter's selection options in workbooks. See <a href="#">About the Dashboard Filter</a> .
Localize custom workbook details	Localize custom user strings in workbooks such as workbook name, canvas name, visualization title, and custom labels. See <a href="#">Localize Data Visualization Workbook Captions</a> .
Locate invalid filters	Quickly identify and understand any invalid filters in a workbook. An icon indicating an invalid filter is displayed and you can hover over it to learn why the filter is invalid and how to fix it.
Maps conditional formatting	Highlight important data events in your map visualizations along with other visualization types. See <a href="#">What Can I Do With Conditional Formatting?</a>
Navigate canvases using top tabs	Choose the Top Tab workbook navigation style in Present to add the canvas navigation control to the top of workbooks. See <a href="#">Specify Workbook Canvas Navigation in Present</a> .

Feature	Description
Parameter enhancements	A parameter no longer requires an initial value, and can use the first possible data value as the initial value. Workbook authors can include a parameter on a tile visualization's secondary measure label. Use a Parameter in a Tile Visualization's Measure Label.
Parameters for reusable values	Create parameters in a workbook to use like variables to store and manage reusable values. You can use parameters as selectors that allow users to change their view of the data. You can also use parameters as controls, in a visualization's properties, in logical SQL expressions, expression filters, calculations, and in data actions and workbook navigation. See <a href="#">What Are Parameters?</a> and <a href="#">Create a Parameter</a> .
Pass aliases in data actions	Include aliases in parameters to send display values for each key value for target workbooks included in a data action. See <a href="#">About Parameter Properties</a> .
Pass parameter values to embedded workbook content	Use the <code>&lt;oracle-dv&gt;</code> embedding tag to pass parameter values to Oracle Analytics content embedded in applications. See <a href="#">Pass Parameters to the HTML Page</a> .
Personalize workbook filter values	Persist dashboard filter selections, visualization filters selections, and any visualizations with <b>Use as Filter</b> enabled when you reopen the workbook. Choose to revert personalized selections to the author-defined workbook. Turn off filter personalizations in the workbook's presentation flow. See <a href="#">About Filter Personalizations</a> and <a href="#">Specify Personalization Options in Present</a> .
Print all pages in classic dashboards	Print all pages in a dashboard in a single action. See <a href="#">Print Dashboards</a> .
Prompt dashboard users for filter values	Specify if the user is required to select a value for a parameter used as a dashboard filter in workbooks. See <a href="#">Create and Bind a Parameter to a List Box Dashboard Filter</a> .
Provide custom label names and set the selection mode	Specify label names for filters in visualizations in workbooks and set the filter controls for either single or multiple selection. See <a href="#">Customize the Label of Visualization Filters</a> , and <a href="#">Disable Multi-Select for Filters</a> .
Provide quick access to content from the navigation menu	Select curated workbook or dashboard folders when saving workbooks or dashboards, enabling a link to that workbook or dashboard to display on the Navigation menu (workbooks) or Dashboards menu (dashboards). See <a href="#">Begin to Build a Workbook and Create Visualizations</a> , and <a href="#">Create Your First Dashboard</a> .
Select a data column for parameter values	Choose a data column to populate a workbook parameter's available values. See <a href="#">About Parameter Properties</a> .
Set locale and language preferences in your user profile	Set locale and language preferences in your user profile to override browser settings. The user interface displays in the specified language, and time, date, and currency data display based on the specified locale. See <a href="#">Localize the User Interface for Data Visualization</a> .
Share watchlists	Share watchlists with workbook users to provide them with useful visualizations. See <a href="#">Share a Watchlist</a> .
Share workbook links with options including QR code	Share workbooks using links with various options such as QR codes.

<b>Feature</b>	<b>Description</b>
Show details on geometries on maps	Display descriptions or other information (such as metric and attribute values) on top of geometries on map visualizations in workbooks.
Show or hide the filter bar on dashboards	When designing a dashboard in the workbook's Present page, you can chose to show or hide the filter bar in the dashboard. See <a href="#">Show or Hide the Filter Bar on the Dashboard</a> .
Specify workbook and canvas header toolbar options	Use Present to show or hide toolbar options such as export, refresh data, notes, undo and redo, and revert personalizations at the workbook level. Override the workbook toolbar options at the canvas level. See <a href="#">Select Workbook Toolbar Options in Present</a> and <a href="#">Select Canvas Visualization Toolbar Options in Present</a> .
Specify workbook and canvas visualization toolbar and menu options	Use Present to show or hide visualization toolbar and menu options at the workbook level, and override the visualization toolbar and menu settings at the canvas level. See <a href="#">Specify the Workbook Visualization Actions in Present</a> and <a href="#">Specify Canvas Visualization Menu Options in Present</a> .
Style maps more easily	Style regions, points, and border lines in map visualizations display using default widths and colors if not customized by the user. See <a href="#">Enhance Visualizations with Map Backgrounds</a> .
Support for multiple digital signatures	Register multiple digital signatures and choose a digital signature for a PDF report. See <a href="#">Apply a Digital Signature</a> .
Time filter for deliveries	Use "last day" and "last 7 days" filters to quickly see your most recent deliveries. See <a href="#">Track the Reports You Distribute by Email or Through Agents</a> .
Use calculation columns for parameter available values	Choose a calculated column from the workbook's My Calculation folder to provide the parameter's available values. See <a href="#">About Parameter Properties</a> .
Use data actions to pass parameter values bound to filters to external workbooks	Enhance workbook navigation by passing parameter values bound to a list filter to a data action. See <a href="#">Use an Analytics Link Data Action to Pass Parameter Values</a> .
Use Go Noto as the default font for PDF output	Analyses, dashboards, and pixel-perfect reports now use Go Noto as the default font for PDF output. Oracle recommends that you test the Google Noto font in your reports and dashboards. See <a href="#">PDF Output Properties</a> , and <a href="#">Open-Source Fonts to Replace Licensed Monotype Fonts</a> .
Validate SQL statements for parameter values	Validate and find any errors in the SQL statements used to populate a workbook parameter's available and initial values. See <a href="#">About Parameter Properties</a> .
Visually demarcate sections with line spacers	Format canvases using line spacers in workbooks. See <a href="#">Filter and Other Visualization Types</a> .
Watchlists for easy access to content	Provide targeted links to analytics content from the Home page more easily and effectively. See <a href="#">Create a Watchlist</a> .

## **Data Connectivity, Modeling, and Preparation**

Feature	Description
Advanced database connection information	Specify the identifier type for database table names and column names, for example, single quotes "", double quotes "", or square brackets []. See <a href="#">Connect to Data With Upper, Lower, or Mixed-case Characters</a> .
Aggregate text columns in data flows	Aggregate text columns in data flows using various predefined delimiters. See <a href="#">What Steps Can I Use to Organize and Integrate My Data?</a>
Configure a usage tracking database in Semantic Modeler	Configure your usage tracking database in Semantic Modeler using a self-service data connection. See <a href="#">Specify the Usage Tracking Database Using Semantic Modeler</a> .
Connect to a data source with a REST endpoint	Connect to data sources via REST endpoints to analyze data from many transactional SaaS or PaaS applications without having to understand the internal format or structure of the data.. See <a href="#">Connect to Data from REST Endpoints</a> .
Connect to an Oracle Analytic Views instance	Use an Oracle Analytic View as a data source for workbooks. See <a href="#">Connect to Oracle Analytic Views</a> .
Connect to a usage tracking database using a data connection	Track usage in your Oracle Database or Oracle Autonomous Data Warehouse through a data connection. See <a href="#">Prerequisites For Usage Tracking</a> .
Connect to Delta Share	Use Delta Share as a data source for workbooks. See <a href="#">Supported Data Sources</a> .
Connect to Google Analytics V4	Use Google Analytics V4 as a data source for workbooks. See <a href="#">Supported Data Sources</a> .
Connect to MySQL Heatwave	Create analytics content based on MySQL Heatwave databases. See <a href="#">Supported Data Sources</a> .
Connect to Snowflake	Use a Snowflake database as a data source for pixel-perfect reports. See <a href="#">Set Up Connection to a Snowflake Data Warehouse</a> .
Connect to Vertica	Use a Vertica database as a data source for pixel-perfect reports. See <a href="#">Set Up Connection to a Vertica Data Warehouse</a> .
Enhanced search with synonyms	Make workbook content easier to search from the Home page by specifying synonyms for columns in your datasets. See <a href="#">Make Analytics Content Easier to Search</a> .
Enrich your data from the visualize canvas	Enrich your workbook data more easily by dragging data items based on knowledge enrichments onto the visualize canvas. In the data elements tree, look for an arrow indicating the availability of knowledge enrichments for each classified column. See <a href="#">Using Knowledge Enrichments in the Workbook Editor</a> .
Generate parent-child relationship table scripts	Generate SQL scripts that create and populate the relationship table required for a parent-child hierarchy in a semantic model. See <a href="#">Generate Scripts to Create a Parent-Child Relationship Table</a> .
Improve profiling of datasets based on local subject areas	Improve profiling of datasets based on local subject areas with a simple Top N sample. See <a href="#">Data Profiles and Semantic Recommendations</a> .
Merge data tables by column name	Merge data tables by column name in addition to the existing merge by column position when you use the Union Rows step in data flows for workbook data. See <a href="#">What Steps Can I Use to Organize and Integrate My Data?</a>
Reorder columns in data flows	Reorder columns when you prepare data using a data flow. See <a href="#">What Steps Can I Use to Organize and Integrate My Data?</a>

<b>Feature</b>	<b>Description</b>
Role-based filters	Create filters for datasets based on application roles to ensure that consumers of the datasets in workbooks see only data that's relevant to their roles. See <a href="#">Use Role-Based Filters in a Dataset</a> .
Schedule data flows more easily	Schedule data flows to execute regularly more easily from the action menu to prepare data for workbooks. You can also manage scheduled jobs from the jobs page. See <a href="#">Generate or Update a Dataset at a Specific Time</a> .
Secure delivery of pixel-perfect reports using the RFC8332 RSA keys	Deliver pixel-perfect reports through SFTP using the RFC8332 RSA keys (SHA-256 or SHA-512). See <a href="#">SSH Options for SFTP</a> .
Semantic Modeler	Semantic Modeler is a browser-based data modeling tool with a modern user interface. It provides a streamlined user experience for creating semantic models (governed data models) and is fully-integrated with Oracle Analytics. See <a href="#">Get Started with Semantic Modeling</a> .
Share data flows and sequences	Share data flows and sequences with other Oracle Analytics users, who can then use them to prepare data for workbooks. Sharing enables you to collaborate on data preparation projects and reuse Oracle Analytics assets and resources. See <a href="#">About Sharing Data Flows and Sequences</a> .
Specify permissions to share semantic models	Assign permissions to allow other developers to access and modify semantic models. See <a href="#">Use Permissions for Collaborative Semantic Model Development</a> .
Transform data using replace	Enhance your data in the transform editor by entering replacement strings for multiple values with a single transform. See <a href="#">Transform Data Using Replace</a> .

## Augmented Analytics and Machine Learning

<b>Feature</b>	<b>Description</b>
Auto Insight type selector	Fine tune your insights by selecting the types of visualization to suggest. See <a href="#">Specify the Visualization Types that Auto Insights Displays</a> .
AutoML mode in data flows	Let Oracle Analytics create a prediction model for you using the AutoML capability in Oracle Autonomous Data Warehouse. See <a href="#">Train a Predictive Model Using AutoML in Oracle Autonomous Data Warehouse</a> .
Deploy AI Language PII identification models	Deploy AI Language PII identification models to mask or hide sensitive data in a dataset. See <a href="#">Obfuscate Sensitive Data in a Dataset</a> .
Invoke pre-defined OCI Document Understanding models	Invoke predefined OCI Document Understanding models in data flows to perform document classification and key value extraction. See <a href="#">Overview to Document Classification and Key Value Extraction</a> .
Settings Pane available on all tabs in Explain	Use more comprehensive settings in workbooks to control the columns being used in all categories of Explain to fine-tune insights suggested for you (for example, basic facts, key drivers, or segments). See <a href="#">Use Explain to Discover Data Insights</a> .

## Performance, Compliance, and Administration

Feature	Description
Control form actions in safe domains	Allow or restrict form submissions in safe domains. See Register Safe Domains.
Control the user inactivity timeout	Option to customize the length of time that users are inactive before their browser or mobile connection must be re-authenticated. See System Settings - User Inactivity Timeout.
Delete mail server configuration	Clear mail server settings with a single click. See Set Up an Email Server to Deliver Reports.
Deliver pixel-perfect reports securely using RFC8268 new key exchange methods	Deliver pixel-perfect reports through SFTP using these RFC8268 Diffie-Hellman key exchange methods: <ul style="list-style-type: none"> <li>diffie-hellman-group14-sha256</li> <li>diffie-hellman-group16-sha512</li> <li>diffie-hellman-group18-sha512</li> </ul> See SSH Options for SFTP.
Grant individual permissions to user-defined application roles	Grant permissions to user-defined application roles at a finer grain than previously possible, enabling you to fine-tune your security. See About Permissions.
Restore delivery options	Greater flexibility when you restore deliveries on your system. You can restart deliveries immediately after you restore them or initially disable any deliveries that you restore. See Restore and Enable Delivery Schedules.
Save multiple objects in a single catalog archive file	Migrate content between environments more easily. Select multiple objects in the catalog and save the content to a .catalog file on your local file system. See Save Content to a Catalog Archive.
Sign out inactive users automatically	Automatically sign out users when the inactivity timeout is reached. See Security Options.

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Oracle Analytics What's New for Oracle Analytics Server,  
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