

## What's New for Oracle Analytics Desktop

Here's an overview of the new features and enhancements we've added to improve your Oracle Analytics Desktop experience. It's organized by when a specific feature or enhancement became available.

### Topics:

- [November 2023 \(7.5\)](#)
- [Earlier Features and Enhancements](#)

For the latest Oracle Analytics news, product features and updates, customer and partner stories, and market insights, see <https://blogs.oracle.com/analytics>.

## November 2023 (7.5)

### Exploring, Dashboarding, and Storytelling

Feature	Description
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> .
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 a Filter</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> .
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> .

Feature	Description
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> .
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 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 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> .
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> .
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 the Workbook Canvas Navigation in Present</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> .
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> .
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 the 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> .

## Data Connectivity, Modeling, and Preparation

Feature	Description
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> .
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> .

Feature	Description
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 Using Knowledge Enrichments in the Workbook Editor.

## Earlier Features and Enhancements

- [September 2023 \(7.4\)](#)
- [July 2023 \(7.3\)](#)
- [May 2023 \(7.2\)](#)
- [March 2023 \(7.1\)](#)
- [January 2023 \(7.0\)](#)
- [November 2022 \(6.9\)](#)
- [September 2022 \(6.8\)](#)
- [July 2022 \(6.7\)](#)
- [May 2022 \(6.6\)](#)
- [March 2022 \(6.5\)](#)
- [January 2022 \(6.4\)](#)
- [October 2021 \(6.3\)](#)
- [August 2021 \(6.2\)](#)
- [July 2021 \(6.1\)](#)
- [May 2021 \(6.0\)](#)
- [January 2021 \(5.9\)](#)

## September 2023 (7.4)

### Exploring, Dashboarding, and Storytelling

Feature	Description
Add descriptions to tile visualizations	Annotate tile visualizations with descriptions to guide workbook consumers. See About Visualization Properties.
Create data actions from tiles	Create data actions directly from tile visualizations in workbooks.
Create data actions from measures on composite tiles	Create data actions directly from measures on composite tile visualizations in workbooks.

Feature	Description
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> .
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.
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> .
Visually demarcate sections with line spacers	Format canvases using line spacers in workbooks. See <a href="#">Filter and Other Visualization Types</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>
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.
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> .
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> .
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> .
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 Type Filter</a> .
Share workbook links with options including QR code	Share workbooks using links with various options such as QR codes.

## Data Connectivity, Modeling, and Preparation

Feature	Description
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> .

## July 2023 (7.3)

### Exploring, Dashboarding, and Storytelling

Feature	Description
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 a Filter</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> .
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> .
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> .
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 Multiple Select for Visualization List Filters</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> .
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> .
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> .

## Data Connectivity, Modeling, and Preparation

Feature	Description
Connect to an Oracle Analytics Views instance	Use an Oracle Analytics View as a data source for workbooks. See <a href="#">Connect to Oracle Analytic Views</a> .

## May 2023 (7.2)

### Exploring, Dashboarding, and Storytelling

Feature	Description
Conditional (rule based) annotations	Annotate data when it meets specified condition rules. See <a href="#">Add Conditional Formatting to Data</a> .
Copy and paste grammar columns (accessibility)	Copy and paste grammar columns more easily using keyboard shortcuts. See <a href="#">Accessibility Features and Tips for Oracle Analytics Cloud</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> .

Feature	Description
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> .
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>
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.

## Data Connectivity, Modeling, and Preparation

Feature	Description
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>
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> .

## March 2023 (7.1)

## Exploring, Dashboarding, and Storytelling

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> .
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> .
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> .
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
Connect to MySQL Heatwave	Create analytics content based on MySQL Heatwave databases. See Supported Data Sources.
Connect to Vertica	Create analytics content based on Vertica databases. See Supported Data Sources.

## Augmented Analytics and Machine Learning

Feature	Description
AutoML mode in data flows	Let Oracle Analytics create a prediction model for you using the AutoML capability in Oracle Autonomous Data Warehouse. See Train a Predictive Model Using AutoML in Oracle Autonomous Data Warehouse.

## January 2023 (7.0)

### Exploring, Dashboarding, and Storytelling

Feature	Description
Control data refresh overlays in visualizations	Control how overlays are shown in visualizations using the Visualization Overlay property of workbooks. See Set Visualization Loading Overlay Opacity.
Display rows and columns of null values in pivot tables	Control how rows and columns of null values are displayed in pivot tables. This is especially useful when the top member of a hierarchy has a null value in Oracle Fusion Cloud Enterprise Performance Management or Oracle Essbase. See About Visualization Properties.
Configure the grid spacing between visualizations on the canvas	Configure the spacing of visualizations on the grid on the canvas. Use the Grid Guidelines property when the canvas is in Freeform mode. See Align visualizations Using Canvas Grid Guidelines.
Improved experience for the Grammar and Property panels	Easily navigate on the Property panel, which is now adjacent to the Grammar panel on all workbooks. You see a message alerting you to the workbook being in authoring mode.
Improved Home page	Easily navigate on the redesigned and styled Home page and take advantage of customization options.
Improved tile visualization	Try the improved tile visualization that allows you to add metrics to the tile while providing the layout and positioning of labels and values of the primary and secondary measures. See Filter and Other Visualization Types.
Improved Explain experience and segmentation algorithm	Try the improved user experience and enhanced algorithm supporting the Segmentation tab in Explain. Easily configure input for segmentation and export identified segments to use them directly on canvases. See Use Explain to Discover Data Insights.
Control bubble sizes on maps	Use bubbles to represent dots on a map. Set a minimum and maximum size in pixels for these bubbles, to control how cluttered the map looks depending on its zoom level and the density of the dots. See Apply Multiple Data Layers on a Single Map Visualization.

Feature	Description
Assign a map background to map layers	Configure map backgrounds and layers to make it easier for workbook designers to build map visualizations. See <a href="#">Update Custom Map Layers</a> .

## November 2022 (6.9)

### Exploring, Dashboarding, and Storytelling

Feature	Description
Filter data using a slider	Filter visualizations using a slider dashboard filter. You can visualize how your data changes interactively by selecting a measure value, or by playing through the measure automatically to display an animation. See <a href="#">Overview to Filtering and Animating Visualizations Using a Slider Dashboard Filter</a> .
Control workbook filter interactions from the filter bar	Control how all workbook filters interact from the workbook's filter bar. From the filter bar you can limit all related filters as specified for each filter, or turn off the limit by functionality. See <a href="#">Enable or Disable the Limit By Setting from the Filters Bar</a> .
Customize the appearance of the workbook header bar	Authors can show or hide the header bar, and customize the background and the text. Consumers can view the header bar configured by the author.
Thumbnails blurred to hide data	Workbook thumbnails displayed on the home page are blurred to hide sensitive content. Content authors can hide the thumbnail for individual workbooks as required. See <a href="#">Set Workbook Thumbnails</a> .

### Data Connectivity, Modeling, and Preparation

Feature	Description
Improved methodology of dataset semantic profiling	Enhancements to the random sampling depth and methodology that drives augmented features such as quality insights and recommendations. See <a href="#">What are Quality Insights?</a> .
Toggle sample data previews in metadata views	Allow users to switch off sample data previews in Metadata view to improve their user experience when previews aren't required. See <a href="#">Configure Columns Properties in a Dataset</a> .
Transform data with Convert to Date recommendations	Transform unrecognized dates more easily using single-click Convert to Date recommendations. See <a href="#">Accept Enrichment Recommendations</a> .

## September 2022 (6.8)

### Exploring, Dashboarding, and Storytelling

Feature	Description
Add your own custom table headers	Add your own custom headers for tables and pivot tables. See <a href="#">About Visualization Properties</a> .



Feature	Description
Create composite card style tile visualizations	Create composite card style tile visualizations to include up to three measures, and define the layout and sizing properties of each measure. See <a href="#">Filter and Other Visualization Types</a> .
Create personalized no-data messages	Create your own message to display when no data is found in a visualization. See <a href="#">Create a Custom Error Message for Visualizations with No Data</a> .
Filter data more easily	Filter your data more easily using a new compact filter bar giving quick access to popular filters such as Top-Bottom N and Exclude or Include. See <a href="#">Filter Data in a Workbook</a> .
Provide personalized tooltips for calculations	Provide additional information for My Calculations by entering a description for a calculation. The description displays in the tooltip of a calculation. See <a href="#">Create Calculated Data Elements in a Workbook</a> .

### Data Connectivity, Modeling, and Preparation

Feature	Description
Convert data to AM and PM format more easily	Convert data to AM and PM format more easily in the dataset editor. See <a href="#">Convert Text Columns to Date or Time Columns</a> .
Prepare data more quickly	Prepare your data immediately while Oracle Analytics Cloud profiles the data quality in the background. See <a href="#">About Data Enrichment and Transformation in Oracle Analytics</a> .
Prepare multiple data columns more easily	Prepare multiple data columns at the same time in the dataset editor. See <a href="#">Configure Column Properties in a Dataset</a> .

## July 2022 (6.7)

### Exploring, Dashboarding, and Storytelling

Feature	Description
Overlay charts	Use overlays to build multi-layered visuals in several more chart types, such as stacked bar charts with line, area, and category. You can also control the transparency of each layer. See <a href="#">Bar Graphs</a> .
Open workbooks in view mode	Workbooks open in view mode by default. You can use the <i>Open as a Viewer</i> property to change the workbook's default setting. See <a href="#">Configure a Workbook to Open in Edit Mode</a> .

## May 2022 (6.6)

### Data Connectivity, Modeling, and Preparation

Feature	Description
Add files to datasets with multiple tables	You can add files to datasets with multiple tables. When you create a dataset, you can add tables from relational sources, local subject areas, and files. Each new entity created in datasets can be based on any of these data sources. This enables you to add multiple files to one dataset where each file becomes a table and to define joins between tables within a dataset. See <a href="#">Create a Dataset from a File Uploaded from Your Computer</a> .
Add files from Dropbox and Google Drive to datasets with multiple tables	You can add files from Dropbox or Google Drive to a dataset with multiple tables. See <a href="#">Create a Dataset from a File Uploaded from Dropbox or Google Drive</a> .

## March 2022 (6.5)

### Data Connectivity, Modeling, Preparation

Feature	Description
Filter based on valid and invalid data in quality insights.	Quality Insights provides clear statistics about the validity of column values. Interact with the insight to filter column values based on their validity or invalidity. See <a href="#">Explore Your Data Using Quality Insights</a> .

### Exploring, Dashboarding, and Storytelling

Feature	Description
Apply conditional formatting to performance tiles.	Define conditional formatting for performance tiles along with other visualization types. See <a href="#">Apply Conditional Formatting to a Visualization</a> .
Provide authors fine-grain control on consumer options.	Authors have fine-grain controls in Present to set visualization actions for consumer interactions on the dashboard (for example Export, Copy Data, Drill, Sort, and Zoom).
Control the dashboard filter bar.	In the dashboard filter list box, use multiple filter options in the same control. Instead of putting six list boxes on the screen, manage a single filter bar with drop-down selections. See <a href="#">Create Dashboard Filters</a> .

## January 2022 (6.4)

### Exploring, Dashboarding, and Storytelling

Feature	Description
Redwood Design	Oracle Analytics fully adopts the new Oracle Design Concepts code-named Redwood. Product look and feel, as well as default colors and fonts will follow the Redwood guidelines created over years of research with close attention to usability and accessibility.

Feature	Description
My Calculations Properties	Custom calculations in workbooks show similar properties to other measures.
Consumer Mode Navigation: Bottom Tabs	Authors have a new Bottom Tabs presentation style for curating the consumer navigation experience. Authors can select this style from the Presentation property panel.
Change Settings for Multiple Columns	Save time when changing settings for multiple columns. Multi-select columns in the Metadata view to change the Data Type, the Treat As setting, the aggregation type, and the hide setting for more than one column at once. See Configure Columns Properties in a Dataset.
Inner radius of a donut chart	In a donut chart, control the radius of the donut hole. See Pie and Treemap Graphs.

### Augmented Analytics and Machine Learning

Feature	Description
Streamlined Advanced Analytics capabilities for some sources	For some datasets such as Oracle EPM and Essbase, we've streamlined the user-interface for advanced analytics so that you won't produce unexpected results.
XGBoost and Neural Network Algorithms for Machine Learning	Register and apply XGBoost and Neural Network algorithms with Machine Learning.

## October 2021 (Release 6.3)

Feature	Description
Oracle Transactional Business Intelligence and remote Oracle Analytics Server and Oracle Business Intelligence Enterprise Edition sources for datasets with multiple tables	Use the Oracle Applications connection to add tables from Oracle Transactional Business Intelligence and remote Oracle Analytics Server and Oracle Business Intelligence Enterprise Edition subject areas and reports to datasets containing multiple tables. See Create a Dataset from an Oracle Application's Subject Area and Create a Dataset from an Oracle Application's Analysis.
Position tables and pivot tables	Format visualizations more easily with enhanced positioning of tables and pivot tables.
Compute machine learning model lift and gain values	Evaluate prediction machine learning models more effectively using lift and gain statistics that you can visualize. See Evaluate Machine Learning Models Using Lift and Gain Charts.
Projects renamed to Workbooks	In the Oracle Analytics user interface and user assistance, "projects" have been renamed to "workbooks." Use workbooks to organize your visualizations just as you've done for projects.

## August 2021 (Release 6.2)

Feature	Description
Connect to Microsoft Azure Synapse	Visualize data from Microsoft Azure Synapse data sources. See Supported Data Sources.
Expression filters for entities in datasets with multiple tables	Use expression filters in datasets that contain multiple tables. See Apply a Filter to a Dataset Table.
Refresh profile results and recommendations	Refresh profile results and enrichment recommendations after you add or update custom knowledge. See Accept Enrichment Recommendations.
Annotations on canvases	In Visualize, add notes to canvases and tie notes to specific data points. See Add Notes to a Visualization.
Enhanced map visualizations with Mapbox libraries	Access smooth and powerful interactions with map visualizations through client-side libraries from Mapbox GL and WebGL.
Select multiple visualizations on a canvas	Multi-select visualizations on a canvas to easily change shared properties for groups of content. See Work with Multiple Visualizations on a Canvas.

## July 2021 (Release 6.1)

Feature	Description
Enable Oracle's Redwood experience	Use the preview dialog to enable Oracle's Redwood theme in Oracle Analytics before it becomes the default look and feel.
Conditional formatting	Use conditional formatting to highlight important data events in your visualizations so that you can take action. See Apply Conditional Formatting to a Visualization.
Null values in list filters	When a list filter with a large number of values is displayed, the list is refreshed when the user pages and when all possible values in the current page are selected. See Apply List Filters.
Automatic refresh of list filters	When a list filter with a large number of values is displayed, the list is refreshed when the user pages and when all possible values in the current page are selected. See Apply List Filters.
Control presentation mode interactivity for stories	When defining a story in Narrate, you can use the context menu to turn on and off the user interactivity options for the story in presentation mode.
Sort data in visualizations by columns that aren't in the visualization	Sort data in a visualization by a column that's not included in the visualization. See Sort, Drill, Select Data, and Apply Statistics in Visualization Canvases.
Print visualizations on canvases with enhanced options	Print visualizations on canvases with logical default print sizes based on the printing target and enhanced options for various sources. See Print a Visualization, Canvas, or Story.
Auto-join option in datasets with multiple tables	Use the Auto Join Tables option to turn off or on automatic join creation in datasets. By default, joins are created automatically when you drag and drop tables onto the Join Diagram. In some cases it's useful to turn auto joins off and build joins manually. See Disable Auto Joins in Datasets.

## May 2021 (Release 6.0)

Feature	Description
Hierarchy navigation for Essbase and EPM data sources	Navigate Essbase or Enterprise Performance Management (EPM) hierarchies when connecting to subject areas or datasets. You can drill up and down the hierarchy tree in pivot and table visualizations. You can't use hierarchies in filters but you can use a hierarchy level in a filter. See <a href="#">Sort and Select Data in Visualization Canvases</a> .
Customize auto-refresh in visualizations	Set the frequency at which the data automatically refreshes in visualizations on a canvas. See <a href="#">Visualize Canvas Layout and Properties</a> .
On-canvas filter types	Select various on-canvas filter types such as Top Bottom N and Relative Time. See <a href="#">Create On-Canvas Filters and Apply Different Filter Types</a> .
On-canvas date filters	Use the on-canvas date selector and the relative time filter for date filters. See <a href="#">Create On-Canvas Filters and Apply Different Filter Types</a> .
On-canvas measure filters	Use the on-canvas measure selector and the top and bottom time filter for measures. See <a href="#">Create On-Canvas Filters and Apply Different Filter Types</a> .
Tooltips on visualization titles	Enter your own tooltip text to display when you hover over a visualization title. See <a href="#">Visualize Properties</a> .
Improved sort options	Use the Sort dialog to configure sorts and clearly see the sort order and any sort conflicts. See <a href="#">Sort and Select Data in Visualization Canvases</a> .
Time series forecasting	Perform time series analysis forecasting directly from data flows. See <a href="#">Add a Time Series Forecast to a Data Flow</a> .
Graph analytics	Enhance your geospatial visualizations using powerful spatial analytics functions. For example, you can compute the shortest path between two vertices or identify connected vertices in the graph. See <a href="#">Add Graph Analytics to a Data Flow</a> .
Improved home page search	Enter advanced search commands in the search bar to tailor your search results for exact matches, multi-term matches, and field-level matches. See <a href="#">Advanced Search Commands for Finding Content</a> .
Map layers in non-joined datasets	Create map layers in a visualization where the data between the layers isn't joined. See <a href="#">Apply Multiple Data Layers on a Single Map Visualization</a> .
Average aggregation in Waterfall visualizations	When you add a Detail to a Waterfall visualization, the weighted average is calculated and displayed in the Bridge report.
Connect to Google BigQuery	Analyze data from Google BigQuery data sources. See <a href="#">Connect to Google BigQuery</a> .
Datasets with multiple tables	Perform self-service data modeling with datasets by adding multiple tables to a dataset from one or more relational data source connections. See <a href="#">Create a Dataset from a Connection</a> .

Feature	Description
Data quality insights	Explore your data, and use a visual overview of your content to assess and improve data quality. See <a href="#">Explore Your Data Using Quality Insights</a> .
Frequent Item Set function supports association rules	Create more powerful Frequent Item Set analyses using enhanced algorithms. See <a href="#">Database Analytics Functions</a> .
Oracle machine learning supports Feature Extraction	Apply a registered Oracle machine learning Feature Extraction model's view to a data flow. See <a href="#">Apply a Predictive or Oracle Machine Learning Model to a Dataset</a> .

## January 2021 (Release 5.9)

Feature	Description
Data Action: Avoid passing duplicate filters	When you create a data action using multiple data points to filter another canvas, and you return to the original canvas and invoke the data action using different data points, the new expression filter replaces the previous filter on the target canvas.
Data Action: Support single/multi selection	You can restrict the invocation of a data action to work only for a single value by setting <b>Supports Multiple Selection</b> to Off. You set this when the selection of multiple data points will result in an error (for example, with some third-party REST APIs).
Show database model full details in Oracle Analytics Cloud inspectors - Model Explainability	Oracle Analytics provides explainability about your registered Oracle machine learning models. Outputs describe how the Oracle machine learning model computes the predicted results for each record in the dataset and allow you to aggregate these results.
Show database model full details in Oracle Analytics Cloud inspectors - Visualize Database Views	Visualize a registered Oracle machine learning model's views to better understand the model and iteratively improve the model's overall accuracy.
Ability to add new map backgrounds	You can add a map hosted on a web server as a map background using the Web Map Service (WMS) protocol and XYZ tile layers.
Apply no sort to data	In visualizations, data is always sorted by default. You can use the <b>Sort By None</b> option to "unsort" or return the data to its original order.
Area chart visualization	In addition to the stacked area and 100% stacked area, you can visualize data in an area chart.
Improved chrome density in the data panel	The data panel across all visualization editors uses horizontal tabs instead of vertical tabs, and the density of the tree content is increased.
Improved progress bar behavior	The blue bars that were previously visible across the screen when data was refreshed have been removed. The data refresh experience is more subtle. Hover the mouse pointer over a visualization to see refresh details or to cancel.

Feature	Description
Pass filters between the filter bar and visualizations	Filters for a canvas or project are defined on the top bar, and filters for a visualization are defined on the grammar. You can move a filter from one scope to another.
Respect the canvas aspect ratio when exporting	You can select to maintain the canvas aspect ratio, ensuring that the outcome is closest to your intent.
Sort by multiple columns	You can select multiple sort columns for a visualization. You can create nested sorts based on a combination of the attributes and measures in the visualization.
Trim spaces on text columns	You can easily trim or remove leading and trailing spaces on text columns using the transform options menu.
Support for database text tokenization in data flows	An advanced text-analytics technique is applied to user data to identify and list the words most frequently appearing within a text data-column.
Support for Database Frequent Item Set (Market Basket) in data flows	Discover relationships in your data by identifying sets of items that often appear together. This data mining technique is known as association rule learning, affinity analysis, and market basket analysis.

## Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Oracle Analytics What's New for Oracle Analytics Desktop,  
E76890-40

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This document describes new features and other notable changes for Oracle Analytics Desktop.

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