

# **Oracle® Hyperion Financial Reporting Web Studio**

User's Guide

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# Contents

Documentation Accessibility .....	xi
Documentation Feedback .....	xiii
<b>1 Overview of Financial Reporting Web Studio</b>	
About Financial Reporting Web Studio .....	1-1
Services That Use Financial Reporting Web Studio .....	1-1
Accessing Financial Reporting Web Studio .....	1-1
<b>2 Designing Reports</b>	
Before Designing a Report .....	2-1
Design Considerations .....	2-1
Report Performance .....	2-2
Data Queries - Expanded Versus Single Data Segments .....	2-2
Suppressing Missing Blocks .....	2-2
Renaming Dimensions and Members .....	2-2
Designing Dynamic Reports .....	2-3
Planning as a Database Connection .....	2-3
Support for Workforce Planning Smart Lists .....	2-4
Database Connection for Essbase and Planning .....	2-4
Using Financial Reporting Web Studio to Design a Report .....	2-5
Working with Report Objects .....	2-5
Adding Report Objects .....	2-6
Positioning Report Objects .....	2-6
Resizing Report Objects .....	2-7
Defining Properties for Report Objects .....	2-7
Inserting Page Breaks Before Report Objects .....	2-7
Saving Report Objects .....	2-8
Inserting Saved Report Objects .....	2-8
Removing Report Objects .....	2-9
Using Linked and Local Objects .....	2-9

Defining the User Point of View .....	2-10
About the User Point of View .....	2-10
Setting Up the User Point of View .....	2-11
Creating Headers and Footers .....	2-11
Creating a Title Page .....	2-12
Using Text Functions to Display Information .....	2-12
Searching for Information in the Repository .....	2-12
Filtering Repository Items .....	2-13
Viewing Report Summaries .....	2-13
Viewing Report Server Information.....	2-13

### 3 Working With Grids

About Grids .....	3-1
Adding a New Grid.....	3-1
Inserting an Existing Grid .....	3-2
Selecting a Grid .....	3-2
Defining the Grid Point of View .....	3-3
About the Grid Point of View .....	3-3
Setting Up a Grid Point of View.....	3-3
Showing or Hiding the Grid Point of View .....	3-4
Selecting Members for the Grid Point of View .....	3-4
Working With Rows and Columns in Grids.....	3-5
Inserting Rows and Columns .....	3-5
Changing the Row Height and Column Width.....	3-6
Defining Row and Column Headings.....	3-7
Overriding a Row or Column Heading .....	3-7
Cutting, Copying, and Pasting Rows and Columns .....	3-8
Inserting Page Breaks Before a Row or Column.....	3-8
Defining Formula Rows and Columns .....	3-8
Adding Auto Calculations to Data Rows and Columns .....	3-16
Applying Formatting to Auto Calculated Data Rows and Columns .....	3-18
Using Row and Column Templates .....	3-19
Formatting Grids.....	3-25
Formatting Numbers in Grids.....	3-25
Using Special Currency Formats.....	3-26
Aligning the Text in a Grid .....	3-27
Replacing Text in a Grid Cell .....	3-28
Hiding Rows, Columns, or Grids.....	3-28
Sorting Rows, Columns, or Pages in Grids .....	3-29
Modifying the Font .....	3-29
Creating Custom Colors.....	3-30
Adding Borders and Shading to Cells in Grids .....	3-31
Freezing Grid Headers .....	3-31

Hiding Grid Lines .....	3-31
Inheriting Cell Formatting .....	3-31
Copying Cell Formatting.....	3-32
Merging Several Cells Into One Cell .....	3-33
Using the Formula Bar .....	3-33
Creating Formulas.....	3-33
Deleting a Formula Row or Column .....	3-34
Modifying Member Selection Using the Formula Bar .....	3-34
Example Report with Formulas .....	3-35
Assigning Multiple Database Connections to a Grid .....	3-36
Setting Data Query Optimization Options .....	3-37
Showing Supporting Detail for Planning.....	3-38
Displaying Line Item Detail for Financial Management.....	3-39
Saving a Grid .....	3-39
 <b>4 Working With Text Objects</b>	
Adding Text Objects.....	4-1
Adding a New Text Object.....	4-1
Inserting an Existing Text Object.....	4-2
Formatting Text Objects.....	4-2
Defining Fonts for Text.....	4-2
Adding Borders and Shading to Text.....	4-3
Aligning Text .....	4-3
Saving Text Objects .....	4-3
 <b>5 Working With Images</b>	
Inserting Images.....	5-1
Formatting Images.....	5-2
Saving Images .....	5-2
 <b>6 Working With Charts</b>	
About Charts .....	6-1
Inserting a Chart .....	6-2
Defining Chart Data .....	6-2
Defining Chart Titles, Legends, and Labels.....	6-3
Defining Chart Titles.....	6-3
Defining Chart Legends .....	6-3
Defining Chart Axis Titles.....	6-4
Defining Axis Labels.....	6-4
Formatting Charts.....	6-5
Formatting Fonts .....	6-6
Formatting Borders .....	6-6
Formatting Bars in Bar and Combo Charts .....	6-6

Formatting Lines in Line and Combo Charts.....	6-7
Formatting Combo Charts .....	6-7
Formatting Pie Charts.....	6-8
Formatting Background and Gridline Options.....	6-8
Defining Styles for Data Sets .....	6-8
Positioning Charts in Reports .....	6-8
Resizing and Moving Charts.....	6-9
Saving Charts .....	6-9
Updated Charting Engine.....	6-10
Overall Appearance .....	6-10
Chart Data Point Sizing and Display.....	6-11
Font Angles .....	6-15
Tabs in the Format Chart Dialog Box .....	6-16

## 7 Defining Members

About Defining Members.....	7-1
Assigning Members.....	7-1
Assigning Members to Data Rows or Columns.....	7-1
Assigning Members to the Page Axis.....	7-2
Defining Special Types of Members.....	7-3
Assigning Members Using Functions .....	7-5
Searching For Members .....	7-12
Sorting Members .....	7-13
Previewing Selected Members.....	7-13
Copying Members Names From a Text Application.....	7-14
Removing Members .....	7-14
Selecting Multiple Members .....	7-14
Filtering Members .....	7-15
Defining and Editing Member Lists.....	7-16
Defining Member Lists .....	7-16
Editing Member Lists.....	7-16
Access Privileges for Members in the Planning Database Source .....	7-17

## 8 Formatting Reports

Formatting Best Practices .....	8-1
Changing the Page Setup.....	8-1
Using Conditional Formatting .....	8-2
About Conditional Formatting.....	8-2
Applying Conditional Formatting.....	8-3
Changing the Order of Conditional Formats .....	8-5
Deleting Conditional Formats .....	8-5
Deleting Conditions .....	8-6
Conditional Formatting Example .....	8-6

Using Conditional Suppression .....	8-9
About Conditional Suppression.....	8-9
Conditional Suppression Behavior .....	8-10
Defining Basic Conditional Suppression .....	8-11
Defining Advanced Conditional Suppression .....	8-12
Deleting Conditional Suppression.....	8-14
<b>9 Providing For Detailed Data and Documents in Reports</b>	
Setting Up Expansions to Access Detailed Data in Reports .....	9-1
Positioning Expansion Rows and Columns.....	9-2
Working With Related Content .....	9-2
About Related Content .....	9-3
Creating a Link to Related Content .....	9-4
Modifying the Properties For Related Content .....	9-6
Specifying Related Content Link Descriptions .....	9-6
Examples of Related Content Results When Specified in Grid Cells .....	9-7
Removing Access to Related Content .....	9-8
Changing the Related Content Server for Multiple Reports or Grids in the Repository .....	9-8
Attaching Cell Documents in a Report.....	9-9
Supported Microsoft Office File Types .....	9-9
Viewing Reports Containing Cell Documents .....	9-10
Displaying a List of Cell Document.....	9-10
Printing Cell Documents .....	9-10
Printing a List of Attached Cell Documents .....	9-11
Using Smart View for Office .....	9-11
<b>10 Previewing and Printing Reports</b>	
Previewing Reports .....	10-1
Responding to Prompts When Previewing .....	10-1
Printing Tips for Designers .....	10-2
Positioning and Alignment.....	10-2
Printing Text Boxes .....	10-2
Printing Grids .....	10-3
Printing Page Dimension Headings .....	10-3
Printing Headers and Footers.....	10-4
<b>11 Using Functions</b>	
Mathematical Functions.....	11-1
About Mathematical Functions .....	11-1
Abs.....	11-8
Average.....	11-9
AverageA.....	11-10
CountA.....	11-10

Difference.....	11-11
Eval.....	11-12
Max.....	11-13
Min.....	11-14
PercentofTotal.....	11-14
Product.....	11-15
Round.....	11-16
Sum.....	11-17
Truncate/Truc.....	11-18
Text Functions.....	11-19
About Text Functions.....	11-20
Annotation.....	11-26
CalcStatus.....	11-28
CellText.....	11-29
Date.....	11-32
DataSource.....	11-35
DPDescription.....	11-36
DPJustification.....	11-37
DPNotesAndAttachments.....	11-39
Footnote.....	11-40
GetCell.....	11-42
GetHeading.....	11-43
GridDimension.....	11-45
HFMCurrency.....	11-45
ListofCellDocuments.....	11-46
MemberAlias.....	11-47
MemberDescription.....	11-48
MemberName.....	11-50
MemberProperty.....	11-51
MemberQualifiedName.....	11-52
Page.....	11-53
PageCount.....	11-54
PlanningAnnotations.....	11-54
ProcessManagementStatus.....	11-56
ReportAuthor.....	11-57
ReportCreated.....	11-57
ReportDesc.....	11-58
ReportFolder.....	11-58
ReportModified.....	11-59
ReportModifiedBy.....	11-59
ReportName.....	11-60
ReportRunBy.....	11-60
RetrieveValue.....	11-60



Conditional Functions.....	11-60
IFThen, If.....	11-60
Conditional Operators .....	11-61
Complex Conditions .....	11-72
Financial Functions.....	11-74
Rank.....	11-75
Variance/Var .....	11-77
VariancePercent/VarPercent.....	11-78



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# Overview of Financial Reporting Web Studio

## Related Topics:

[About Financial Reporting Web Studio](#)

[Services That Use Financial Reporting Web Studio](#)

[Accessing Financial Reporting Web Studio](#)

## About Financial Reporting Web Studio

Oracle Hyperion Financial Reporting Web Studio is a web-based report authoring solution. Similar in look and feel to the Windows-based Oracle Hyperion Financial Reporting Studio, Financial Reporting Web Studio incorporates usability improvements and updated report design paradigms. The existing Windows Reporting Studio is currently still available. Because the report definitions remain the same, you can edit existing reports using the Windows or web version of Financial Reporting Studio interchangeably.

This release includes most of the functionality currently available in the Windows Reporting Studio, except for: the ability to edit multiple reports at the same time.

## Services That Use Financial Reporting Web Studio

The following services use Oracle Hyperion Financial Reporting Web Studio:

- Enterprise Planning and Budgeting Cloud
- Planning and Budgeting Cloud
- Financial Consolidation and Close Cloud
- Profitability and Cost Management Cloud

## Accessing Financial Reporting Web Studio

To access Oracle Hyperion Financial Reporting Web Studio from Oracle Hyperion Enterprise Performance Management Workspace, select **Tools**, and then **Launch Reporting Web Studio**.





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# Designing Reports

## Related Topics:

[Before Designing a Report](#)  
[Design Considerations](#)  
[Using Financial Reporting Web Studio to Design a Report](#)  
[Working with Report Objects](#)  
[Defining the User Point of View](#)  
[Creating Headers and Footers](#)  
[Creating a Title Page](#)  
[Using Text Functions to Display Information](#)  
[Searching for Information in the Repository](#)  
[Filtering Repository Items](#)  
[Viewing Report Summaries](#)  
[Viewing Report Server Information](#)

## Before Designing a Report

Before designing a report, consider:

- What is the goal of the report?
- Who are the end users of the report?
- How frequently is the report generated and by how many users?
- What is an acceptable retrieval/generation time?
- How many cells does the report query before suppression?

## Design Considerations

### Related Topics:

[Report Performance](#)  
[Data Queries - Expanded Versus Single Data Segments](#)  
[Suppressing Missing Blocks](#)

[Renaming Dimensions and Members](#)

[Designing Dynamic Reports](#)

[Planning as a Database Connection](#)

[Support for Workforce Planning Smart Lists](#)

[Database Connection for Essbase and Planning](#)

## Report Performance

Report performance can vary for each user. What is acceptable for one user may not be acceptable for another. For example, if reports are run in batches during off-peak hours, they may have to be completed before the next business day. When data is updated hourly, report performance may only be acceptable if report output returns in seconds.

## Data Queries - Expanded Versus Single Data Segments

A data segment is a row or column that retrieves data from a database. An expanded data segment is a row or column that can expand, so that the resulting grid expands to two or more rows or columns when viewed. Often, expanded data segments use functions such as *Children Of* or *Descendants Of*. A single data segment is a row or column that remains a single row or column when shown in the viewer.

While it is generally valid to use expanded and single data segments in the same grid, when designing a grid with large amounts of data, consider using expanded data segments rather than single data segments. Expanded data segments provide some performance advantages over single data segments; however, to produce detailed formatting on different data rows or columns, use single data segments.

## Suppressing Missing Blocks

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### Note:

The ability to suppress missing blocks is available for Oracle Hyperion Planning users only.

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You can suppress missing blocks to improve performance when rows or columns contain sparse dimensions. When you suppress missing blocks, you can place large sparse dimensions in rows, while providing good response time if the density of the query is low. Only blocks with data are retrieved. For example, if you place an employee dimension consisting of thousands of members in rows, and place the entity in the page or POV, then only employees of the selected entity are retrieved.

Suppressing missing blocks aids in suppressing missing data when a large number of rows, such as 90% or more, is suppressed. Suppressing missing blocks can degrade performance, however, if few or no rows are suppressed. Also, certain suppressed blocks may ignore dynamic calculation members.

## Renaming Dimensions and Members

If you rename the dimensions or members in the data source, you must manually update each report in Oracle Hyperion Financial Reporting Web Studio to reflect the changes.

## Designing Dynamic Reports

When designing dynamic reports:

- Use expanded data segments for optimal performance:
  - Use functions on expanded data segments that are not placed on separate rows or columns.
  - Use multiple member selections on expanded data segments that are not placed in separate rows or columns.
  - Use single data segments only when required for formatting or calculations.
- Write efficient formulas:
  - Use row or column formulas rather than cell formulas, when possible.
  - Use reference properties.
  - Use a cell reference instead of cross-axis references.
  - Remove unnecessary parenthesis from formulas.
- Do not limit your report to the Grid object:
  - Add functions in text boxes that highlight specific areas.
  - Hide a grid of data in a report to highlight just the graphics.
- Create report templates:
  - Leverage the power of POVs and prompting functions.
  - Design once using the Current POV and prompting functions.
  - Learn the power of Grid, User, Book, and Batch POVs.
- Create reusable objects and row and column templates.

You can use Text, Image, Grid, Chart objects, and row and column templates in multiple reports.

## Planning as a Database Connection

Once you install the Oracle Hyperion Planning ADM driver, you can select Planning as a database connection. The Planning Details ADM driver is optimized as a data source to provide features such as supporting details, planning unit annotations, and metadata filtering. If your report grid does not use these Planning features, for optimal performance, choose Oracle Essbase as the database connection for your report. For more information, see [Showing Supporting Detail for Planning and Planning Annotations](#).

### Additional Considerations

- Attribute dimensions are not supported as dimensions in Planning. (Use the `MemberProperty` text function to display attribute values in your report.)
- `Hsp_Rates` is not available as a dimension when using the Planning data source.

- Member selections using any level but level 0 are not supported.

## Support for Workforce Planning Smart Lists

Smart Lists are attribute-like values assigned to members, where the actual assignment is stored as data in the Oracle Essbase cube for the member (for example, 0, 1, 2, 3, 4) and the Oracle Hyperion PlanningRepository translates those numbers to textual strings (for example, 0="Straight Line Depreciation", 1="Double Declining Balance").

### Examples of Financial ReportingSupport of Smart Lists:

- Grids which reference cells in a Planning database that contain Smart Lists return a string value instead of a number. String values are always shown in the results instead of numbers.
- The text function `GetCell()` returns the string value instead of a number when it references a cell containing a Smart List.
- Using numeric comparison operators and string comparison operators (for example, equals and startswith), conditional formatting, and suppression allows selection of any cell (Data, Formula, Text) with the "Cell Value" operand. For example, conditional suppression can refer to a data cell that contains a Smart List string and apply conditional suppression such as "suppress row if cell value B6 starts with 'ABC'".
- You can apply conditional formatting and suppression to Workforce Planning or Smart List textual data.
- When a Smart List string is retrieved from Planning, the string value (for example "Meets") and numeric values are stored and are available, enabling the following capabilities:
  - Conditionally suppress and conditionally format based on either the Smart List string value or the underlying numeric value.
  - Sort rows or columns that have Smart List values mixed with numeric data-cell values. When this occurs, the Smart List numeric is used in the comparison with the other numeric cell values.
  - Access the Smart List numeric value through a formula reference to the cell. All formula references to Smart-List cells operate on the Smart List numeric value.

## Database Connection for Essbase and Planning

When you change a report from an Oracle Essbase database connection to a Oracle Hyperion Planning database connection or vice versa, there are several restrictions because the data source reference is the only change.

### Changing From Essbase to Planning

- The dimensions and functions defined in reports and books must exist in the target data source. The following limitations apply:
  - Attribute dimensions are only supported for Essbase.
  - `Hsp_Rates` is not available as a dimension.

- The cell text function cannot be used, because Linked Reporting Objects (LROs) are not supported.
- Only the member selection using a level 0 is supported.
- Validate that dimensions exist prior to opening the report.  
If a dimension defined on a grid is not available in the Planning Details data source, no change is made. If an invalid function is used, an error is returned. Report designers must remove the invalid function or dimension.

### Changing From Planning to Essbase

The following features that you can define in a Planning report are irrelevant for an Essbase report.

- Planning Annotations
- Supporting Detail
- Order By

If Supporting Detail is defined in the report, the details are ignored. If Planning Annotations or Order By are used, they return an error. Report designers must remove the Planning Annotation and Order By functions in order to run the report.

## Using Financial Reporting Web Studio to Design a Report

You design reports using a blank report layout where you can specify the contents of the report, including grids, charts, images, text boxes, headers, and footers.

To design a report:

1. In Oracle Hyperion Financial Reporting Web Studio, click 
2. Design the report in the **Report** tab.

## Working with Report Objects

Report objects include:

- Grids
- Text
- Images
- Charts

When you add report objects to a report, you define their position in the report layout, and you select the data content for the report object. You can also insert report objects previously stored in the repository. You can use report objects in multiple reports.

After you add a report object to a report, you can assign properties to it such as format options. Format options include font, alignment, spacing, shading, and positioning.

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**Note:**

The ability to delete reports and folders is currently unavailable in Oracle Hyperion Financial Reporting Web Studio.

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## Adding Report Objects

To add a report object to a report, do one of the following:

- Click the icon for the report object     , and then draw an outline for the object in the desired position in the **Report** tab.
- Select **Insert**, then **Grid**, **Text**, **Image**, or **Chart**, and then draw an outline for the object in the desired position in the **Report** tab.
- In the **Report** tab, in the **Header**, **Body**, or **Footer** section, click  , and then select the report object to add. (This draws a fixed size object in a pre-determined location in the Report Designer. You can then re-size or move the object if desired.)

**Tip:**

If you add a report object in one of the sections (Header, Body, or Footer) in the Report Designer, and you want to add another report object in a different section, you must first click the name of the report (above the Header, Body, and Footer) to get back to the "layout view." You can then go to another section in the Report Designer and add another object.

**Tip:**

After you add a report object to a report, you can use the mouse to hover over the object and display the object name.

## Positioning Report Objects

Positioning report objects involves placing objects in the desired positions as you design the report in Oracle Hyperion Financial Reporting Web Studio. For example, you can position a text box on the top left of the report, and position a grid in the center of the report. How you position objects affects the online report and the printed page.

It is important to position report objects because the objects can change size depending on the amount of data they contain.

You can set the position of a report object relative to other report objects. For example, if report objects above a specific report object increase or decrease in size, the specific report object moves as necessary to maintain the same distance between it and the other report objects. If you do not position a report object, the report object is printed at its current location regardless of whether other report objects increase or decrease in size.

Overlapping objects enables you to organize the objects when laying out a report. When you overlap objects, you can send a report object to the back (behind another object) or bring it to the front (ahead of another object).

When working with multiple overlapped objects, you can print the report regardless of your object layout. For example, if a portion of a text box overlaps a chart, or if layers of charts are placed on top of one another, you can still print the report. Keep in mind, however, that the overlapping objects may not print as displayed in Financial Reporting Web Studio, and you may need to rearrange the objects as you design your report.

To position a report object, do one of the following:

- Click the report object and drag it to the desired position.
- Select the report object, then in the object's **Properties**, under **Position**, select the object's horizontal and vertical position in the report.

## Resizing Report Objects

You can resize report objects so that they are displayed fully expanded or at a specified height and width when you preview or print a report. When you resize report objects, the content remains the same size, but the space around the contents changes. For example, you can drag a grid border to reserve an amount of space to the left of the grid. When you view the grid, the area to the left of the grid remains blank.

In addition to resizing report objects, you can design reports to automatically increase the size of text objects and grids as more area is needed to include all resulting data.

To resize a report object:

1. Click the name of the report that contains the object to return to the report "layout view".
2. Click the object.  
The object's border is highlighted in red to indicate that the object is selected.
3. Click on the border of the object and drag it to change the size.

To automatically resize text objects and grids:

1. Select the text object or grid in the section where it is inserted.  
You can insert text objects in the Header, Body, or Footer sections. You can insert grids only in the Body of a report.
2. In **Text Properties** or **Grid Properties**, select **Autosize**.

## Defining Properties for Report Objects

When you select a report object, the corresponding properties for the object are displayed on the right side of the design area. For example, when you select a grid, the **Grid Properties** are displayed. Properties allow you to set options for the report object.

## Inserting Page Breaks Before Report Objects

You insert a page break before a report object to move the report object to the next page.

To insert a page break before a report object:

1. In the **Report** tab, select a report object.


2. In the report object's properties, select **Page Break Before**.

## Saving Report Objects

When you save a report object, you create a link between the source object in the report and the source object in the repository. When you save report objects in the repository, you can reuse them as desired. This saves time and allows you to build a library of report objects to use when creating reports. When you save report objects in the repository, only the report object is saved, not the entire report design.

To save a local report object to the repository:

1. In the **Report** tab, do one of the following:

- Right-click the report object, and then select **Save**.
- Select the report object, and then click .

2. In the **Save Report Object** dialog box, select a folder or create a new folder.

3. In **Name**, enter the report object name.

You can use upper and lowercase letters, spaces and numbers. You cannot use the following characters: %, ?, +, <, >, |, @, #, \$, ^, &, \*.

4. In **Description**, enter the description of the report object.

5. **Optional.** Select **Link to source object** to create a link from the local object in the report to a source object in the repository.

The option to link to a source object is available only if you have inserted an existing object into a report and are now saving it in order to update the source and any other dependent objects in other reports. When you save an object for the first time, the option to link to a source object is disabled since there is no pre-existing source object.


6. Click **Save**.

## Inserting Saved Report Objects

You can insert saved grids, text, images, and charts from the repository into a report.

To insert a saved report object:

1. From the Report Designer, do one of the following.

- Click in a section in the **Report** tab, then select **Insert**, and then **Saved Object**.
- Right-click in a section in the **Report** tab, and select **Insert Object**, and then **Saved Object**.
- Click  next to **Header**, **Body**, or **Footer**, and then select **Saved Object**.

The objects available to insert depend on the section selected; for example, only image and text objects are available to insert in the **Header** and **Footer** sections.

2. In the **Insert Saved Object** dialog box, specify the object to insert.




3. **Optional:** Select **Link to Source Object** to link the saved object to the source object. (See [Using Linked and Local Objects](#))
4. Click **Insert**.

## Removing Report Objects

When you remove a linked report object from a report, it is removed from only the report and not from the repository. You can still use the source report object in other reports.

To remove a report object from a report, do one of the following:

- In the **Report** tab, right-click the report object, and then select **Delete**.
- In the **Report** tab, select the report object, then select **Edit**, and then **Delete**.
- In the **Report** tab, under the **Header**, **Body**, or **Footer** section, select the report object, and then click .

## Using Linked and Local Objects

When you save report objects to the repository, you can use them as a resource for other reports. You can insert the report objects into other reports as linked or local (unlinked) objects and use them “as is” or customized.

Linked objects are saved both in the current report and in the repository. You can link the object in the report to the source object in the repository so that modifications to the source object are reflected in the object that exists in the report. When you update a source object, the changes apply to the source object in the report and to all the objects that are linked to it in other reports.

You define whether to link a report object when you:

- Save a report object in the repository
- Insert an object from the repository into a report

---

**Note:**

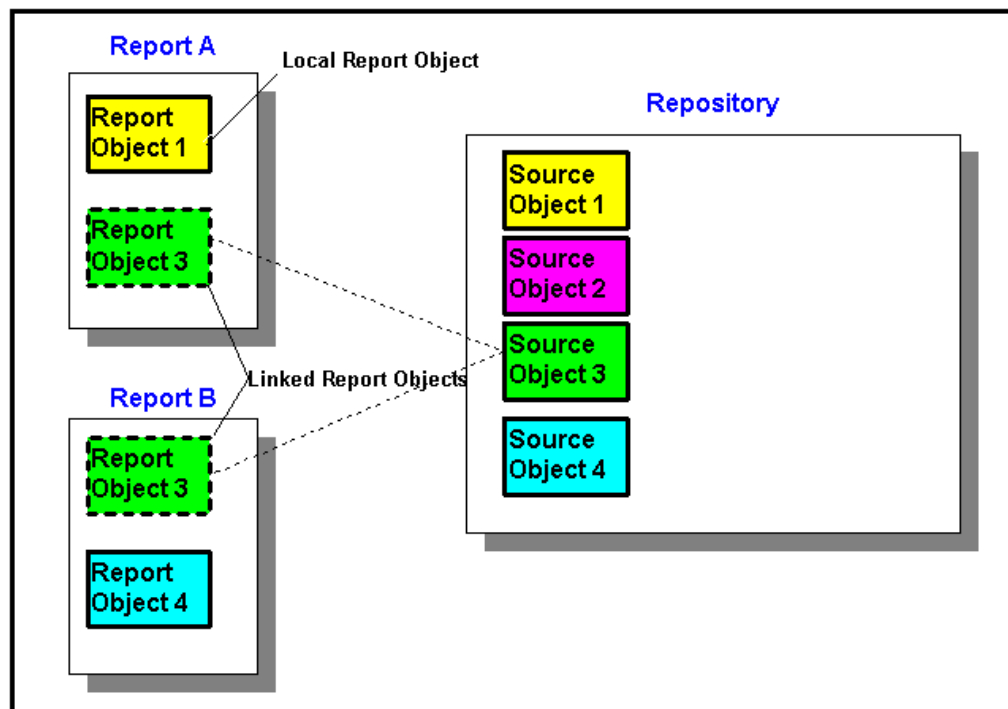
When you insert a saved object from the repository as a linked object, you can clear the link after it is copied into the report; however, you cannot reverse this action.

---

When you save a repository object in a report without linking it to the source object, the local object (the object on the current report) is not linked to the saved object in the repository. Changes to the local object do not affect the object saved to the repository, and changes to the repository object do not affect the local object in the report.

Saving a repository object as a local object allows you to customize your report’s copy of the report object to suit your individual requirements.

[Figure 1](#) shows the behavior of linked and local objects in a report.

**Figure 2-1 Linked and Local Report Objects**

In Report A, Report Object 1 is copied from the repository as a local object. Changes made to the local report object are not reflected in the source object. Report Object 3 is linked to its source object in the repository. Changes made to Report Object 3, when saved, are reflected in the source object and other reports that are linked to that source object, including Report Object 3 in Report B.

## Defining the User Point of View

### Related Topics:

[About the User Point of View](#)

[Setting Up the User Point of View](#)

### About the User Point of View

Every data value in a report is derived from the intersection of a member from each dimension in an Oracle Hyperion Planning database connection. In Oracle Hyperion Financial Reporting Web Studio, you can place these dimensions on the report grid or in the user point of view. When you view the report, you can change the member selected for dimensions on the user point of view. This allows you to customize a report to fit your needs. You can also use the user point of view in books.

In a report, the member specified for a dimension in the user point of view is used for all grids with that dimension. For example, if you select the "budget" member for the "scenario" dimension, all grids in the report with "scenario" in the user point of view use "budget" when you retrieve data. The user point of view is not displayed if all of the dimensions are placed on the grid.

The following dimensions are displayed on the user point of view bar:



- Dimensions not currently defined in a row, column, or page

- Dimensions in a row, column, or page that are flagged for the current point of view
- Dimensions without a member selected on a grid point of view
- Attribute dimensions dragged to the point of view area in the Dimension Layout dialog box

## Setting Up the User Point of View

When you design a report, you limit the members on the user point of view for a database connection. The user point of view applies to all grids that use that database connection.


To set up the user point of view:

1. With a grid selected, select **Task**, and then **Set Up User POV**.
2. In the **Setup User POV** dialog box:
  - For each dimension, define whether the user point of view will include all members in the dimension, or an individual member.  
The default is to include all members for each dimension. To define an individual member for a dimension, click , and then select a member from the **Select Members** dialog box. If you have an individual member selected and wish to return to the setting to include all members, click .
  - Select **Show Dimension Name** to show the dimension name in the user point of view.
  - Select **Show Member Name** to show the member name in the user point of view.
  - Select **Show Alias** to show alias names in the user point of view. If you select **Show Alias**, select an option for how to display the alias.
3. Click **OK** to save the information for the user point of view.

## Creating Headers and Footers

Headers and footers can be used to add a description, add graphics, or insert text functions. The header is located immediately below the top margin, and the footer is located immediately above the bottom margin.

To create a header or footer:

1. With a report displayed in Oracle Hyperion Financial Reporting Web Studio, in **Report**, in the **Header** or **Footer** section, click , and then select whether to enter a Saved Object, an Image, or Text.
2. Enter the **Header Height** or **Footer Height** in inches.
3. Customize the header or footer by entering additional properties.

## Creating a Title Page

To create a title page:




1. Open a report to which you want to add a title page and add a text box in the **Header** section in the Report Designer workspace.
2. Select a report object below the text box, then from that report object's property sheet, select **Page Break Before**.
3. Design the text for the title page using the options in the Text Properties sheet.

## Using Text Functions to Display Information

Text functions can display report information such as the report name or description, information about a database associated with a grid, or information about data in your database connection.

You can use text functions in text boxes, data rows or columns, formula rows or columns, or page headings. Enclose the formula in double angle brackets (<<) and (>>) to distinguish different text functions. The font for the text function can be formatted like regular text. See [Text Functions](#) for information about text functions.

To use text functions to display information in a report:

1. With a report open in the Report Designer, do one of the following
  - Select a text box, and then click .
  - Select a text cell in a grid, and then in **Cell Properties**, click .
  - Select a heading cell in a grid, and then in **Heading Column Properties** or **Heading Row Properties**, select **Custom Heading** and click .
2. In the **Insert Function** dialog box, select a function, and then click **OK**.

---

---

**Note:**

You can enable or disable error messages for text functions that are displayed in the grid or text object. The default is to display error messages. To disable this feature, from **Text Properties**, clear **Show Text Function Errors**.

---

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**Note:**


You must format the entire text function, including the angle brackets, with the same font properties.

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## Searching for Information in the Repository

To search for information in the Oracle Hyperion Financial Reporting repository:



1. Open Oracle Hyperion Financial Reporting Web Studio.
2. In the **Repository** section, enter a text string to search for, and then click .

**Tip:**



To clear the results of the search, click .

## Filtering Repository Items

To filter the items that are displayed in the repository:

1. In the **Repository** pane, click the drop-down button .
2. Select which item or items to display:
  - All
  - Reports
  - Snapshot Reports
  - Grid
  - Chart
  - Text
  - Image
  - Row/Column Template
3. Click .

---

**Note:** If the list of repository items is filtered, the search button turns blue indicating that the repository listing is filtered . Once all filters are removed and a search is performed, the icon turns grey indicating that there are no filters applied to the current repository listing .

---

## Viewing Report Summaries

A report summary shows the name, the description, and the creator of a report. In addition, a report summary shows the modifier, date, and time the report was last modified. Summary information is saved when you save the report.

Report summary information is displayed under repository information

## Viewing Report Server Information

You view report server information to monitor the activity on your server. Report server information is displayed in the Summary Panel below the repository.



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## Working With Grids

### Related Topics:

- [About Grids](#)
- [Adding a New Grid](#)
- [Inserting an Existing Grid](#)
- [Selecting a Grid](#)
- [Defining the Grid Point of View](#)
- [Working With Rows and Columns in Grids](#)
- [Formatting Grids](#)
- [Using the Formula Bar](#)
- [Assigning Multiple Database Connections to a Grid](#)
- [Setting Data Query Optimization Options](#)
- [Showing Supporting Detail for Planning](#)
- [Displaying Line Item Detail for Financial Management](#)
- [Saving a Grid](#)

### About Grids

Grids are tables that can contain data from external database connections. You can add a grid to your report, define its dimension layout, select members, and then format the grid. You can also insert an existing grid to reuse a pre-formatted grid design. You can use text, dimensions, members, and formulas to define the grid content. You can also hide a grid. For example, you might want to display a chart in a report, but not the grid associated with the chart.

---

**Note:**



In Microsoft Excel, reports containing two grids that are side by side do not display the grids side by side; instead, the grids are displayed one above the other.

---

### Adding a New Grid

To add a new grid to a report:

1. Do one of the following:

- Click , and then position the grid in the **Body** section in the Report Designer.
  - Select **Insert**, then **Grid**, and then position the grid in the **Body** section in the Report Designer.
  - In the **Body** section in the Report Designer, click , and then select **Grid**.
2. In **Database Connection Properties**, select an existing database connection, or click **New Connection** to create a new database connection.
3. In **Dimension Layout**, drag dimensions from **Attribute Dimension** (if they exist) and from **Point of View**, into **Page**, **Rows**, and **Columns**, and then click **OK**.

You can place multiple dimensions into Page, Rows, and Columns. The dimensions that are not placed in Pages, Rows, or Columns are displayed in the user point of view bar located at the top of the Report Designer for the grid.


You can layer multiple dimensions in a row, column, or page. For example, you might want to place the Scenario and Time dimensions on the same axis to show actual and budget data over a period of time.

When you add a new grid, the system assigns a default name to the grid. The default name assigned is Grid $n$ , where  $n$  is a system-assigned identification number. For example, if you save a grid that is the sixth system-named grid saved in the report, the default name is Grid6. You can rename the grid in **Grid Properties**.

The system uses the grid name when a function or chart references the grid. For example, if you design a chart to graphically display the data from a grid, the chart properties must reference the grid by its name.

## Inserting an Existing Grid

To insert an existing grid in a report:

1. In the **Body** section in the Report Designer, do one of the following:
  - Select **Insert**, and then **Saved Object**.
  - Right-click and select **Insert Object**, and then **Saved Object**.
  - Click , and then select **Saved Object**.
2. In **Type**, select **Grid**.
3. Select the desired grid object, and the click **Insert**.

## Selecting a Grid

To select a grid in the Report Designer, click the top left cell to select the rows and columns inside the grid.

When you select a grid, you can right-click to access the following options:



- **Dimension Layout**—Change the dimensions for the pages, rows, and columns.
- **Grid Point of View**—Display or hide the Grid Point of View bar.
- **Grid Point of View Setup**—Select members for the Grid Point of View.
- **Data Query Optimization Settings**—Suppress the rows on the database connection server or the report server. (See [Setting Data Query Optimization Options](#).)

## Defining the Grid Point of View

### Related Topics:

[About the Grid Point of View](#)

[Setting Up a Grid Point of View](#)

[Showing or Hiding the Grid Point of View](#)

[Selecting Members for the Grid Point of View](#)

### About the Grid Point of View

The grid point of view (POV) is the user point of view at the grid level. The grid POV enables you to specify the members for a dimension in a grid without placing the dimension on the row, column, or page intersection. This allows you to control or limit the selection of members available to users who view or print the report. Setting the grid POV prevents prompting for the user POV each time the report runs. After you specify a dimension in the grid POV, you can determine how viewers select members.

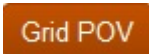
By default, the grid POV is set to use whatever dimensions are in the user POV. If one or more dimensions are needed to have a selection different than the user POV, you can select the dimension(s) for the grid POV, and the report will use the grid POV instead of the user POV.

#### Tip:

To improve report performance, do not use dimensions with only one member selected for the entire grid in a row, column, or page axis. Although it does not increase the potential cell count, it adds overhead to the entire query. Dimensions that are substitution variables or set to one member should be left in the POV. For point of view dimensions where the member can be changed by the end user, use the user POV. For point of view dimensions where the member will remain fixed at a specific selection, use the grid POV.

### Setting Up a Grid Point of View


To set up a grid point of view:


1. In the Report Designer, select the top left cell of the grid to select the entire grid.
2. Do one of the following:
  - Right-click the grid, and then select **Grid Point of View Setup**.
  - In **Grid Properties**, click .

3. In the **Setup Grid POV** dialog box:

- For each dimension, define whether the grid point of view will include all members in the dimension or an individual member.

The default is to include all members for each dimension. To define an

individual member for a dimension, click , and then select a member from the **Select Members** dialog box. If you have an individual member

selected and wish to return to the setting to include all members, click 

- Select **Show Dimension Name** to show the dimension name in the grid point of view.
- Select **Show Member Name** to show the member name in the grid point of view.
- Select **Show Alias** to show alias names in the grid point of view. If you select **Show Alias**, select an option for how to display the alias.

4. Click **OK** to save the information for the grid point of view.

## Showing or Hiding the Grid Point of View

As you design your reports, you can hide or display the grid point of view. Hiding the grid point of view prohibits you from changing the grid point of view when viewing a report. By default, the grid point of view is hidden. However, even when the grid point of view is hidden, its values are still operative when running the report.

To show or hide the grid point of view, do one of the following:

- Select the grid, and then in **Grid Properties**, select or clear **Grid Point of View**.
- Right-click the grid, and then select **Grid Point of View**.

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**Note:**

The grid point of view displays only in HTML view. Since the report is interactive in HTML view, you can change the grid point of view members. Since PDF documents are static documents, you cannot change the grid point of view in PDF documents.

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## Selecting Members for the Grid Point of View

On the grid POV bar, you can select members for dimensions that are not used in rows, columns, or the page axis. The members defined on the POV bar complete the criteria used to retrieve data for the grid. Each POV dimension can contain only one member.

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**Note:**

Using dimensions with security on the grid point of view may cause unexpected results.

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To select a member for the grid point of view

1. Display the grid point of view bar.
  - Select the grid, and then in **Grid Properties**, select **Grid Point of View**.
  - Right-click the grid, and then select **Grid Point of View**.
2. On the grid point of view, click a dimension to display the **Select Members** dialog box.
3. In the **Select Members** dialog box, select a member for each dimension, and then click **OK**.

## Working With Rows and Columns in Grids

### Related Topics:

[Inserting Rows and Columns](#)

[Changing the Row Height and Column Width](#)

[Defining Row and Column Headings](#)

[Overriding a Row or Column Heading](#)

[Cutting, Copying, and Pasting Rows and Columns](#)

[Inserting Page Breaks Before a Row or Column](#)

[Defining Formula Rows and Columns](#)

[Adding Auto Calculations to Data Rows and Columns](#)

[Applying Formatting to Auto Calculated Data Rows and Columns](#)

[Using Row and Column Templates](#)

## Inserting Rows and Columns

You insert rows or columns into a grid to add data to the grid. Types of rows and columns include:

- **Data**—Members of dimensions that are retrieved from a database connection. The member in a data row or column defaults to the top-level member of the dimension.  
A # symbol indicates data rows, columns, or cells.
- **Formula**—Values based on formulas. Commonly used to calculate totals, averages, and variances on data rows or columns.  
An = # symbol indicates formula rows, columns, or cells.
- **Text**—Text typed into the cells or added dynamically through a text function.  
Text rows, columns, or cells in grids do not contain symbols when added to a grid. They are initially blank until populated with text.

When you add a grid to a report, it contains one of each of the following:

- Data row
- Anchor row
- Data column
- Anchor column

An anchor row or column is a blank row or column located at the end of the rows or columns. You can add one or more rows or columns in a grid, or you can use the anchor row and column to append new rows and columns.

To insert a row or a column in a grid:

1. In an existing grid, select a cell, row, or column.
2. Select **Insert**, then **Row** or **Column**, and then **Data**, **Formula**, or **Text**.

To insert multiple rows or columns, select the number of rows or columns on the grid equal to the number of rows or columns that you want to insert.

3. Populate the row or column:
  - For a data row or column, double-click the row or column heading and select dimension members to place in the row or column. See [Assigning Members to Data Rows or Columns](#).
  - For a formula row or column, select the row or column heading and build a formula in the formula bar at the top of the Report Designer.
  - For a text row or column, enter text directly in the row or column, in the formula bar at the top of the Report Designer, or in Text Properties. See [Formatting Text Objects](#).

**Note:** Text in a text cell, that extends beyond the width of the cell, does not extend to fill the adjacent cells when rendering the report output. The text content will wrap in the single cell. When creating long text that does not fit in a single grid cell, use a text box below the grid instead.

## Changing the Row Height and Column Width

You can change row heights and column widths in grids. You can apply these changes to the entire grid or to specific rows or columns.

To change row height and column width:

1. In an existing grid, select row or column.
2. In **Row Properties**, enter a **Row Height**.

Select **Adjust Row Height to Fit** to increase the height of the row to fit all the contents of the cells in that row. (Applicable to PDF Preview)

3. In **Column Properties**, enter a **Column Width**.

Select **Adjust Column Width to Fit** to increase the width of the column to fit all the contents of the cells in that column. (Applicable to PDF Preview)

**Tip:**

You can also drag the handle of a row or column in the grid to the desired size. If you make a row or column too small to see, when the pointer becomes a split line, drag the row or column handle until the row or column is visible.

## Defining Row and Column Headings

To define row and column headings for a grid:

1. In an existing grid, select the cell in the upper left corner of the grid.
2. In **Grid Properties**, under the **Headings** section, define the following information about the heading:
  - In **Member Labels**, select what to display in the heading (**Member Name**, **Alias**, or **Both**).
  - In **Row Headings Before**, select a column.  
The row heading is positioned to the left of the selected column. Columns are represented alphabetically as Column A, Column B, Column C, and so on. You cannot place row headings before columns that are sorted.
  - Select **Suppress Repeats** to hide headings for repeating members in a segment.  
When you suppress repeats, only the first instance of the heading for a repeated member is displayed. Headings for additional repeating members are hidden.
  - In **Alias Table**, select the alias table to use when showing aliases.  
You can select alias tables in your database connection. Although you cannot specify aliases at the grid level, if you display aliases for a row or column, the system displays the alias table as selected at the grid level. The alias table is initially set to the default alias table for the database connection type.

**Note:**


The heading properties you define apply to all rows and columns unless you specify otherwise.

If you are using the Entity dimension through a Oracle Hyperion Financial Management database connection, you can select the check box for Short Name for Entities for the row, column, or grid using the relevant properties sheet. This option enables you to display the short name of the entity in your report, removing the parent portion of the entity that typically displays.

The standard display for an entity using Financial Management is "parent.child." If you select Short Name for Entities on the relevant properties sheet, the entity displays as "child," removing the "parent" from the display. For example, an entity that typically displays as "UnitedStates.Connecticut" displays as "Connecticut" when the Short Name for Entities check box is selected.

## Overriding a Row or Column Heading

To override a specific row or column heading in the grid:

1. Select a row or column heading in the grid.
2. In **Heading Row Properties** or **Heading Column Properties**, select **Custom Heading**, and then either:
  - Enter the text to use for the heading.
  - Enter a text function, or click  and select the text function you want to use for displaying data on the headings.
3. **Optional:** Select **Allow Expansion** to enable expansion of the summary rows and columns under the heading.

## Cutting, Copying, and Pasting Rows and Columns

When cutting or copying rows and columns, keep in mind the following points:

- You can copy rows and columns and paste them in the same grid or between two different grids in a report.
- If you cut a row or column, you can only paste it in the same grid.
- For formula rows and columns, you must copy or cut the entire row or column.

To cut, copy, and paste rows or columns in grids, select the desired rows or columns, and then right-click and select **Cut**, **Copy**, or **Paste**.

## Inserting Page Breaks Before a Row or Column

Inserting a page break before a row or column in a grid enables you to break the report data at a specified location while keeping required line items together. Page breaks are indicated with a heavy, dashed line.

To insert a page break before a row or column in a grid:

1. With a grid displayed in the Report Designer, select a row or column.

You cannot insert a page break before the first column in a report or above the first row in a report.
2. In **Row Properties** or **Column Properties**, select **Page Break Before**, and then select where to position the page break:
  - For rows, select **Position at Top** to place the remaining part of the grid at the top of the new page. For columns, select **Position at Left** to place the remaining part of the grid in the left margin of the new page.
  - Select **Same Position** to place the grid in the same position as it is currently placed. For example, if a grid is placed half way down the page and you insert a page break with **Same Position** selected, the remaining part of the grid will be displayed half way down the second page.

## Defining Formula Rows and Columns

A formula consists of a combination of grid references, mathematical functions, and arithmetic operators. A grid reference uses values from the current grid or another grid in a calculation. You can define arithmetic formulas on formula rows, columns, cells, or a range of formula cells in a grid. For example, you can build a formula that

adds one or more rows. Or, you can multiply two rows, add a third row, then display the result. For an explanation of the mathematical functions you can use in formulas, see [Mathematical Functions](#).

When defining formula rows or columns, keep in mind the following points:

- Formula results are calculated based on the underlying data values in one or more specified cells. If the cells used in a formula are formatted to use scaling, the formula results may differ from the displayed values for the cells, since the underlying, unformatted data values are used in the formula.
- By default, cells that contain missing data (`#MISSING`) are not treated as zero (0) in formulas, unless specified differently using the "IfNonNumber" property. In a formula that uses division, an error is returned.
- Use dot notation to specify mathematical properties. Dot notation is a syntax that specifies properties for a grid or another property. Specify the property using a period ( `.` ) followed by the property name.
- When using the Oracle Hyperion Financial Management database connection, the results vary, based on the settings of the `MissingValuesAreZeroInFormulas` (formerly `MissingValuesAreZeroInFormulasInHFM`) option in the `JConsole.exe` file. For information on `JConsole`, see the *Oracle Hyperion Financial Reporting Administrator's Guide*. If the property is set to one (1), the `#Missing` value is treated as a zero. However, if the property is set to zero (0), the `#Missing` value is treated as missing which results in `#missing` or `#error` values. The default setting is one (1).

## Formula Row and Column Syntax

### Syntax:

`gridname.row\column[x].property`

Argument	Description
<i>gridname</i>	Name of the grid. Grid names cannot include spaces. When specifying the full <i>gridname</i> notation, you must also indicate the row, column, or cell.
<i>x</i>	Row or column, number, and property.

### Example 1

Add all elements in row 3 of `mygrid1`.

```
mygrid1.row[3].sum
```

### Example 2

Return the sum of the *n*th column:

```
mygrid2.column[C].sum
```

### Example 3

Returns the absolute value of the cell located at the intersection of row 5 and column B in the current grid:

`ABS([5,B])`

## Inserting a Formula Row or Column

To insert a formula row or column:

1. In an existing grid, select **Insert**, then **Row** or **Column**, and then **Formula**.

The formula row or columns is inserted with a = # symbol.

2. In the formula bar at the top of the Report Designer, select a function from the drop-down list, and then enter the formula in the formula text box to the right of the drop-down.

See [Using the Formula Bar](#).

## Showing the Formula In a Row or Column Heading

To show the formula in the heading for formula row or column:

1. In a grid, select the heading cell.
2. From **Heading Row Properties** or **Heading Column Properties**, select **Show Formula**.

## Calculating at the Cell Level

You can create a custom cell-level formula on cells in a formula row or column. When you select a formula cell, you can select the following calculation preferences in **Cell Properties**:

- If the cell is an intersection of a formula row and formula column, you can choose whether the calculation is based on the row formula, the column formula, or a new custom formula.
- If a cell is located in a formula row, you can choose whether the calculation is based on a row formula or a new custom formula.
- If a cell is located in a formula column, you can choose whether the calculation is based on a column formula or a new custom formula.

[Table 1](#) shows an example of a cell that is calculated to display the % variance. Cell D4 displays the % variance between the sum of "Jan" and the sum of "Feb"; specifically,  $((356-350)/350) * 100 = 1.71\%$ . A cell level formula gives the intended result by placing a custom formula in the cell D4. The formula needed to get the correct result is  $(([B]-[A])/[A]) * 100$ .

**Table 3-1 Reason for Using Cell Level Calculation**

		A	B	C	D
		Jan	Feb	Var	%Var
1	Cola	100	105	5	5.00%
2	Root Beer	200	203	3	3.00%
3	Grape	50	48	(2)	(4.00%)



**Table 3-1 (Cont.) Reason for Using Cell Level Calculation**

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
		<b>Jan</b>	<b>Feb</b>	<b>Var</b>	<b>%Var</b>
4	[1].sum	350	356	6	1.71%

To calculate at the cell level:

1. Open a report and select a grid.
2. Select a formula cell or cells.
3. In **Cell Properties**, under **Calculation order**, select one of the following options:
  - **Use the row formula**—Applies the row calculation to the cells.
  - **Use the column formula**—Applies the column calculation to the cells.
  - **Use a custom formula**—Adds a new formula. (Enter the custom formula in the formula bar at the top of the Report Designer.)

**Tip:**

You can select multiple contiguous formula cells in a formula row or column to change the calculation order.

## Expanding Rows and Columns

You can use the design-time row, column, and cell to reference the calculated rows, columns, or cells.

### Row or Column Syntax:

*AXIS[Segment(Range)].Property*

### Cell Syntax:

*CELL[Row Segment(Range), Column Segment(Range)].Property*

### Parameters:

<b>Parameter</b>	<b>Description</b>
<i>AXIS</i>	Row or column containing the expanded cells identified by the row and column templates. For example, [3] refers to row 3 and [C] refers to column C. For example, [3].sum in a column formula is calculated as the sum of row 3. The default is row.
<i>CELL</i>	Intersection of the expanded cells, given the row and column template coordinates, respectively. For example, [2,C] is the single cell where row 2 intersects column C.

Parameter	Description
<i>Segment</i>	<p>Value that represents a row or column ID in the Report Designer. Referenced segments refer to design-time rows or columns, which can expand in the viewer. View-time rows and columns are the expanded rows and columns. Use numbers for row IDs and letters for column IDs.</p> <hr/> <p><b>Note:</b></p> <p>If you are using an expanded formula row, the default segment is row. If you are using an expanded formula column, the default segment is column. For example, row [ 5 ] refers to expanded row 5. For more information on segments, see <a href="#">Expressing the Segment Argument</a>.</p> <hr/>
<i>Range</i>	<p>Expanded cells used in the calculation of the function. Range refers to view-time expanded rows and columns. Calculations are performed after suppression. Sorting is performed after calculations. For more information on sorting and suppression, see <a href="#">Using Conditional Suppression and Sorting Rows, Columns, or Pages in Grids</a>.</p> <p>Use colons to refer to a range of expanded rows or columns. For example, ( 3 : 6 ) addresses rows 3, 4, 5, and 6. For more information on ranges, see <a href="#">Expressing the Range Argument</a>.</p>
<i>Property</i>	<p>Function applied to aggregate rows, columns, or cells. For more information on using properties, See <a href="#">Aggregate Property Arguments</a>.</p>

### Expressing the Segment Argument

The Segment argument is a value that represents a row or column ID in the designer. Referenced segments refer to design-time rows or columns, which might expand in the viewer. View-time rows and columns are the expanded rows and columns. You can use numbers for row IDs and letters for column IDs. You can refer to one or more segments in any standard formula..

**Table 3-2 Notation Used for Multiple Segments in Standard Formulas**

Type	Notation	Description	Example
Single segment	[ ]	Single (design-time) segment	Point to segment 2: row[ 2 ]
<hr/> <p><b>Note:</b></p> <p>Previous releases support this notation.</p> <hr/>			

**Table 3-2 (Cont.) Notation Used for Multiple Segments in Standard Formulas**

Type	Notation	Description	Example
Nonconsecutive segment	[:]	Multiple single rows or column segments	Point to segment rows 2, 5, 7, 8 and 10: <code>row[2;5;7;8;10]</code>
			<b>Note:</b> Use a semicolon rather than a comma to delineate row or column references.
Segment Range	[:]	Range of rows or column segments	Point to segment rows 2, 3, 4 and 5: <code>row[2:5]</code>

The following examples show different combinations of the segment notation in [Table 1](#).

**Example 1:**

Point to segment rows 1, 3, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15 and 17:

```
row[1; 3; 5:10; 12:15; 17]
```

**Example 2:**

If the following expression references row segment 20, but the grid contains only 15 row segments, the formula works only on segment 4:

```
row[4; 20]
```

If you enter a larger starting segment than ending segment, the system internally switches them around.

**Example 3:**

Show how the segments are internally switched:

```
row[6:3] becomes row[3:6]
```

Multiple references to the same segments are valid. This causes the same segments to be included twice in an expression.

**Example 4:**

Sum row 5 twice:

```
row[2;3;5;7;5].sum
```

**Example 5:**

Reference row segments 2, 3, 4, 5, 6, 7, and segment 5 again. Include segment 5 twice in the calculation of the average:

```
row[2:7:5].avg
```

Text segments are ignored.

### Example 6:

Ignore row segment 3 if it is a text row:

```
row[1:5]
```

### Expressing the Range Argument

The Range argument refers to view-time expanded rows and columns, on which calculations are performed after suppression. Sorting is performed after calculation is completed.

**Table 3-3 Range Notation**

Type	Notation	Description	Example
None		The Range argument is optional.	Point to all expanded rows in row segment 2. <code>row[2]</code>
Single Range	<code>[segment (range)]</code>	Single expanded row or column	Point to expanded row 5 in segment 2: <code>row[2(5)]</code>
Consecutive Range Reference	<code>[:]</code>	Range of expanded rows or columns	Point to expanded rows 5,6,7,8,9,10 in row segment 2: <code>row[2(5:10)]</code>
Nonconsecutive Range references	<code>[,]</code>	Multiple single expanded rows or columns	Point to expanded rows 5, 7, 8 and 10 in row segment 2: <code>row[2(5,7,8,10)]</code>

If a range is used, you can use any combination of the range notations in [Table 1](#).

### Example 1:

Point to expanded rows 5 through 10 in design-time row 2:

```
row[2(5:10)]
```

If row segment 2 expands to 15 rows, the function operates on only expanded rows 5 through 10.

### Example 2:

Identify columns C through E in design-time column A:

```
column[A(C:E)]
```

### Example 3:

Point to expanded rows 1, 3, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15 and 17 in design-time row 2:

```
row[2(1,3, 5:10, 12:15, 17)]
```

When the grid contains suppression properties, expanded rows and columns may be suppressed. If the Range argument refers to a number of expanded rows that is greater than the maximum number of rows expanded in the segment, the extra rows are ignored.

#### Example 4:

In the following example, expanded rows 6 through 10 are identified, but segment 1 contains only 3 expanded rows. In this situation, the function works only on expanded rows 6 through 8:

```
row[1(6:10)]
```

If none of the expanded rows in the Range exist, the entire axis reference is ignored.

#### Example 5:

Ignore the reference to 23 if segment 3 only contains 10 expanded rows:

```
row[3(23)]
```

#### Example 6:

If you enter a larger starting range than ending range, the system internally switches them around. The following shows how the range is reversed:

```
row[1(7:5)] becomes row[1(5:7)]
```

Multiple references to the same expanded rows or columns are valid. However, this may cause the same rows or columns to be included twice in an expression.

#### Example 7:

Sum expanded row 5 twice:

```
row[2(3,5,7,5)].sum
```

#### Example 8:

Specify expanded rows 3, 4, 5, 6, 7, and row 5. Include row 5 twice in the calculation of the average:

```
row[2(3:7,5)].ave
```

### Identifying Multiple Segments with Ranges

The syntax for a range in a segment range is:

```
AXIS[Segment Start : Segment End (Range Start : Range End)]
```

where *Segment Start* and *Segment End* refer to multiple segments.

#### Example 1:

Point to expanded rows 5, 6, and 7 in row segments 1, 2, 3, and 4:

```
row[1:4(5:7)]
```

**Example 2:**

Point to expanded rows 5, 7, and 9 in row segments 1, 2, 3, and 4:

```
row[1:4(5,7,9)]
```

If the segment argument refers to segments that do not exist in the axis, the segments are ignored. This includes suppressed rows or columns.

**Example 3:**

Point to expanded rows 4, 6, 7, 8, 9, and 10 in row segment 1 and 4, 5, and 6 in row segment 3 and all expanded rows in row segment 7:

```
row[1(4, 6:10); 3(4:6); 7]
```

## Adding Auto Calculations to Data Rows and Columns

You can append auto calculations to the data rows and columns in a grid. For example, you could calculate the total rows or columns that expand and contain multiple dimensions.

When you define an auto calculation for a data row or column, a row or column that contains the calculated value is inserted at runtime. The calculation applies to all members in a row or column and is displayed when you print or preview the report.

You can apply several formatting options. For each auto calculation, you can specify a heading for the calculated row or column and a group heading. You can specify the location of the calculation row or column in relation to the member, and you can insert blank rows before and after calculation rows and group headings. You can also specify page breaks within rows of calculation and after a calculation row.

You can apply several of the formatting options provided with auto calculation but exclude the auto calculation function for a specified cell, row, or column.

You can define different types of calculation for each dimension or member in the row or column using one of the following functions:

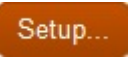
- **Average**—Average value of values in the segment in the dimension at runtime (ignores non-number values)
- **Average All**—Average value of values in the segment in the dimension at runtime (assigns 0 to non-number values)
- **Count**—Number of values in the segment in the dimension at runtime (ignores non-number values)
- **Count All**—Number of values in the segment in the dimension at runtime (assigns 0 to non-number values)
- **Maximum**—Largest value of the values in the segment in the dimension at runtime
- **Minimum**—Smallest value of the values in the segment in the dimension at runtime
- **Product**—Multiplies all numbers or references in the segment in the dimension and returns the product at runtime
- **Total**—Sum of the values in the segment in the dimension at runtime

- **No Calculation**—A calculation is not performed on the selected cell, row, or column; however, the formatting provided with auto calculation is retained. You can apply No Calculation to an auto calculation row, column, or cell or non-calculation row, column, or cell.

Note the following:

- If errors or missing data exist for members, the previous operations include the member value in the subtotal, but the member value is treated as a zero value.
- You can use the formatting options without having the calculation done. This enables you to retain the member grouping without calculations such as totals.

To add auto calculations to data rows or columns:

1. In a grid, select the heading cell of a row or column that contains multiple members.
2. In **Heading Row Properties** or **Heading Column Properties**, select **Auto Calculation**, and then click .
3. In **Calculation**, select a function, or select **No Calculation** to include only auto calculation formatting.
4. **Optional:** Under **Headings**, do the following to add headings to the calculation or group rows or columns:
  - Select **Group Heading**, and then enter a custom heading to describe the row or column.
  - In **Auto Calculation Heading**, enter a custom heading for the calculation row or column.

To insert formulas in the heading, click . See [Using Text Functions to Display Information](#).

Keep in mind the following:

- When using the MemberName function, you must enter "current" for the row / column / page parameters.
  - The header is suppressed if the surrounding data is suppressed.
  - To suppress repeats on multiline headers, select **Grid Properties**, then **General**, and then **Suppress Repeats**.
5. **Optional:** Under **Insert Blank Row / Column**, select an option to insert blank rows or columns before or after calculation rows or columns and group headings.
  6. Select a **Row Height** or **Column Width**.
  7. Select **Allow Page Breaks Within** to allow a page break within the rows of the auto calculation.

When deselected, the heading cell and the row are kept together. If the row is too long to fit on a page, the heading cell and the row is moved to the next page. If the auto calculation row is longer than one page, the option defaults to Allow Page Break Within.

8. Select **Allow Page Breaks After Auto Calculation** to allow a page break after the calculation row.
9. Click **OK**.
10. Select the grid. In **Grid Properties**, expand **Position**, and then in **Position of Auto Calculations**, select **Before Members** or **After Members** to define whether to insert the auto calculation row or column before or after the expanded members of the row or column.

Figure 1 show a sample report that contains an auto calculation.

**Figure 3-1 Example Report with Auto Calculation**

Sales	
Qtr1 Sales	
East	20,621
West	31,674
SubTotal	52,295
Qtr2 Sales	
East	22,449
West	33,572
SubTotal	56,021
GrandTotal	108,316

## Applying Formatting to Auto Calculated Data Rows and Columns

You can use the conditional formatting feature to apply additional formatting such as underline, bold, and indent to the auto calculation rows and columns. Conditional formatting contains two conditions specifically designed for auto calculations:

- **Auto Calculation**—Applies formatting to the auto calculated cells and auto calculation heading.
- **Auto Calculation Group Heading**—Applies formatting to the section headings.

For more information on conditional formatting, see [Applying Conditional Formatting](#).

To apply formatting to calculated data rows and columns:

1. In a grid, select a cell or group of cells that is set up with an auto calculation.



2. Select **Format**, and then **Conditional Format**.
3. From the **Property** drop-down list located below **Condition 1: If**, select **Auto Calculation** or **Auto Calculation Group Heading**, and then enter the conditions.
4. Click **Format Cells** to apply formatting to the calculated cell, and then click **OK**

Figure 1 is an example report that uses conditional formatting to specify font, alignment, and border and shading settings. The following conditions were applied to the example report by selecting the East, West Heading Cell and Calculated Data Cell:

- Format 1: IF (Auto Calculation Year is True, then Format Cells (double border top, Font = Arial, Bold, Font size = 12)
- Format 2: IF (Auto Calculation Market is True, then Format Cells (single border top)
- Format 3: IF (Auto Calculation Group Heading Market is True, then Format Cells (Alignment = center, Font Style = italic)
- Format 4: IF (Auto Calculation Group Heading Year is True, then Format Cells (Bold, Font size = 12, Color = blue)

**Figure 3-2 Print Preview of Example Report with Applied Conditional Formatting**

<b>Sales</b>	
<i>Qtr1 Sales</i>	
East	20,621
West	31,674
SubTotal	52,295
<i>Qtr2 Sales</i>	
East	22,449
West	33,572
SubTotal	56,021
<b>Grand Total</b>	<b>108,316</b>

## Using Row and Column Templates

### Related Topics:

[About Row and Column Templates](#)

[Inheritance In Row and Column Templates](#)

[Property Values In Row and Column Templates](#)

[Creating a Row and Column Template](#)

[Inserting a Row and Column Template](#)

[Unlinking a Row and Column Template](#)

[Modifying a Row and Column Template](#)

### About Row and Column Templates

Using row and column templates, you can select a contiguous set of rows or columns and save them as an object in the repository to reuse in reports. Row and column templates include one or more row or column definitions. These row or column definitions may contain:

- Database connection/dimension/member selections
- Formula rows and columns
- Expansions
- Headings, including customized formatting
- Text rows and columns, where only the text in the heading cells is saved
- Cell formatting
- Basic suppression (#Missing, #Zero, #Error)

When you create a row and column template, the following items are discarded:

- Cell formulas
- Secondary database connection specifications
- Text from the data cell area (text in the heading cells is retained)
- Conditional formatting
- Related content
- Conditional suppression

After you create a row and column template, you can save it to the repository with the following limitations:

- Formulas must refer to rows and columns within the selected rows or columns in the template.
- Formulas outside the row and column template cannot refer to selected rows and columns that are part of a row and column template.

---

**Note:**

When a report contains two or more templates and one of the templates cannot be retrieved because it is moved, renamed, deleted from the repository, or the data source for the template has changed, the link to the existing template remains unbroken. No alerts for broken links are given; however, you can check for orphan links in the `FRLogging.log` file.

---

## Inheritance In Row and Column Templates

When inheritance is used with linked row and column templates, certain formatting options are dynamic and vary from report to report. When a linked row or column template is used in a grid, the format inheritance is automatically reset to the first available *non-template* row *above the* row template or to the *left* of the column template

To keep the format of a row/column template consistent, or if you are experiencing formatting inconsistencies with inheritance and row or column templates, you can do one of the following""

- Insert a hidden text row or column containing the formatting to show in the row or column template and set the Inherit from on the Property sheet to reference the hidden row or column.
- Do not use inheritance, but rather set the row or column template with formats through the Format dialog box.

---

### Note:

Cell format inheritance must be set before creating the row and column template. When inheriting formatting in a row and column template, you must use the **Inherit Formatting from** option on the Row and Column Template property sheet, which indicates the options that are available for inheritance. For example, suppression, formatting, and row height or column width.

---

## Property Values In Row and Column Templates

### Related Topics:

[Saved Or Inherited Property Values](#)

[Discarded Property Values](#)

### Saved Or Inherited Property Values

**Table 3-4** *Saved or Inherited Property Values (User option)*

Property Value	Description
Row and Column Template database connection	Saved by row or column
Heading—Suppress Repeats	Saved by row or column
Display Line Item Details	Saved by row or column
Headings	Saved by row or column
Allow Expansions	Saved by row or column
Calculations	Saved by row or column
Hide Always	Saved by row or column
Positive Number Formatting	Saved by row or column

**Table 3-4 (Cont.) Saved or Inherited Property Values (User option)**

Property Value	Description
Negative Number Formatting	Saved by row or column
Decimal Places	Saved by row or column
Scale Value	Saved by row or column
Top Border	Saved by row or column
Right Border	Saved by row or column
Bottom Border	Saved by row or column
Left Border	Saved by row or column
Shading	Saved by row or column
Horizontal Alignment	Saved by row or column
Vertical Alignment	Saved by row or column
Indent	Saved by row or column
Font	Saved by row or column
Font Style	Saved by row or column
Font Size	Saved by row or column
Font Effects	Saved by row or column
Replace Value	Saved by row or column
Row Height/Column Width	Saved by row or column or inherited from another row or column and applied to all rows or columns in the row and column template
Suppression	Saved by row or column or inherited from another row or column and applied to all rows or columns in the row and column template
Page Break Before	Saved by row or column discarded

**Discarded Property Values****Table 3-5 Discarded Property Values**

Property Value	Description
Text from text cells	Discarded—text in the heading cells is retained
Cell Formulas	Discarded
Investigation	Discarded
Conditional Formatting	Discarded
Text in non-heading cells	Discarded
Calculation Order	Discarded; irrelevant outside of a grid

**Table 3-5 (Cont.) Discarded Property Values**

Property Value	Description
Secondary database connection	Error
External References in Formulas (text or numeric)	Error

### Creating a Row and Column Template

You create row and column templates based on rows and columns in a grid. When considering rows and columns for inclusion in a template, select those rows and columns that contain the member selections, formulas, and formatting suitable for future use. You can then import the row and column template to use in other grids.

When you create a row and column template, keep in mind the following points:

- When templates are updated, grids containing a link to the template are updated.
- Row and column templates must contain at least one data row or column. For example, your template cannot consist solely of text and formula rows or columns

To create a row and column template and save it as an object in the repository:

1. In a grid, select the rows or columns to include in the template.
2. Right-click the selected rows or columns, and then select **Save as Row and Column Template**.
3. In the **Save Row and Column Template** dialog box, enter the requested information.

To save the row and column template as a linked object in the current grid, select **Link to Source Object**. Link to Source Object is disabled if all rows and columns in a grid are selected for inclusion in a row and column template. In order to link to a source object, the grid must have at least one data row that is not part of a row and column template.

4. Click **Save**.

The system validates the row and column template and checks for properties that are not supported. Depending on the content of your row and column template, you may encounter one or more of the following situations:

- If your row and column template contains formulas with external references (for example, to cells outside of the selected row and column template), you are prompted to modify those formulas before saving the row or column template. You can save a row and column template that contains cell formulas, as these can be discarded.
- If a secondary database connection was specified within the row and column template, you are prompted to continue saving the template. If you save the template, the secondary database connection you specified in the row and column template is discarded. The primary database connection is then used for the row and column template.

- If unsupported properties are found, an Information dialog box presents a list of properties you can select to discard before saving the template. For example, if the row and column template contains a cell formula, you can choose to save the template without the formula or not save the template.

### Inserting a Row and Column Template

After saving the row and column template to the repository as an object, you can insert it into an unlimited number of compatible grids. When a row or column template is inserted into a report, formulas outside of the template are adjusted accordingly. Only formulas within a grid are updated; not external formulas, which refer to the grid with the template, from text objects or another grid.

In a grid on a report, a row and column template is marked with yellow heading cells. Dynamic linking is displayed on the **Row and Column Template Properties** property sheet.

To insert a row and column template:

1. In a grid, select a row or column adjacent to where you want to insert the row and column template.

Row templates are inserted below the selected row. Column templates are inserted to the left of the selected cell.

2. Right-click the selected rows or columns, and then select **Insert Row and Column Template**.
3. In the **Insert Row and Column Template** dialog box, select the row and column template to insert.
4. Select whether to link or unlink a row and column template to or from the repository as an object.

- To create a link between the report and the template in the repository, select **Link to Source Object**. You can link the row and column template to the current grid so that the grid maintains a dynamic connection to the row and column template preserved in the repository.

A template that is linked within a grid can only be modified through format inheritance. See [Inheriting Cell Formatting](#).

- To use the template in the report without maintaining a dynamic link to the source object in the Explore repository, clear **Link to Source Object**. See [Unlinking a Row and Column Template](#).

5. Click **Insert**.

### Unlinking a Row and Column Template

After inserting a row and column template in a grid, you can unlink it. This enables you to use the row and column template as a structural template rather than a dynamically connected replica of the row and column template in the repository.

When you unlink a row and column template, the rows and columns in the template are converted into standard, unlinked rows and columns.

To unlink a row and column template:

1. In a grid, select the row and column template to unlink.
2. On the **Row and Column Template Properties** property sheet, clear the **Link to Source Object** check box.
3. When an Information dialog box asks whether to unlink this object, click **Yes**.

### Modifying a Row and Column Template

You can modify a row and column template using one of the following methods:

- Create a new row and column template and save it using the same name as a row and column template located in the repository, overwriting the existing template when prompted.  
See [Creating a Row and Column Template](#).
- Unlink a row and column template from a grid, then modify and save it to the repository using the same name and folder of the row and column template in the repository, overwriting the existing template when prompted.

See [Unlinking a Row and Column Template](#).

Either method replaces the original row and column template in the repository.

## Formatting Grids

### Related Topics:

[Formatting Numbers in Grids](#)

[Using Special Currency Formats](#)

[Aligning the Text in a Grid](#)

[Replacing Text in a Grid Cell](#)

[Hiding Rows, Columns, or Grids](#)

[Sorting Rows, Columns, or Pages in Grids](#)

[Modifying the Font](#)

[Creating Custom Colors](#)

[Adding Borders and Shading to Cells in Grids](#)

[Freezing Grid Headers](#)

[Hiding Grid Lines](#)

[Inheriting Cell Formatting](#)

[Copying Cell Formatting](#)

[Merging Several Cells Into One Cell](#)

### Formatting Numbers in Grids

When you format how numbers are displayed in a grid, you can define the formatting options for an entire grid or for individual cells, rows, or columns:

To format numbers in a grid:

1. In the Report Designer, select one or more cells, or select the entire grid.
2. Select **Format**, and then **Cell**.
3. In the **Format Cells** dialog box, in the **Number** tab, define the following options:
  - **Positive Number Symbols**—Select a prefix or suffix for positive numbers.  
**Note:** If you need more than one symbol in the prefix or suffix, you can select the first symbol from the drop-down, but you must manually enter any additional symbols.
  - **Negative Number Symbols**—Select a prefix or suffix for negative numbers. To display negative values in red, select **Display in Red**.  
 You can use a prefix to reverse the sign of an account member without inserting another row or column. When using conditional formatting, you specify an account row and set the condition. Then, in the Negative Number Symbols prefix field, select the negative (-) symbol. The negative (-) symbol is displayed in front of the numbers for that row.  
**Note:** If you need more than one symbol in the prefix or suffix, you can select the first symbol from the drop-down, but you must manually enter any additional symbols.
  - **Decimal Places**—Select a number from 0 to 9 to specify the number of decimal places to apply to a number.
  - **Separator Characters**—How to define separator characters:
    - **Defined by Preferences**—Use the symbols specified in the user **Preferences** dialog box in the Oracle Hyperion Financial Reporting repository. (In the repository, select **File**, then **Preferences**, and then **Financial Reporting**, and the **Financial Reporting Studio**).
    - **Defined in Report**—Define a thousands separator and a decimal separator for the current report.
  - **Scale Value By**—Number to multiply values by for scaling purposes.  
 You can enter a number, or you can select a value from the drop-down list. The default scaling option is 1, which does not scale values. If you enter .001, the value 2,000 is displayed as 2.
4. Click **Apply**, and then click **OK**.

## Using Special Currency Formats

Some currencies use specialized formats for their currency symbols. To add a special currency symbol to reports, the font used for that symbol must be installed on your local machine and the server to which you connect.

To add a special currency symbol to a report:

1. Open report and select a grid.
2. Select **Format**, and then **Cell**.



3. In the **Format Cell** dialog box, in the **Font** tab, select the font for the currency symbol.

- "AbakuTLSymSans" for the Turkish lira symbol
- "Rupee Floradian" for the Indian rupee symbol

These fonts must have previously been installed in the system where your browser is running and on your server in order to select them.

4. Click **Apply**.
5. In the **Number** tab, in the **Prefix** or **Suffix** fields, select **Rupee (India)** or **Lira (Turkey)** to add the symbol as a prefix or suffix for numeric values.
6. Click **Apply**, and then click **OK**.

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**Note:**

If fonts other than "Rupee Floradian" or "AbakuTLSymSans" are used, the country currencies are displayed with the letters "RS" and "TL" respectively.

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## Aligning the Text in a Grid

To align the text in a grid:

1. Open a report and select a cell or cells in a grid.
2. Select **Format**, and then **Cells**.
3. In the **Format Cells** dialog box, in the **Alignment** tab, define the following options:
  - **Horizontal**—Horizontal alignment in the report.
  - **Vertical**—Vertical alignment in the report.
  - **Indent**—Number of spaces to indent the heading and the associated text, data, and formula cells from the left margin.
  - **Indent Increases for Each Generation By**—Amount by which the indent increases for each generation of a member.

This option is enabled only for member rows and member selections that use member selection functions (for example "Children(East)" or "Descendents (Market)"). If you have an individual selection (for example "East" or "West"), you cannot define a value.

The indentation is done on the member's "generation", which is a number that denotes its hierarchy position from left to right. A dimension parent is Generation 1, and its children are Generation 2.

To indent the row headings for each generation of a selected member:

- a. Confirm that you selected a row with the desired heading cell.
- b. Select the number of spaces to indent the text.


This number is added to the number defined in **Indent**. To specify a reverse indentation (from right to left), enter a negative number.

Select a member relationship that returns members on multiple levels; for example: Children of...(Inclusive), Descendants of..., Descendants of...(Inclusive), Parents of...(Inclusive), Ancestors of, Ancestors of...(Inclusive), and AllMembers.

4. Click **Apply**, and then **OK**.

## Replacing Text in a Grid Cell

To replace the text in a grid cell with the text in another grid cell:

1. Open a report and select a cell in a grid.
2. Select **Format**, and then **Cell**.
3. In the **Format Cells** dialog box, in the **Inherit Formatting** tab, click  next to **Replace**, and select **Replace Text**
4. Click **Apply**, and then **OK**.

## Hiding Rows, Columns, or Grids

You can hide rows, columns, or an entire grid so that the values are not displayed when you print or view a report. For example, you might want to hide a grid if you include a chart based on the grid data and want to display only the chart on the report.

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### Note:

The data and calculations in rows or columns are evaluated, regardless of the formatting that is applied to them.

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To hide a grid:

1. In the Report Designer, select a grid.
2. In **Grid Properties**, expand **Suppression**, and then select **Hide Grid**.

To hide a row or column in a grid:

1. In the Report Designer, select a row or a column in a grid.
2. In **Row Properties** or **Column Properties**, select **Hide Always**.
3. Specify whether ignore the values or calculations in the hidden row or column when you print or view a report.
  - To ignore values and calculations, select **Suppression Ignores Row** or **Suppression Ignores Column**.
  - To include values and calculations, clear **Suppression Ignores Row** or **Suppression Ignores Column**.

**Note:**

Hidden cells are ignored when suppression is evaluated unless they are specifically referenced using conditional suppression. For more information, see [About Conditional Suppression](#).

## Sorting Rows, Columns, or Pages in Grids

You can sort a range of consecutive rows or columns in a grid based on the values in a specific column or row. You can also sort columns, rows, and pages based on their headings. If you select a range of columns, Oracle Hyperion Financial Reporting Web Studio sorts the columns based on the values in a specified row. If you select a range of rows, Financial Reporting Web Studio sorts the rows based on the values in a specified column. If the column or row by which you sort contains multiple members, the sort is based only on the values of the first member.

You can sort columns or rows in ascending or descending order. When you sort in ascending order, the lowest number, the beginning of the alphabet, or the earliest date appears first in the sorted list. When you sort in descending order, the highest number, the end of the alphabet, or the latest date appears first in the sorted list.

You can sort only multiple ranges of columns or rows. Suppressed rows or columns are not sorted.

To sort a range of rows and columns:

1. Open a report and select a grid.
2. In **Grid Properties**, select **Sort**, and then click **Setup**.
3. In the **Sort** dialog box, under **Apply Sorting to the**, select **Rows**, **Columns**, or **Pages**.

For the **Pages** option, you can only select headings from the **Sort by**: drop-down menu. All other options are disabled.

4. For Rows or Columns, use **From** and **To** to select the range of columns or rows to sort.

When auto calculations is enabled, the outermost layers contains the grand total of all rows in the calculation. Sorting on the outermost layer is ignored. Also, when you select sort with auto calculation set on multiple layers, you must sort on all heading layers which have auto calculations.

5. In **Sort by**, select the options by which to sort:
  - a. From the first drop-down list, select the headings or row or column on which to base the sort, then select **Ascending** or **Descending** for the sort order.
  - b. **Optional:** Use the **Then by** drop-down lists to set up one or two additional sorts parameters.
6. **Optional:** Click **Add Sort** to set up additional sorts:
7. Click **OK**.

## Modifying the Font

To modify the font displayed in a grid:

1. Open a report and select a cell or cells in a grid.
2. Select **Format**, and then **Cell**.
3. In the **Format Cells** dialog box, select the **Font** tab and define the desired font.

The following default fonts are available:

- Arial
- Arial Unicode MS
- Comic Sans MS
- Courier New
- Georgia
- Impact
- Microsoft Sans Serif
- Plantagenet Cherokee
- Tahoma
- Times New Roman
- TrebuchetMS
- Verdana

In addition to the default fonts, running the Print Server Utility can fetch more fonts from the system based on availability. These additional fonts will be displayed in the list of fonts.

4. Click **Apply**, and then **OK**.

## Creating Custom Colors

Oracle Hyperion Financial Reporting Web Studio provides a palette of basic colors for text in reports and other artifacts. You can add to that palette by defining custom colors.

To define a custom color:

1. Open a report and select a cell or cells in a grid.
2. Select **Format**, and then **Cells**.
3. In the **Format Cells** dialog box, in the **Font** tab, click the arrow next to **Color**, and then click **Custom Color**.
4. In the **Select Custom Colors** dialog box, define the custom color, and then click **OK**.

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**Note:**

Custom colors are not saved between Financial Reporting Web Studio sessions.

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## Adding Borders and Shading to Cells in Grids

You can apply borders and shading to add emphasis to selected cells, rows, or columns in a the grids. You can specify a border style and then apply it to any sides of the selected area. You can also select a shading color to apply shading to your selection.

To add borders or shading to cells in a grid:

1. Open report and select the cells to format in a grid.
2. Select **Format**, and then **Cell**.
3. In **Format Cells** dialog box, select the **Borders & Shading** tab.
4. To specify a border, select a line style for the border under **Style**, and then click one or more of the border placement buttons.
5. To add shading, select a color from the drop-down list under **Shading**.
6. Click **Apply** to preview your selections, and then click **OK**.

## Freezing Grid Headers

To freeze the row and column headings of a grid:

1. In the Report Designer, select the top left cell of the grid to select the entire grid.
2. In **Grid Properties**, select **Freeze Grid Headers**.

## Hiding Grid Lines

To hide the lines in a grid when viewing a Oracle Hyperion Financial Reporting report in HTML Preview:

1. In the Report Designer, select the top left cell of the grid to select the entire grid.
2. In **Grid Properties**, select **Hide Grid Border in HTML**.

## Inheriting Cell Formatting

When formatting cells in a grid, you can inherit formatting from a cell and apply it to another cell. The following formatting options can be inherited from a cell in a grid:

- Number
- Alignment
- Font
- Borders and Shading
- Replacement Text

To inherit cell formatting:


1. Open a report and select a cell or cells in a grid.

2. Select **Format**, and then **Cell**.

3. In the **Format Cells** dialog box, in the **Inherit Formatting** tab:

- Select the formatting options to inherit.

To select all the formatting options under a category, select the check box next to the category. For example, to inherit all number formatting options, select the check box next to Number.

To select specific formatting options for a category, click , and then select the specific formatting options. For example, to inherit the Decimal Separator value under Number, expand Number, and then select the check box next to Decimal Separator.

To inherit all the formatting options, click

Select All

- Select the rows or columns from which to inherit the formatting.

You can select the Current Row or Current Column, or you can select a specific row or column number.

4. Click **Apply** and then **OK**.

---

---

**Note:**

You can only inherit from a cell that does not have previously defined inheritance. For example, if you format column A and then inherit formatting into column B, you cannot then inherit formatting from column B into column C. You can, however, format column A, select columns B and C, and inherit formatting for column B and C from column A.

---

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**Note:**

If you have inherited formatting and then modify the format of the cell to which you inherited formatting, the inheritance you established no longer applies. For example, if you inherit the font name property in cell A4 from cell B4 and you subsequently modify the font name in cell A4, the format inheritance no longer exists. This breaks the formatting link that was previously established between the two cells.

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## Copying Cell Formatting

You can copy cell formatting from a cell or range of cells and apply it to a destination cell or range of cells in a grid.

To copy cell formatting:

1. In the Report Designer, select or create a grid.
2. Format a cell or a range of cells.
3. Select the cell or range of cells containing the formatting to copy, and then click




4. Select the destination cell or range of cells to apply the copied formatting.

The formatting is changed when you release the mouse.

---

**Note:**



Using  to copy cell formatting does not copy inherited formatting or conditional formatting.

---

## Merging Several Cells Into One Cell

You can combine two or more cells into one cell in a grid. For example, you can combine several cells to create one data cell, text cell, or formula cell.

When you merge cells, the value and format of the upper-left cell is placed into the resulting merged cell. When the merged cell is separated into individual cells, all resulting cells inherit the formatting of the previously merged cell.

- To merge individual cells into a single cell, right-click the cells to merge, and then select **Merge**.
- To separate a merged cell back into individual cells, right-click the merged cell, and then deselect **Merge**.

## Using the Formula Bar

The formula bar provides a central location to create formulas and select members when setting up grids in Oracle Hyperion Financial Reporting Web Studio. The formula bar contains a text box to enter formulas and a drop-down where you can select functions when building formulas. If you select a member in a grid, member selection is activated on the formula bar.

The formula bar is displayed below the toolbar so you can easily access its functionality. It is visible but disabled when you are not using grids.

## Creating Formulas

When you select a cell, column, or row containing a formula, you can apply a unique formula to that cell. When you create formulas, keep in mind the following points:

- Use row or column formulas as opposed to cell formulas whenever possible.
- Use reference properties instead of functions when possible.

Rows, columns, or cell references can have a property associated with them. For example, the row reference: [ 1 : 5 ] . sum produces the same result as using the Sum function; Sum ( [ 1 : 5 ] ). However, the first formula executes faster since it is being used as a reference property.

- Avoid using cross-axis references and consider using a cell reference if possible.
- Use parentheses only when necessary.

Improper use of parentheses can result in unnecessary evaluation iterations within the evaluation routine of the calculation engine.

To create a formula:

1. In a grid, insert a formula row or column and select the formula cell.


To apply a formula to the entire column or row, select the column or row.

When you use a cell formula in a row or column formula, the cell formula should reference the cells exactly (intersection) and not just the row and column.

See [Defining Formula Rows and Columns](#).


2. Select a function from the drop-down list, and then enter the formula in the formula text box to the right of the drop down.

See [Using Functions](#).

3. Click  to validate the formula.

## Deleting a Formula Row or Column

To delete a formula row or column:

1. Select the formula row or column.
2. Click  next to the formula in the formula bar.

## Modifying Member Selection Using the Formula Bar

When working with members in a grid, you can use the formula bar to modify the selected members.

To modify member selection using the formula bar:

1. In a grid, select a heading cell of a data row or column.
2. Click the button for the dimension next to the formula bar.
3. In the **Select Members** dialog box, select or remove members.

The new members are displayed in the grid. For information on member selections, see [Assigning Members Using Functions](#).

4. Click  to accept the member entry.

The grid is set to obtain data for the new member/member function.

When modifying member selection using the formula bar, keep in mind the following points:

- Member names in the formula bar is not case-sensitive.
- A member function can be entered dynamically on data heading cells. See [Assigning Members Using Functions](#).
- You cannot combine numerical functions with member functions; for example, `Sum(Children of (Product) (Inclusive))`.



## Example Report with Formulas

Figure 1 shows the use of a formulas to summarize data for the year.

**Figure 3-3 Formula That Summarizes the Data For the Year**

Report

Name

▼ Report1

Header

▼ Body

Grid1

Footer

Measures: Measures

Market: Market

Scenario: Actual

Sum()

Sum(Cell[A, 1])

		A											B	C		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total all months	Avg per month	
1	Product													#		#

The report resulting from this formula will include:

- Monthly total figures for the "Product" dimension
- A total for all months calculated using the Sum function
- An average amount per month, calculated using the Avg function

To create this example using Oracle Hyperion Financial Reporting Web Studio:

1. Create a grid with "Product " for the row and "Year" for the column.
2. Double-click "Year" to bring up member selection.
3. Place all twelve months in the selected pane and remove "Year."
4. Insert two formula columns: one for the "annual total " and another for the "average monthly amount."

In this example:

- The first formula column that falls outside the months of the "Year" member contains a Sum function that adds the figures for each month. Since all months are defined in one cell, the reference is to that cell location.

The formula is:

```
Sum(Cell[A,1])
```

- The second formula column calculates the average of the months for the "Year" member. Because there are 12 months in a year, the Avg function adds all monthly totals and divides the total by 12.

The formula is:

```
Average(Cell [A,1])
```

In general, there are two ways to specify a data formula in a grid, a row or column formula, or a cell formula:

- **Row/Column**—Apply a formula to the entire row or column, relative to each cell in that row or column.

To define the formula, select the formula row or column header to highlight the entire row or column, and then enter the formula in the formula bar. There are some performance benefits when applying row/column formulas.

- **Cell**—Apply a formula only to cells in a formula row or column.

To define the formula, select the cell, then select **Use a Custom Formula** in the Cell Properties, and then enter the formula in the formula bar.

If the cell intersects a formula row and formula column, you can select to use the row formula or the column formula as the cell formula. For more information, see [Calculating at the Cell Level](#).

If a formula repeats for each cell in a row or column, use a "Row/Column" formula. If different formulas are performed on each cell, use a "cell" formula.

## Assigning Multiple Database Connections to a Grid

You can retrieve data from different database connections and define the database connection for each data row or data column.

You can preserve the members selected in the grid for the database connection on a grid row or column. You must map all dimensions that are assigned to rows or columns in a grid. Dimensions on the point of view (POV) need not to be mapped.

Database connections must be of the same type; for example, both must be Oracle Essbase database connections or both must be Oracle Hyperion Financial Management database connections. Multiple data sources in one grid that are of different types (Financial Management, Oracle Hyperion Planning, Essbase) are not supported. To retrieve data from a different database type, add a second grid to the report. The second grid retrieves data from a different database type connection. In the first grid, reference the data from the second grid with formulas. Use text functions to display the correct member names for the formulas and hide the display of the second grid in the report.


To assign multiple database connections to a grid:

1. In a grid, select one or more data rows or columns for which you want to change the database connection.

2. In **Row Properties** or **Column Properties**, click the **Database Connection** button



3. In the **Database Connection Properties** dialog box, select an existing data source from the drop-down list or click **New Connection** to create a new database connection, and then click **OK**.

To create another database connection of the same type, select another data row or column, then click  again.

4. In the **Map Dimensions Between** dialog box, map dimensions between the default database connection and the selected database connection.

To map dimensions, for each dimension in the left column, select a dimension from the drop-down list in the right column.

5. **Optional:** Select an alias table for the new database connection.
6. Click **OK**.

## Setting Data Query Optimization Options

When working with grids, you can set data query optimization options to optimize the efficiency of your data queries. Because data queries extract values from a multidimensional database connection, it is beneficial to speed up the data query process using the optimization settings.

Because data queries extract one or more values from a multidimensional database connection, it is beneficial to speed up this process using the data query optimization settings.

For example, you can specify suppression options on your servers and include or exclude the sparse command, which is used to address the low probability that data exists for every combination of dimension members. A dimension is sparse when intersections of data are empty.

---

### Note:

When applying optimization options, you may use MDX (Multidimensional expression) to query Oracle Essbase data sources on a grid basis or report script.

---

To set data query optimization options:

1. In a report that contains a grid, do one of the following:

- Select **Task**, and then **Data Query Optimization Settings**.
- Click the top left cell in the grid to select the grid, and then right-click and select **Data Query Optimization Settings**.

The options that display in the Data Query Optimization Setting dialog box, depend on the database connection. For example, the Essbase Sparse Command option is only displayed when Essbase is the database connection.

2. Select whether to suppress rows on the **Database Connection Server** or the **Report Server**.

3. **Essbase Only:** Specify whether to query a report using MDX (Multidimensional Expression) or a report script.:

- Clear **Essbase Queries Use MDX** to use report scripts to query the Essbase database.

This disables the Show Drill Through setting on the grid. In order to use Essbase Drill Through, the report has to use MDX query.

- Select **Essbase Queries Use MDX** to use MDX to query the Essbase database, then select how to run the query:
  - **Combine queries using with members** (this is the default). This method combines the MDX queries into a single query using the MDX with membersyntax. By minimizing the number of queries, performance should be improved.

- **User separate queries.** This method issues separate MDX queries for each row which has a member selection function (for example, "Descendants of" or "Children of").

4. **Essbase Only:** In **Sparse Command** is, select **Included** or **Excluded** to specify whether to include or exclude the Essbase sparse command.

The Sparse Command option is only displayed when the database connection uses an Essbase a data source.

5. **Optional:** Click **Set to Default** to use the settings defined here as the default data query optimization settings.
6. Click **OK** to save the settings.

## Showing Supporting Detail for Planning

When you use a Oracle Hyperion Planning database connection and select a row, you can display supporting detail for a member. If supporting detail exists for one or more cells in the selected row, additional rows are inserted to show the supporting detail. In addition, you can control whether a page break is allowed within the rows of supporting detail.

To show supporting detail for a Planning database connection:

1. In a grid, select a row that contains a member with supporting detail.
2. In **Row Properties**, select **Display Supporting Details**.
3. Specify whether to allow page breaks in the rows of supporting detail:
  - To allow a page break in the rows of supporting detail, select **Allow Page Break Within**.
  - To keep the parent member and the supporting detail on the same page, clear **Allow Page Break Within**. If the supporting detail does not fit on the current page, the parent member and supporting detail is moved to the next page.

If the supporting detail spans multiple pages, this option defaults to **Allow Page Break Within** and page breaks are used.

4. **Optional.** To position the supporting detail before or after the parent member, in the **Grid Properties**, under **Position**, select an option in **Position of Supporting Detail**.
5. **Optional.** To indent each generation in the supporting detail:
  - a. Select the heading cell of the member that is going to display the supporting detail.
  - b. Select **Format**, then **Cells**, and then the **Alignment** tab.
  - c. In **Indent Increases for Each Generation by**, select a positive number to indent (to the right) each generation in the supporting detail list, or select a negative number to indent in reverse (to the left) each generation in the supporting detail list.

This property applies only to the heading cells in the rows. It is enabled for Planning database connection only when **Display Supporting Detail** is selected.

6. **Optional.** To apply additional formatting to supporting detail, use conditional formatting. The following two options are useful:

- **Supporting Detail**—If, at runtime, supporting detail results from a cell, you can format the supporting detail.
- **Relative Generation**—You can format the different generations of supporting detail independently. For example, if the resulting hierarchy of a member includes four generations of supporting detail, you can specify to format the third generation. The conditions would resemble the following example:

Condition 1: If

Supporting Detail Is True      And

Relative Generation (of) Market = 3

---

**Note:**

In order for all types of database connections to use relative generation, you must select a member relationship that returns members on multiple levels. For example, Children of...(Inclusive), Descendants of..., Descendants of ... (Inclusive), Parents of...(Inclusive), Ancestors of, Ancestors of...(Inclusive), and AllMembers. For Planning, you can use relative generation with a member or dynamic member if supporting detail is turned on.

---

## Displaying Line Item Detail for Financial Management

In Oracle Hyperion Financial Management database connections, you can select whether to display line item detail for rows only on "Account" dimensions. You can also select whether the line item detail will be displayed before or after the parent member of the line item detail. To display line item detail, all dimensions must be set to a Level 0 member.

To display line item detail for Financial Management:

1. Open a report and select a row in the grid.
2. In **Row Properties**, select **Display Line Item Details**.
3. **Optional:** In **Grid Properties**, select **Position**, and then select an option:
  - **Before Members**—Displays line item detail before the parent member
  - **After Members**—Displays line item detail after the parent member

## Saving a Grid

When you save a grid, you can create a link between the grid and the source object in the repository. When you save the grid in the repository, you can reuse it by linking it to another report.

---


**Note:**

You must be assigned a Power User or Oracle Hyperion Planning Service Administrator role to perform this function.

---

To save a grid in the repository:

1. Do one of the following:

- Right-click the grid, and then select **Save**.
- Select the grid, and then click .

2. In the **Save Report Object** dialog box, select a folder in which to store the grid, or create a new folder.

3. Enter a **Name** and a **Description**.

For the name, you can use upper and lowercase letters, spaces and numbers. You cannot enter special characters such as %, ?, +, <, >, |, @, #, \$, ^, &, \*.

4. Do one of the following:

- Select **Link to Source Object** to create a link from the grid object in the report to the source object in the repository,
- Clear **Link to Source Object** to save the grid without creating a link from the grid in the report to the saved source object in the repository.

For a description of linked objects, see [Using Linked and Local Objects](#).

5. Click **Save**

When you save a grid, only the grid is saved, not the entire report design.

---

## Working With Text Objects

### Related Topics:

[Adding Text Objects](#)

[Adding a New Text Object](#)

[Inserting an Existing Text Object](#)

[Formatting Text Objects](#)

[Saving Text Objects](#)

### Adding Text Objects

Text objects are report objects that can contain text or text functions. For example, you can enter a label, description, or a function that retrieves the current date in a text box. You can enter multiple paragraphs of text. Like other report objects, you can move, resize, or reposition the area containing the text.

You can create a new text object or insert an existing text object into the report. New text objects are empty areas where you can enter text, text functions, or rich text from an editor or word processor. Text objects are stored in the repository and can be inserted into numerous reports. For example, you can add the same text object in all your report designs.

---

#### Note:



If you use text objects that do not contain text as design elements in a report, uncheck the **Autosize** text box in **Text Properties** to ensure that the text object is displayed correctly in the report.

---

### Adding a New Text Object

To add a new text object:

1. Do one of the following:

- Click , and then position the text object in the Report Designer.
- Select **Insert**, then **Text**, and then position the text object in the Report Designer.
- In the **Header**, **Body**, or **Footer** section of the Report Designer, click , and then select **Text**.

2. Enter the text in the text box.

To format the text, use the tool bar at the top of the text object. You can modify the properties of a text object under **Text Properties**. To insert a function in the text object, click **Insert Function** under **Text Properties**.

## Inserting an Existing Text Object

To insert an existing text object from the repository:

1. Open a report and select **Insert**, and then **Saved Object**.
2. In the **Type** drop-down list, select **Text**.
3. Select the directory where you want to search for the text object, then select the desired text object.
4. Perform an action:
  - To use the text object as a linked object, select **Link to Source Object**.
  - To use the text object as an unlinked object, deselect **Link to Source Object**. This is the default option.
5. Click **Insert**.

## Formatting Text Objects

**Related Topics:**

[Defining Fonts for Text](#)

[Adding Borders and Shading to Text](#)

[Aligning Text](#)

## Defining Fonts for Text

To define the font for text:

1. Open a report and select the text in a text box.
2. Define the font using the formatting options on the format bar above the text box.

The following default fonts are available:

- Arial
- Arial Unicode MS
- Comic Sans MS
- Courier New
- Georgia
- Impact
- Microsoft Sans Serif



- Plantagenet Cherokee
- Tahoma
- Times New Roman
- TrebuchetMS
- Verdana

In addition to the default fonts, running the Print Server Utility can fetch more fonts from the system based on availability. These additional fonts will be displayed in the list of fonts.

## Adding Borders and Shading to Text

To add border and shading to text:

1. Open a report and select the text in a text box.
2. In **Text Properties**, select **Show Border**, and then select an option from the **Shading** drop-down list.

## Aligning Text

To align the text in a report:

1. Open a report select a text box.
2. In **Text Properties** under **Position**, select a **Horizontal** and a **Vertical** position.

## Saving Text Objects

Text objects can be saved to the repository for reuse when building reports. When you save a text object, you can create a link between the text object and the source object in the repository. When you save a text object in the repository, you can insert it into a report as a linked or an unlinked object.

---

---


**Note:**

Changes to a linked object are not saved when you save and close your design.

---

---

To save a text object in the repository:

1. Do one of the following:
  - Right-click the text object, and then select **Save**.
  - Select the text object, and then click .
2. In the **Save Report Object** dialog box, select a folder in which to store the text object, or create a new folder.
3. Enter a **Name** and a **Description**.

For the name, you can use upper and lowercase letters, spaces and numbers. You cannot enter special characters such as %, ?, +, <, >, |, @, #, \$, ^, &, \*.

4. Do one of the following:

- Select **Link to Source Object** to create a link from the text object in the report to the source object in the repository,
- Clear **Link to Source Object** to save the text object without creating a link from the text object in the report to the saved source object in the repository.

For a description of linked objects, see [Using Linked and Local Objects](#).

5. Click **Save** to save the text object to the repository.

When you save a text object, only the text object is saved, not the entire report design.

---

## Working With Images

### Related Topics:

[Inserting Images](#)

[Formatting Images](#)

[Saving Images](#)

### Inserting Images

You can add images to the header, footer, or body of a report. After you add an image to a report, you can format the image. The following image formats can be inserted into a report in Oracle Hyperion Financial Reporting Web Studio:

- Bitmaps: .bmp
- Graphics Interchange Format (GIF): .gif
- Joint Photographic Experts Group (JPEG): .jpg

You can insert an image file that is stored in a file system outside Financial Reporting Web Studio into the image frame, or you can insert an entire image object that is saved in Financial Reporting Web Studio.

---



#### Note:

Images are saved with the report. As a result, the speed of the application may be affected based on the size of the image.

---


To insert an image located outside of Financial Reporting Web Studio:

1. Do one of the following:

- Click , and then draw or position the image in the Report Designer.
- Select **Insert**, then **Image**, and then draw or position the image in the Report Designer.
- In the **Header**, **Body**, or **Footer** section of the Report Designer, click , and then select **Image**.

2. In **Image Properties**, click **Browse**, and then select the image to insert.

To insert an image from the repository:

1. Do one of the following:
  - Open report and select **Insert**, and then **Saved Object**.
  - In the **Header**, **Body**, or **Footer** section of the Report Designer, click , and then select **Saved Object**.
2. In the **Insert Saved Object** dialog box, in the **Type** drop-down, select **Image**.
3. Select the desired image, and then click **Insert**.
4. Click **Insert**.

## Formatting Images

You can format the display of images in a report. For example, once you place an image, you can stretch the image, insert a page break before the image, and specify horizontal and vertical positions for the image.

To format an image in a report:

1. Open a report and select an image.
2. In **Image Properties**, define the following information:
  - **Page Break Before**—Places a page break before the image.
  - **Stretch**—Expands or shrinks the image to fill the size of the image boundary in the Report Designer workspace.
  - **Position**—Options to position the image in the report.


### Tip:

To move the image, select the image, and with all borders activated, drag it to another location. Do not click and drag the borders of the image, because this stretches the image vertically or horizontally. Be sure to select the entire image.

## Saving Images

When you save an image, you can create a link between the image object and the source object in the repository. Linking report objects to a source object saves time and effort. By updating one source object, you update all reports that are linked to this source object.

To save an image to the repository:

1. Do one of the following:
  - Right-click the image, and then select **Save**.
  - Select the image, and then click .
2. In the **Save Report Object** dialog box, select a folder in which to store the image, or create a new folder.

**3. Enter a Name and a Description.**

For the name, you can use upper and lowercase letters, spaces and numbers. You cannot enter special characters such as %, ?, +, <, >, |, @, #, \$, ^, &, \*.

**4. Do one of the following:**

- Select **Link to Source Object** to create a link from the image object in the report to the source object in the repository,
- Clear **Link to Source Object** to save the image object without creating a link from the image in the report to the saved source object in the repository.

For a description of linked objects, see [Using Linked and Local Objects](#).

**5. Click Save**

When you save an image, only the image is saved, not the entire report design.



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# Working With Charts

## Related Topics:

[About Charts](#)

[Inserting a Chart](#)

[Defining Chart Data](#)

[Defining Chart Titles, Legends, and Labels](#)

[Formatting Charts](#)

[Positioning Charts in Reports](#)

[Resizing and Moving Charts](#)

[Saving Charts](#)

[Updated Charting Engine](#)

## About Charts

A chart is a graphical representation of report data from a grid on a report. The chart retrieves data dynamically from the grid, so if data in the grid changes, the chart is updated automatically. You create charts to portray data graphically in your reports. You can use the different chart types to illustrate trends and tendencies or to highlight differences and improvements.

### Types of Charts



- Bar Chart
- Line Chart
- Pie Chart
- Combo

### Chart Components

- Chart type and data content
- Chart attributes such as title, title angle, font angle, and background formatting
- Legend and axis information such as labels, font, background color, and orientation
- Formatting options specific to a chart type, such as bar width for a bar chart
- Horizontal and vertical positioning of a chart on a report

## Inserting a Chart

To insert a chart:

1. Do one of the following:
  - Click , and then position the chart in the **Body** section in the Report Designer.
  - Select **Insert**, then **Chart**, and then position the chart in the **Body** section in the Report Designer.
  - In the **Body** section in the Report Designer, click , and then select **Chart**.
2. Modify the chart using the options in **Chart Properties**.

To insert a chart object from the repository:

1. Open a report and select **Insert**, and then **Saved Object**.
2. In the **Type** drop-down list, select **Chart**.
3. Select the desired chart object, and then do one of the following:
  - To use the chart object as a linked object, select **Link to Source Object**.
  - To use the chart object as an unlinked object, clear **Link to Source Object**. This is the default.
4. Click **Insert**.

## Defining Chart Data

When defining chart data, you identify the rows and columns from the controlling grid that contain the data to display. You can reference data or formula rows and columns by selecting contiguous or non-contiguous rows and columns for the data range. You can also include or exclude auto calculations from the data set.

If you are designing a line, bar, or combo chart, you can reference multiple rows or columns from the grid. If you are designing a pie chart, you can reference any single row or column from the grid. When you define a combo chart, you specify the data rows and columns for the bar and line.

Charts display aggregate rows or aggregate columns that expand. For example, if you specify row 1 and row 1 contains a function that retrieves ten child members, the chart displays ten data sets, or one data set for each child member.

To define chart data:

1. Select the chart in the Report Designer.
2. In **Chart Properties**, under **Grid**, select the grid that the chart will reference.

The grid must exist in the current report.
3. In **Legend Items from Grid**, select **Rows** to reference row data or **Cols** to reference column data.



4. In **Data Range**, under **Rows** and **Cols**, select the rows and columns to include in the chart.

When selecting a data range, you can specify contiguous or non-contiguous rows and columns.

5. **Optional.** Select **Include Auto Calculation** to include auto calculations from the data set in the chart.

## Defining Chart Titles, Legends, and Labels

You can format chart titles, chart legend titles, chart axes titles, and axis labels in a chart. You can also format the font and borders and background of the titles and axes you indicate.

### Defining Chart Titles

To define a chart title:

1. Open a report and select a chart.

2. In **Chart Properties**, click .
3. In the **Appearance** tab, in the **Chart Title** text box, enter a title for the chart.

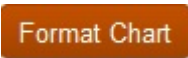


To print the title on multiple lines, use \n in the title. To indicate a possessive apostrophe, use \' s. You can combine these commands to use apostrophes with titles that span multiple lines.

4. Enter other desired formatting options on the **Appearance** tab, and then click **OK**.

### Defining Chart Legends

To define chart legend options:

1. Open a report and select a chart.

2. In **Chart Properties**, click .
3. In the **Legend** tab, define the following options:
  - Select **Place Legend** to select the vertical and horizontal position of the chart legend relative to the chart boundaries.
  - Click  to format the border and background of the legend.
  - Click  to format the font used in the legend title and its labels.
  - In **Legend Title**, enter a title for the legend.
  - In **Suppress Repeating Labels**, select an option:
    - **Inherit Settings from Grid**—Inherit the settings from the grid to which the chart is attached.

- **On**—Suppress x-axis labels that would otherwise repeat.
- **Off**—Do not suppress x-axis labels that would otherwise repeat.

4. Click **OK**.

## Defining Chart Axis Titles

Metadata titles and primary and secondary axis titles identify the data that is displayed on the axes of a chart.

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**Note:**


Chart axis options are available for bar, line, and combo charts only.

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To define a chart axis title:

1. Open a report and select a chart.

2. In **Chart Properties**, click  **Format Chart**.

3. In the **Axes** tab, define the following options:

- In **Metadata Title**, enter the title for the horizontal axis.
- In **Primary Axis Title**, enter the title for the primary vertical axis. This is displayed to the left of the chart.
- In **Secondary Axis Title**, enter the title for the secondary vertical axis. This is displayed to the right of the chart.

4. For any of the options, click  to format the border and background of the axis title, and click  to format the font.

5. Click **OK**.

## Defining Axis Labels

You can define and format labels for the primary and secondary axis in a chart. For a combo chart, you can specify and format a secondary axis label. You can also display and format metadata labels.

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**Note:**




A primary or secondary axis label enables you to specify a custom range of values on the axis.

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To define axis labels:


1. Open a report and select a chart.

2. In **Chart Properties**, click .
3. In the **Axes** tab, define the following options:
  - Select **Show Metadata Labels** to show metadata labels with a standard display.  
Oracle Hyperion Financial Reporting implements staggered labels as a default to ensure the even distribution of data on report axes.
  - Select **Primary Axis Label** to use a range of values on the primary axis.  
You can use the default range of values or a custom range of values on the primary axis label.
    - To use the default range of values, select **Primary Axis Label**.
    - To use a custom range of values, select **Primary Axis Label**, and then enter a range of values, including minimum, maximum, and step.  
You can use a custom range to change the starting and ending numbers of your axis and the numeric intervals. For example, you can display values 40 through 60 at three step intervals by entering 40, 60, and 3 as the values **Min**, **Max**, and **Step**.
  - Select **Secondary Axis Label** to use a range of value on the secondary axis.  
You can use the default range of values or a custom range of values on the secondary axis label.
    - To use the default range of values, select **Secondary Axis Label**.
    - To use a custom range of values, select **Secondary Axis Label**, and then enter a range of values, including minimum, maximum, and step.
  - To enter a range of values, including minimum, maximum, and step, on the secondary axis in a bar or line chart, select the check box for **Secondary Axis Label** and the **Custom Range** check box.
4. For any of the options in the **Axes** tab, click  to format the border and background, and click  to format the font.
5. Click **OK**.

## Formatting Charts

You format charts to customize their appearance and layout in your reports. You can also format charts to portray data using different chart types.



To format a chart:

1. Select a chart in the Report Designer.
2. In **Chart Properties**, click .
3. In the **Format Chart** dialog box, define the formatting options for the chart.

The tabs that are displayed in the **Format Chart** dialog box depend on the type of chart you are formatting.

## Formatting Fonts



To format the fonts used in a chart:

1. Open a report and select a chart.
2. In **Chart Properties**, click .
3. In the tabs in the **Chart Properties** dialog box, click .
4. In the **Fonts** dialog box, format the fonts, and then click **OK**.

The **Fonts** dialog box enables you to preview your font option selections before returning to the chart.

## Formatting Borders

To format the chart borders:

1. Open a report and select a chart.
2. In **Chart Properties**, click .
3. In the tabs in the **Chart Properties** dialog box, click .
4. In the **Borders** dialog box, format the borders, and then click **OK**.

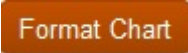
## Formatting Bars in Bar and Combo Charts

You can display bars in a bar or combo chart by grouping data sets and specifying their orientation on the chart. You can also display point values in a bar or combo chart. You can modify the shapes and widths of bars and bar borders.

Use the following guidelines to specify how bars are displayed in your charts:

- Vertical orientation starts the bars on the horizontal axis and displays the bars vertically.
- Horizontal orientation starts the bars on the vertical axis and displays the bars horizontally.
- The bar width represents the relative width of the bar as a percentage of available space. A smaller number results in more space between bars.
- The bar shape represents the shape of the displayed bars.
- You can apply shading (pattern and color) by data set using the Element Style tab of the Format Chart dialog box.

To format the bars in bar and combo charts:

1. Open a report and select a bar or combo chart.
2. In **Chart Properties**, click .
3. In the **Bar Options** tab, define the formatting options, and then click **OK**.

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**Note:**


Bar charts may not display point values if the data values do not fit in the bar. If point values do not display, re-size the chart or apply scaling to the data values in the grid to make the numbers smaller.

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## Formatting Lines in Line and Combo Charts

You can specify display options for lines in line and combo charts. For example, you can display lines in separate rows, stacked as a percentage of the total of all values, or stacked as absolute values.

To format lines in line and combo charts:

1. Open a report and select a line or combo chart.
2. In **Chart Properties**, click .
3. In the **Line Options** tab, define the line type, and then click **OK**
  - **Rows**—Displays the line sets in separate rows. For example, if you define the 3D depth as nonzero, the lines are displayed in separate rows, from front to back.
  - **Percent**—Displays the line sets stacked on top of each other, normalized to 100%. As each line set is drawn, its values are added to previous values displayed and are shown as percentages of the total of all values.
  - **Stack**—Displays the line sets stacked. As each line set is drawn, its values are added to previous values

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**Note:**

You can define styles for the lines representing the current data set. See [Defining Styles for Data Sets](#).

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## Formatting Combo Charts

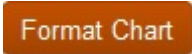
A combo chart combines a line chart and a bar chart. Typically used to contrast data sets, combo charts employ bar and line options and are set with the same variables as bar charts and line charts.

When you are formatting a combo chart, the Format Chart dialog box includes the Line Options tab and Bar Options tab. See [Formatting Bars in Bar and Combo Charts](#) and [Formatting Lines in Line and Combo Charts](#).

## Formatting Pie Charts

When creating a pie chart, you can specify the starting angle for the first pie slice, the level of separation between pie slices, the position and type of pie slice labels, and the slice border style and width. You can also set font options including font, font size, effects, and angle for the textual display of the slice values.

To format a pie chart:

1. Open a report and select a pie chart.
2. In **Chart Properties**, click .
3. In the **Pie Options** tab, define the formatting options, and then click **OK**.

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**Note:**

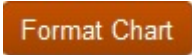
You can define styles for the slices of the pie that represent the current data set. See [Defining Styles for Data Sets](#)

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## Formatting Background and Gridline Options

You can set background options for a chart, such as a border, gridlines, gridline color, gridline style, and grid background. You can also set the grid depth.


To format background and gridline options:

1. Open a report and select a chart.
2. In **Chart Properties**, click .
3. In the **Appearance** tab, select options to define background and gridline options, and then click **OK**.

## Defining Styles for Data Sets

You can define a pattern and color for each data set in your report. The specified shading and patterns are applied to each data set to differentiate values in the chart.

To define styles for a data set:

1. Open a report and select a chart.
2. In **Chart Properties**, click .
3. In the **Element Style** tab, select a data set, and then define theme and colors.
4. Click **OK**.

## Positioning Charts in Reports

You can specify a chart's position on the report and how it is displayed when printed. You can specify a position relative to the grid, a position relative to other report

objects, or no position at all. If you do not specify a position, the chart remains in the location where it was originally created in the report.

To position a chart in a report:

1. Open a report and select a chart.
2. In **Chart Properties**, under **Position**, define the horizontal and vertical position of the chart.

## Resizing and Moving Charts

You can change the size of a chart and move a chart to another location in a report.

To resize a chart:

1. Click the name of the report that contains the chart to return to the report "layout view".
2. Click the chart.

The chart's border is highlighted in red to indicate that the chart is selected.

3. Click and drag a border on the perimeter of the chart to change the size.

To move a chart to another location in the report:

1. Click the name of the report that contains the chart to return to the report "layout view".
2. Click the chart.

The chart's border is highlighted in red to indicate that the chart is selected.

3. Hold down the left mouse button and drag the chart to another location in the report.


### Tip:

You must be in the "layout view" to move or resize a chart. If you click on a chart in the **Body** section of the Report Designer, you cannot move or resize the chart.

## Saving Charts

When you save a chart, you can create a link between the chart and the source object in the repository. Linking report objects to a source object saves time and effort. By updating one source object, you update all reports that are linked to this source object.

To save a chart to the repository:

1. Do one of the following:
  - Right-click the chart, and then select **Save**.
  - Select the chart, and then click .
2. In the **Save Report Object** dialog box, select a folder in which to store the chart, or create a new folder.

3. Enter a **Name** and a **Description**.

For the name, you can use upper and lowercase letters, spaces and numbers. You cannot enter special characters such as %, ?, +, <, >, |, @, #, \$, ^, &, \*.

4. Do one of the following:

- Select **Link to Source Object** to create a link from the chart object in the report to the source object in the repository,
- Clear **Link to Source Object** to save the chart object without creating a link from the chart in the report to the saved source object in the repository.

For a description of linked objects, see [Using Linked and Local Objects](#).

5. Click **Save**

When you save a chart, only the chart is saved, not the entire report design.

## Updated Charting Engine

Starting in Release 11.1.2.4.700, Oracle Hyperion Financial Reporting has an updated charting engine for an overall improved charting presentation and user experience.

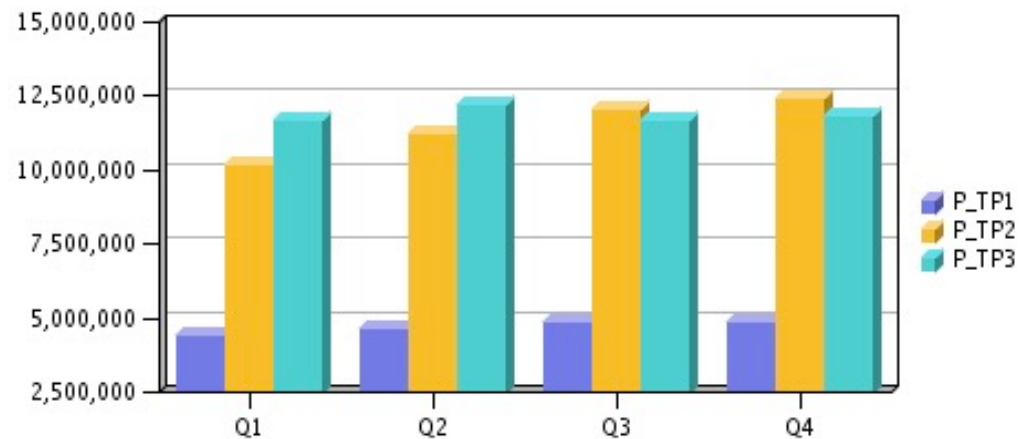
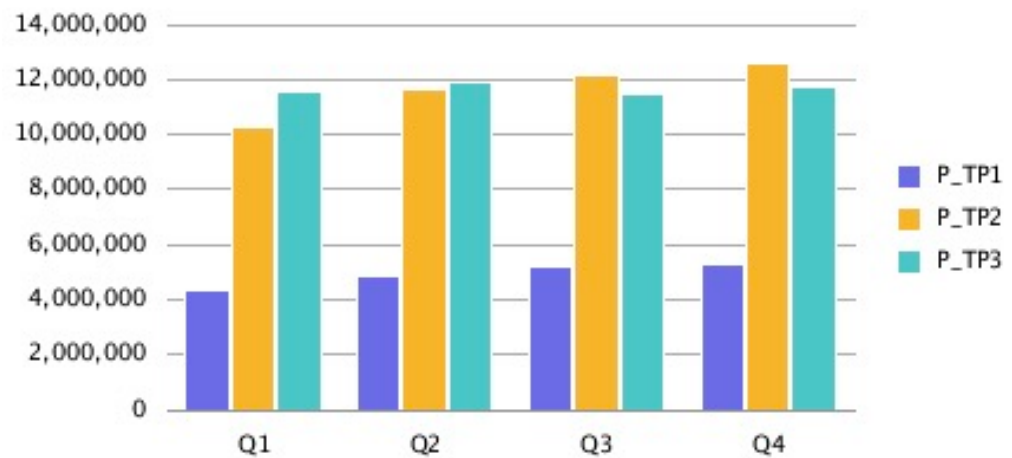
There are inherent differences between the old and new charting product features and functionality that may affect the rendered chart output and behavior. While best efforts have been made to keep the existing charting functionality, chart output may differ.

## Overall Appearance

Aside from functionality and rendering differences in specific charting user interface components, the following overall chart rendering differences exist:

- **Default Axis Scaling**—The default vertical axis scaling (without any custom ranges specified) may differ.
- **Axis Tick Marks**—The tick marks that appeared in the vertical and horizontal axes are no longer supported.
- **Default Bar Width**—The default bar width differs between the two charting engines.
- **Legend Spacing**—The spacing of the chart legend element data sets differs between the two charting engines.



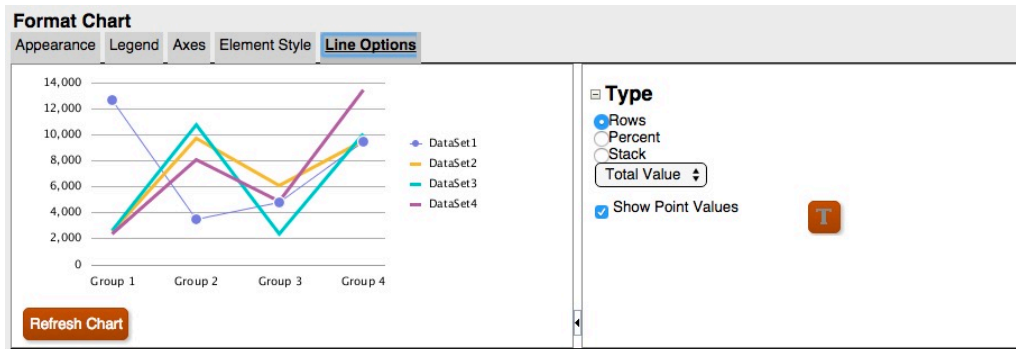
**Figure 6-1 Overall Appearance in the Original Charting Engine****Figure 6-2 Overall Appearance in the Updated Charting Engine**

## Chart Data Point Sizing and Display

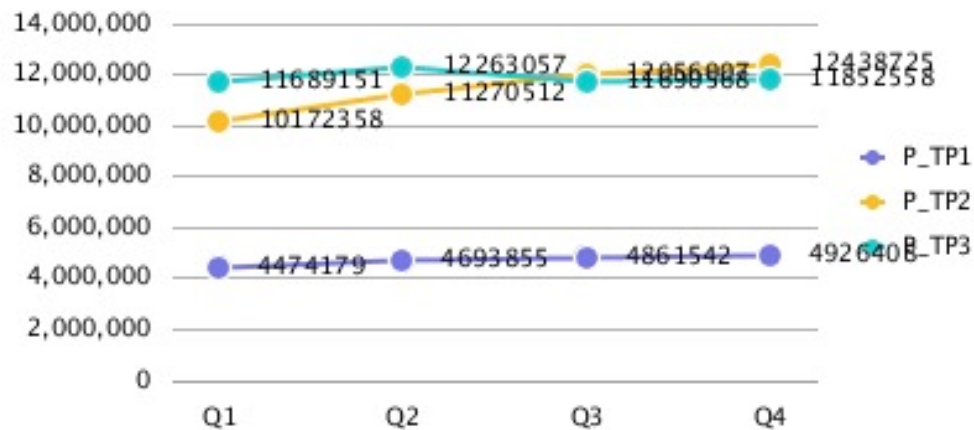
With the updated charting engine, the display of chart data values and legend labels may render differently from the original charting engine due to automatic sizing. This behavior differs by chart type and is dependent on the chart and font size as well as length of the data point values. In some cases, with chart data point and long legend labels, the chart may need to be resized and/or the font size reduced to achieve proper display. Additionally, for long numeric data point values, scaling may need to be applied to shorten the number length.

### Line Chart Example

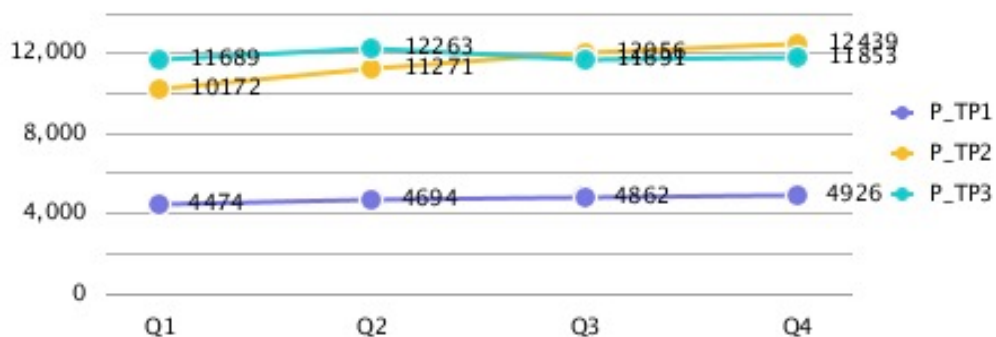
In this example, "Show Point Values" is enabled in the Line Options tab.

**Figure 6-3 Line Options Tab in the Updated Charting Engine**

However, the point values in the chart output overlap with the legend.

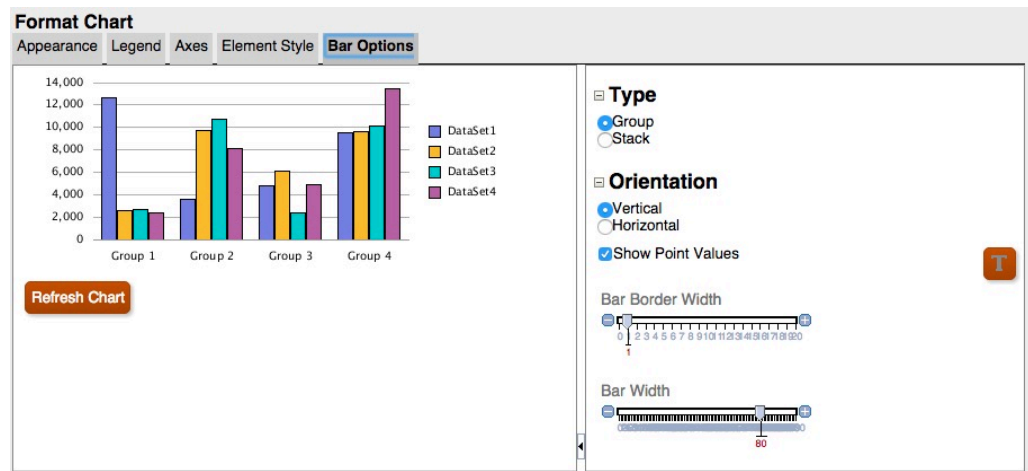
**Figure 6-4 Point Values Overlapping with the Legend**

Adjusting the number scaling in the grid to thousands reduces the length of the numbers and fits the data point values more tightly in the chart.

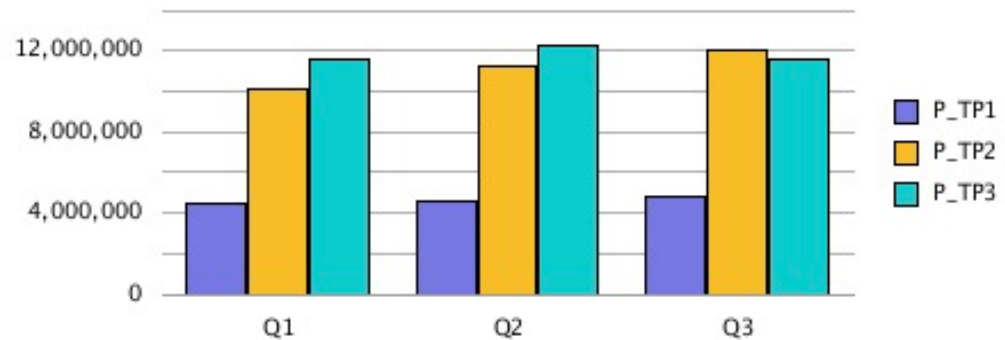
**Figure 6-5 Point Values Not Overlapping with the Legend**

### Bar Chart Example

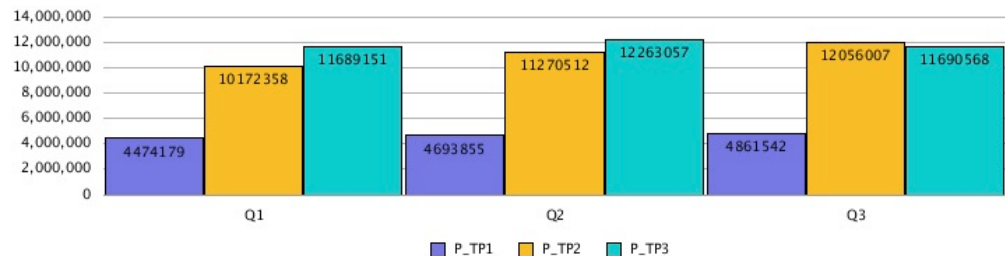
In this example, "Show Point Values" is enabled in the Bar Options tab.

**Figure 6-6 Bar Options Tab in the Updated Charting Engine**

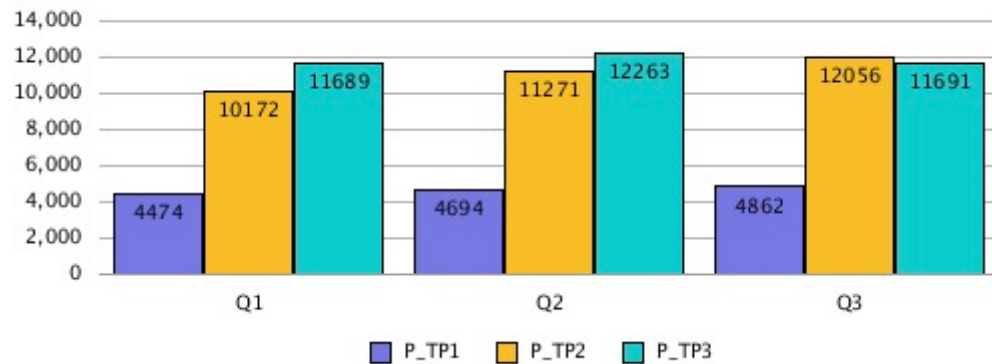
However, the point values do not appear in the bar since they are too wide to fit within the bar.

**Figure 6-7 Point Values Do Not Display in the Bars**

Widening the chart size on the report canvas, changing the grid width to 100, and setting the legend placement to the bottom of the chart fits the long data point values within the chart.

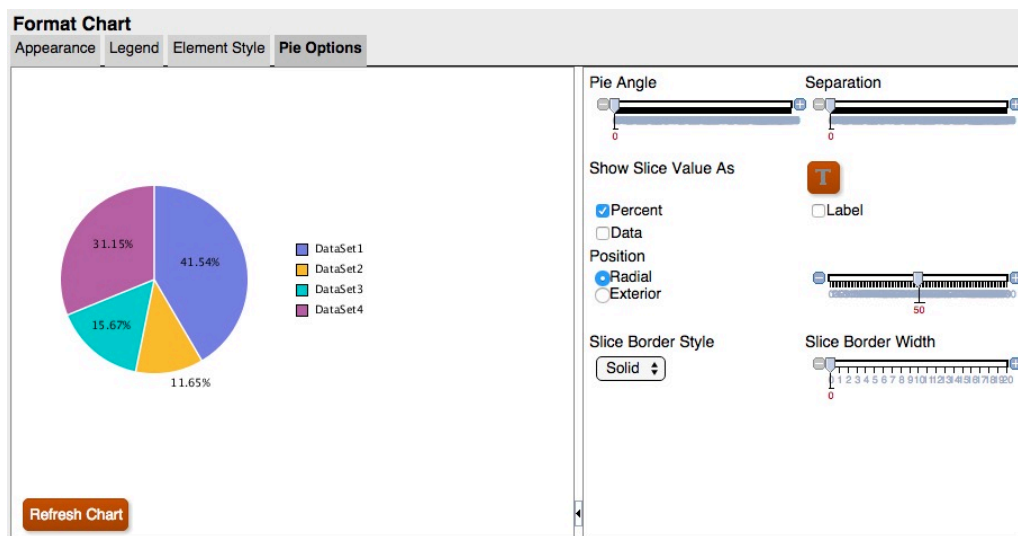
**Figure 6-8 Point Values Display in the Bars**

Alternately, adjusting the number scaling in the grid to thousands, placing the legend on the bottom, and changing the grid width to 90 reduces the length of the numbers and fits the data point values more tightly in the chart.

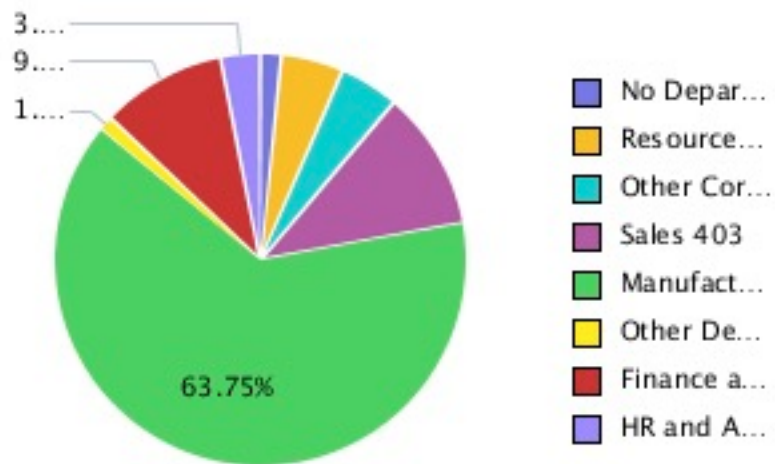
**Figure 6-9 Point Values Display in the Bars**

### Pie Chart Example

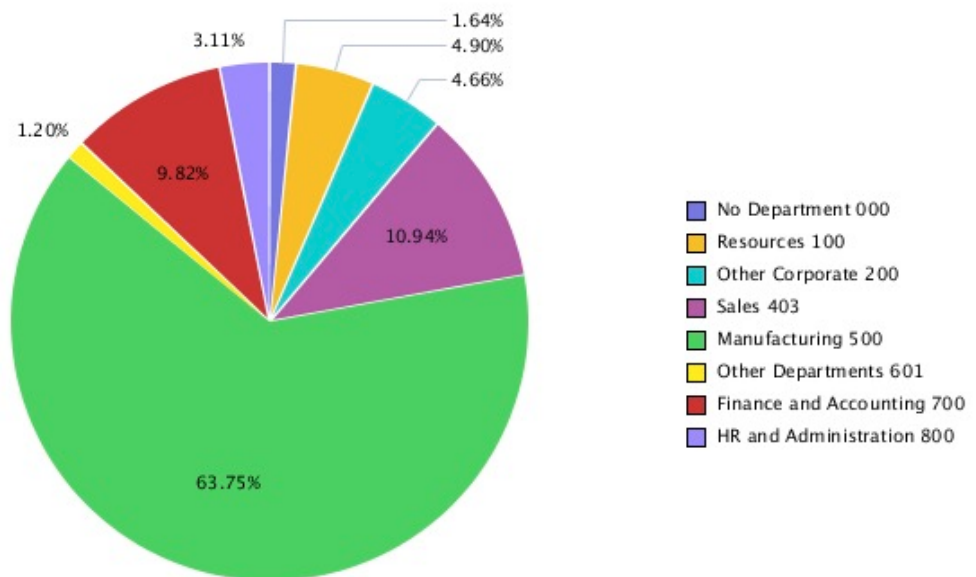
In this example, "Show Slice Value As" is set to "Percent", which shows a percentage data point for each slice of the pie.

**Figure 6-10 Pie Options Tab in the Updated Charting Engine**

The data points are cut off or not visible for some slices. In addition, the legend text is cut off.

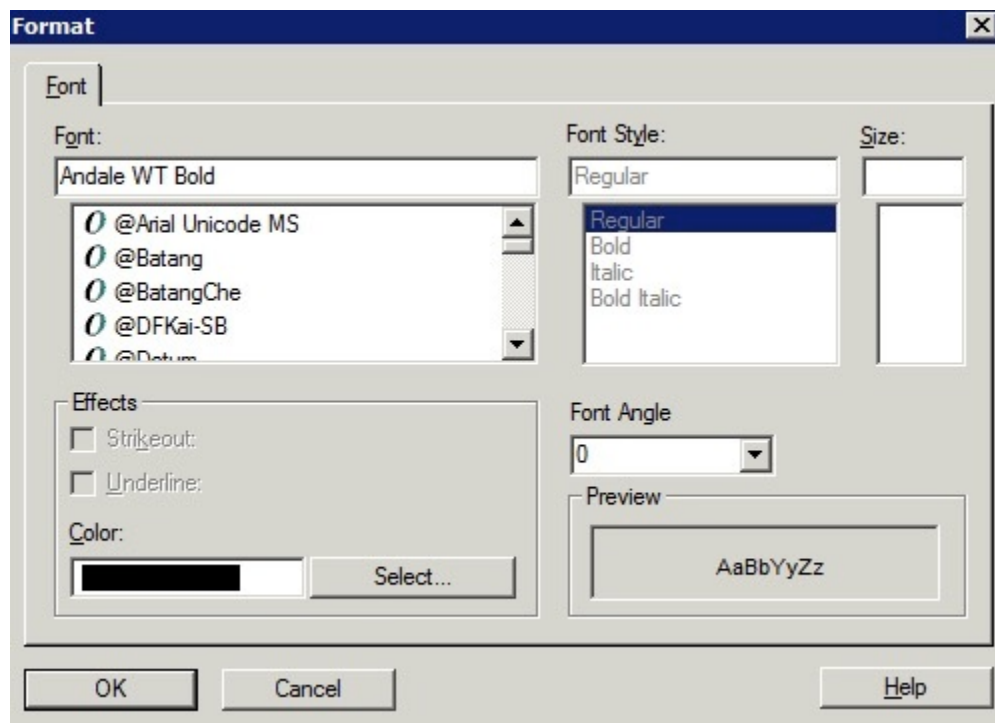
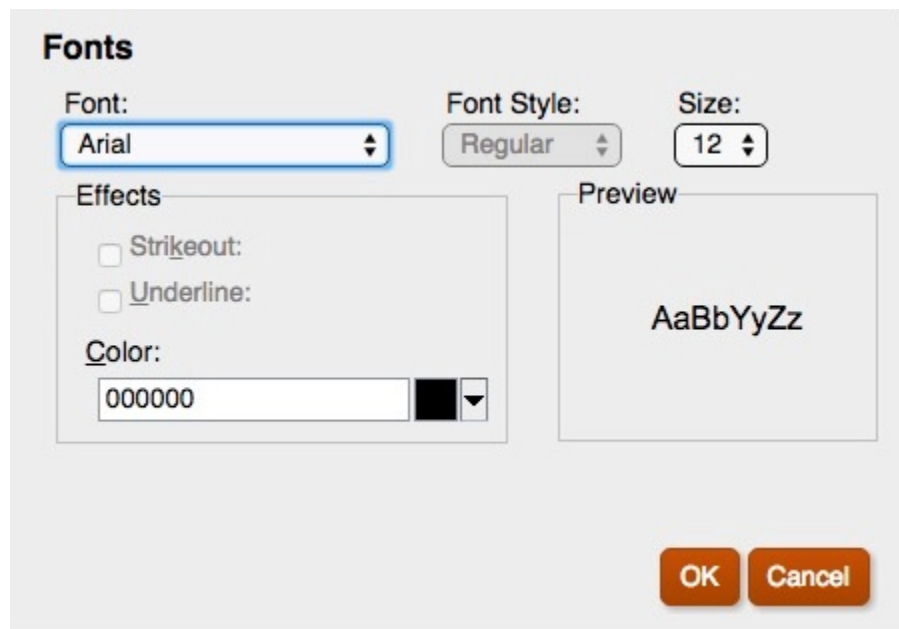
**Figure 6-11** *Pie Chart with Legend Data Points Cut Off*

By increasing the size of the chart on the report canvas, the entire legend and all data points are displayed.

**Figure 6-12** *Pie Chart Displaying the Legend and All the Data Points*

## Font Angles

The updated charting engine does not support font angles. All font settings for text in the Format Chart dialog box do not include a Font Angle setting.

**Figure 6-13 "Font Angle" Setting in the Original Charting Engine****Figure 6-14 No "Font Angle" Setting in the Updated Charting Engine**

## Tabs in the Format Chart Dialog Box

Related Topics:

[Appearance Tab](#)

[Legend Tab](#)

[Axes Tab](#)

[Element Style Tab](#)

[Bar Options Tab](#)

[Element Style Tab](#)

[Pie Options Tab](#)

## Appearance Tab

The following are the differences in the Appearance tab in the Format Chart dialog box:

- **Grid Depth**—The updated charting engine does not support the 3D appearance for Line, Bar and Combo charts. Pie charts are either 3D or not, there is no grid depth adjustment.
- **Smooth Font Option**—The Smooth Font option is not available in the updated charting engine, since font smoothing is already applied.
- **Chart Border**—The updated charting engine only supports background color.

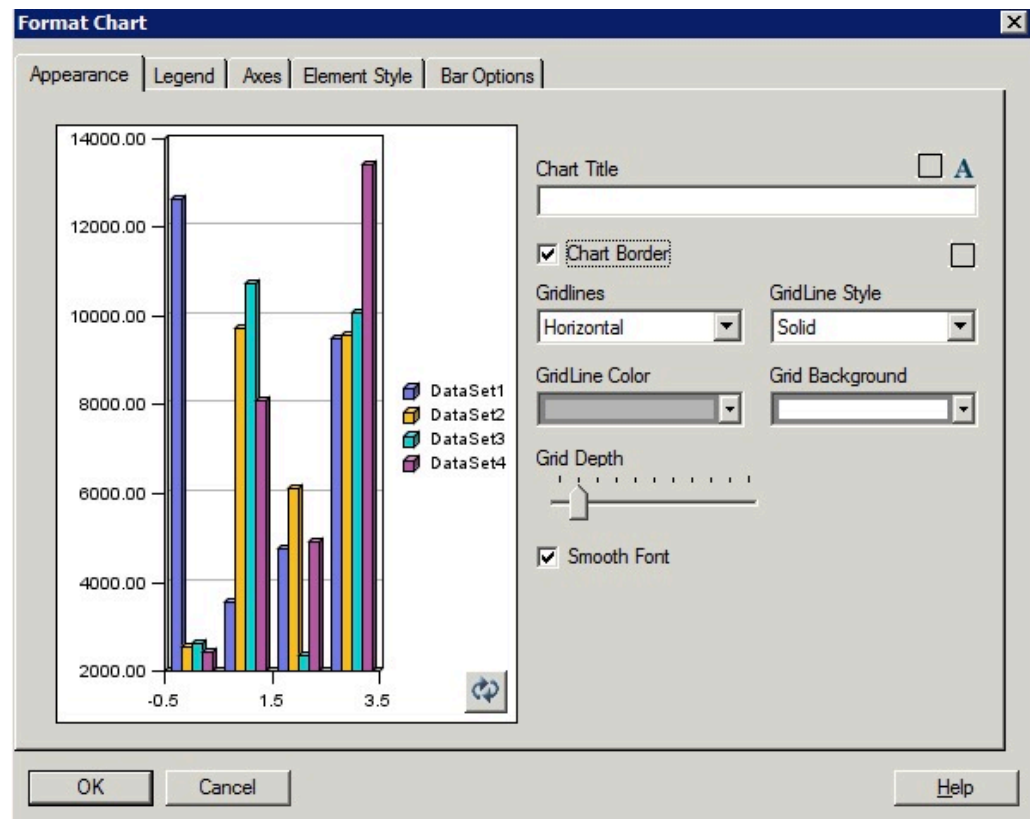
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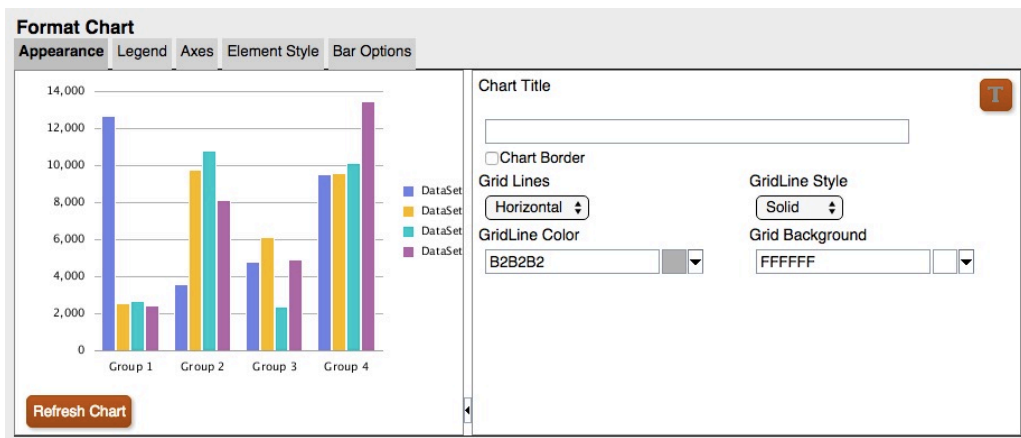
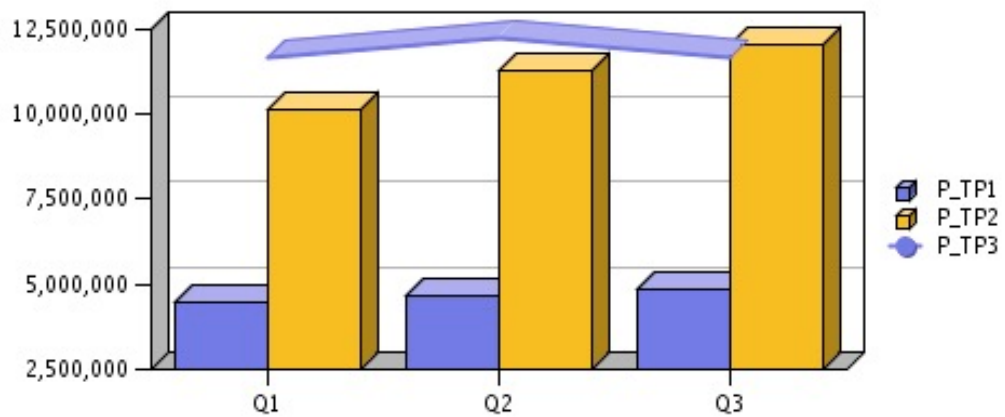
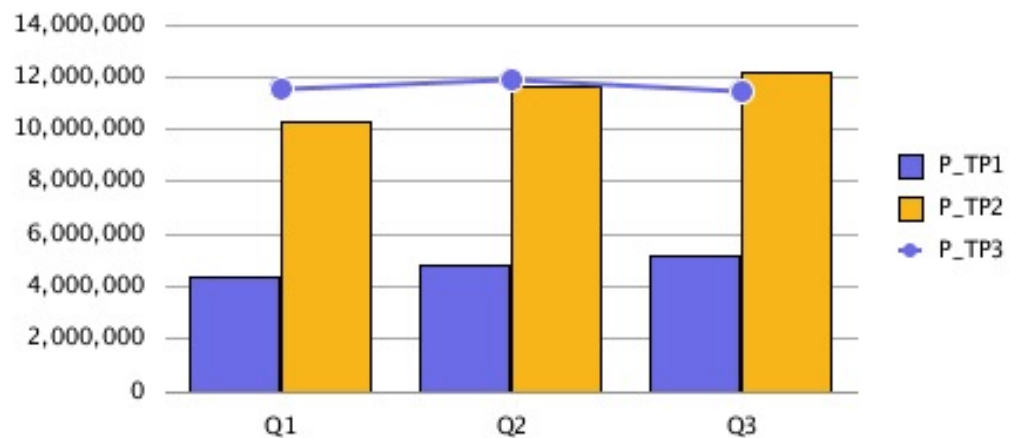
### Note:

Chart borders are currently not working in the updated charting engine.

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**Figure 6-15** *Appearance Tab in the Original Charting Engine*



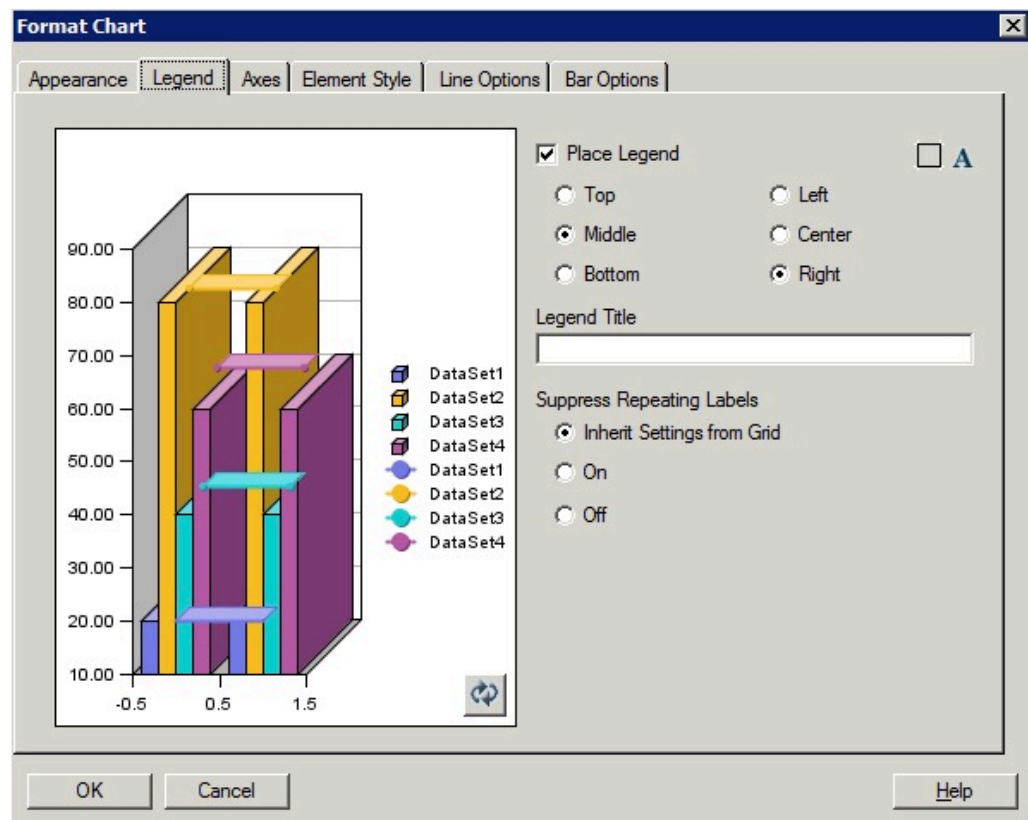
**Figure 6-16 Appearance Tab in the Updated Charting Engine****Grid Depth Differences****Figure 6-17 Grid Depth in the Original Charting Engine****Figure 6-18 Grid Depth in the Updated Charting Engine****Legend Tab**

The following are the differences in the Legend tab in the Format Chart dialog box:

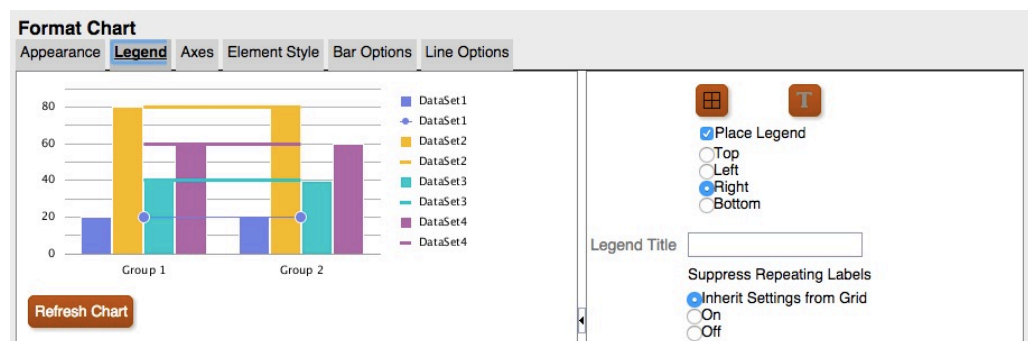


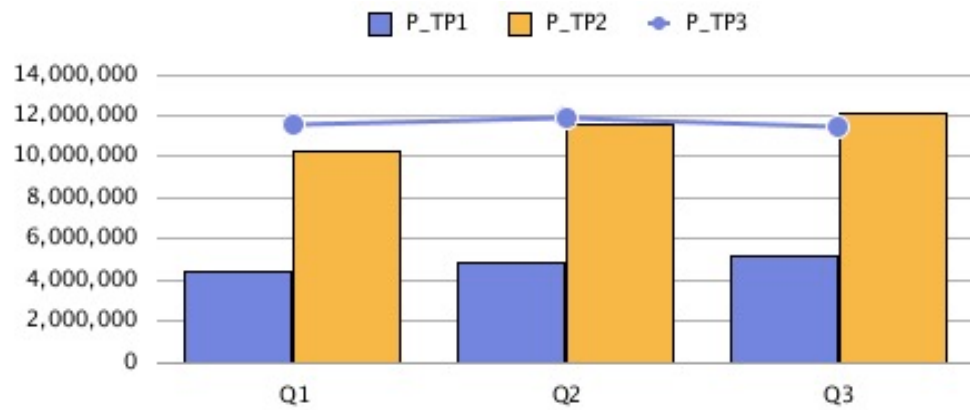
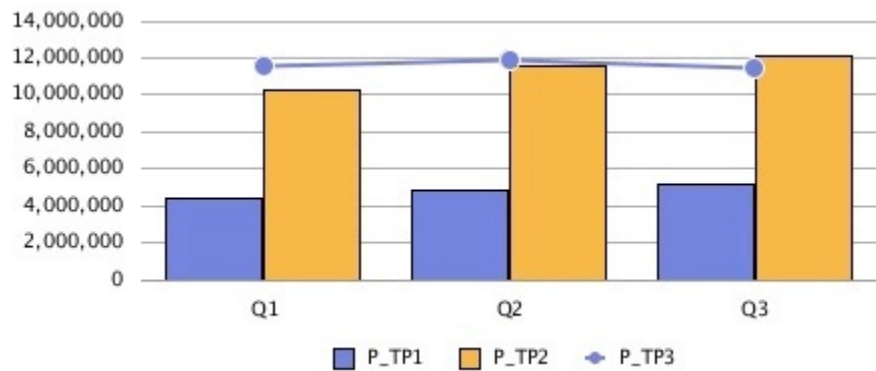
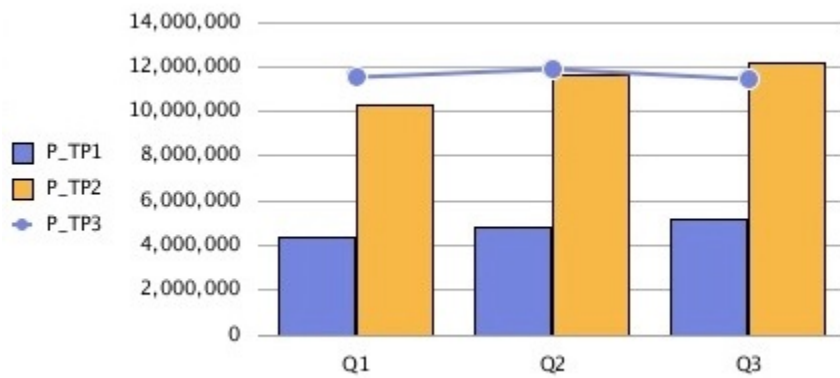
- The updated charting engine supports four "Place Legend" options: Top, Bottom, Left and Right.
- Middle and Center is always used for placement. For existing charts:
  - "Top" is "top and center"
  - "Bottom" is "bottom and center"
  - "Left" is "left and middle"
  - "Right" is "right and middle"

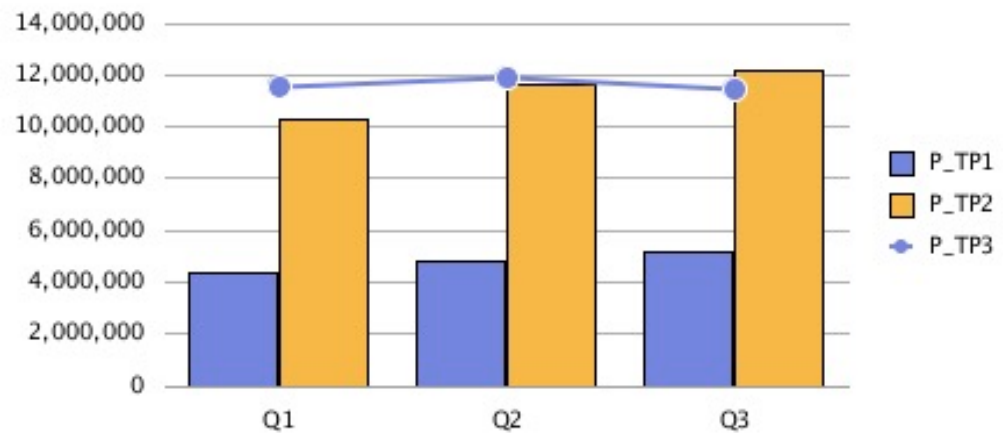
**Figure 6-19 Legend Tab in the Original Charting Engine**



**Figure 6-20 Legend Tab in the Updated Charting Engine**

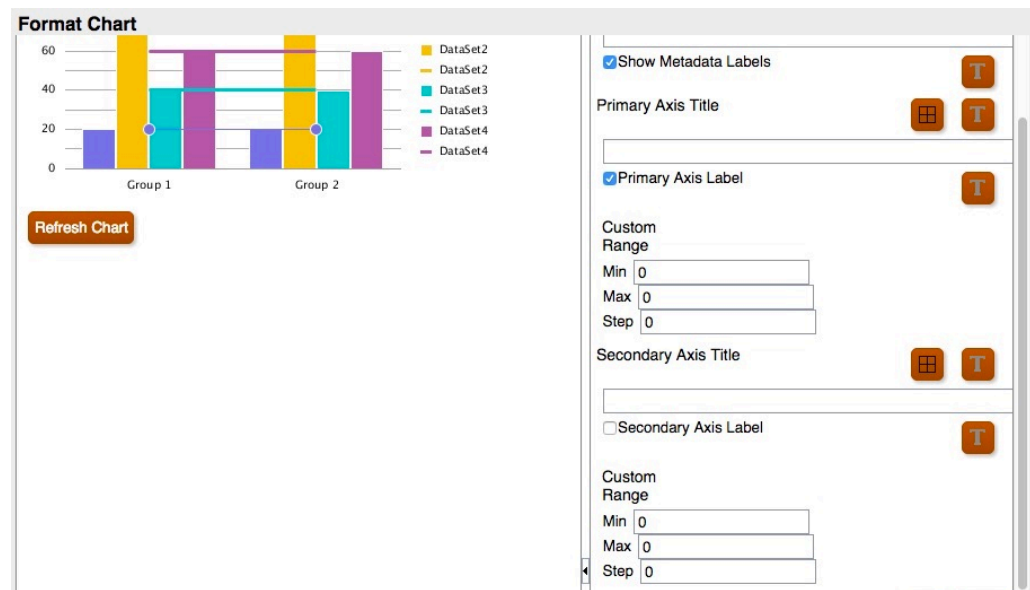


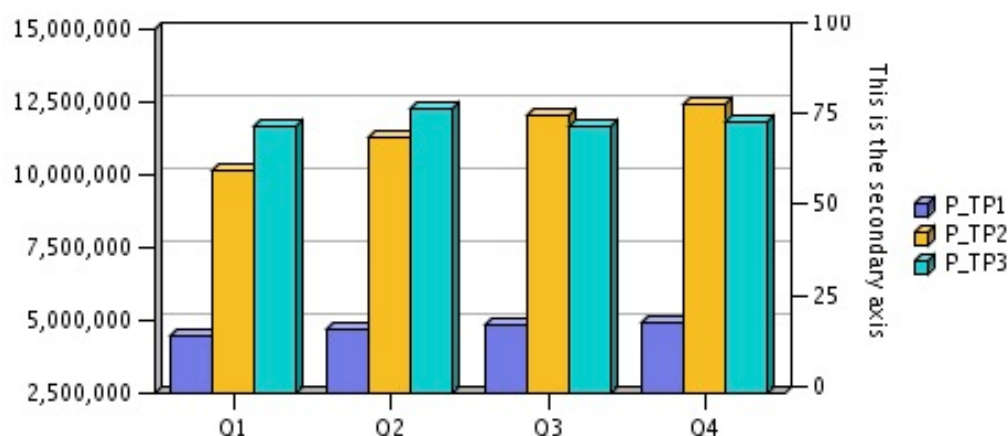
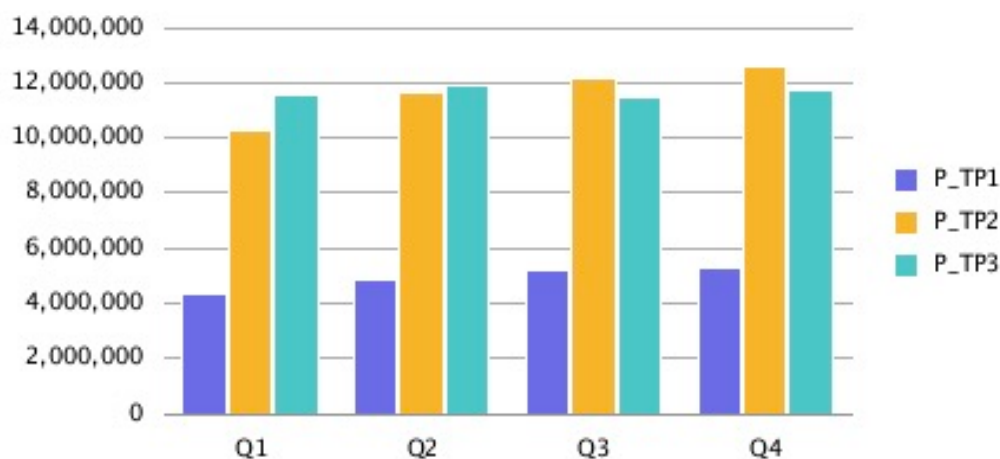
**Figure 6-21 Place Legend = Top****Figure 6-22 Place Legend = Bottom****Figure 6-23 Place Legend = Left**

**Figure 6-24 Place Legend = Right****Axes Tab**

The updated charting engine only displays the secondary axis for Combo charts.

- Secondary axis data is required for the updated charting engine to display it.
- The original charting engine allowed secondary axis for Bar and Line charts.

**Figure 6-25 Axes Tab in the Updated Charting Engine**

**Figure 6-26 Secondary Axis in the Original Charting Engine****Figure 6-27 Secondary Axis in the Updated Charting Engine**

## Element Style Tab

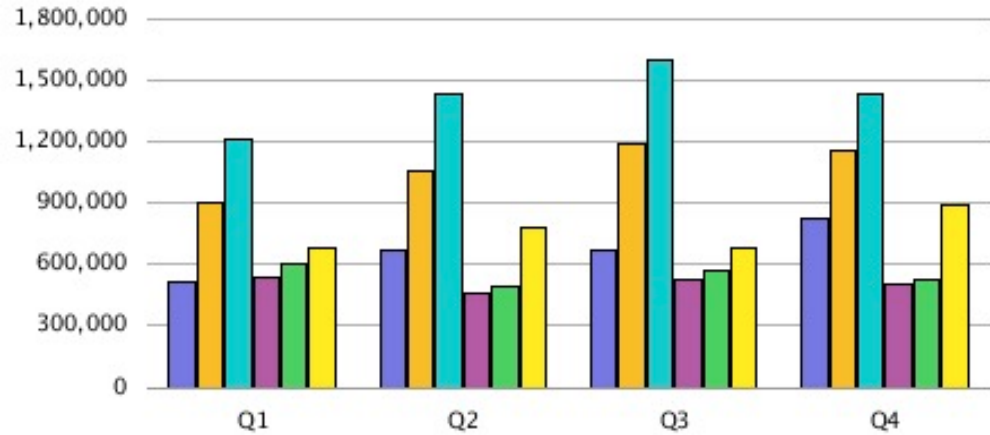
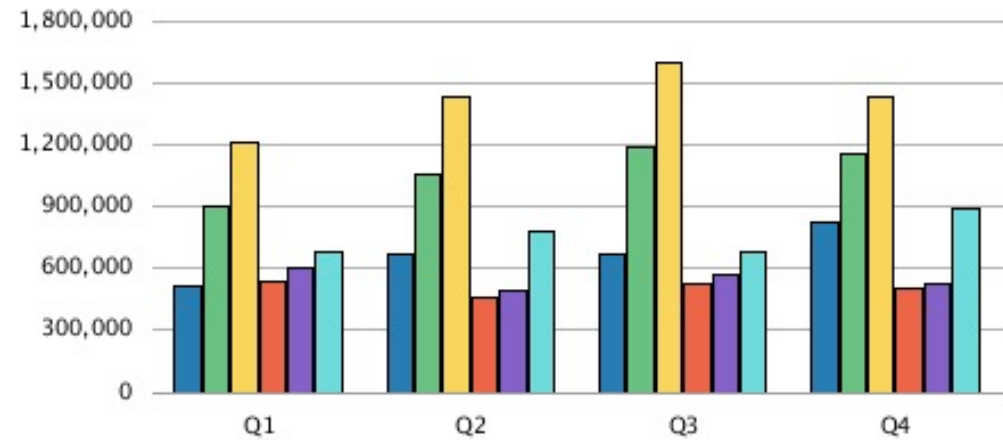
In the updated charting engine, in the Element Style tab in the Format Chart dialog box, each item is broken out into its own separate section.

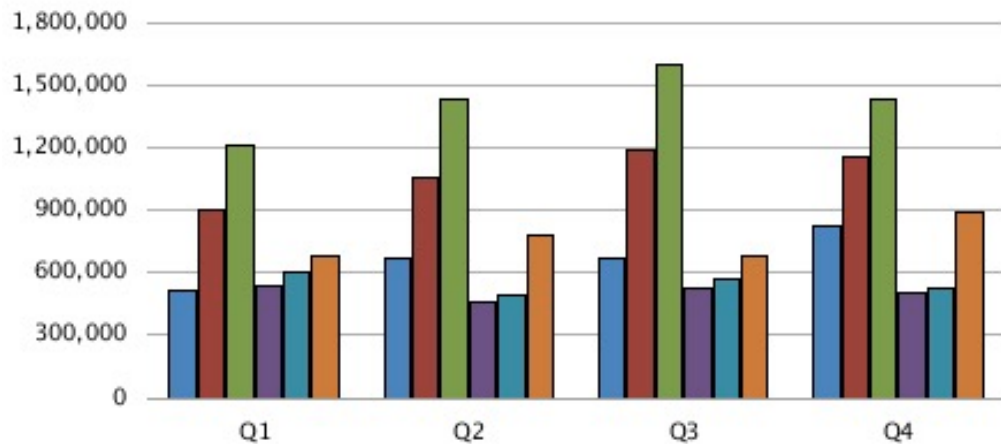
### Themes

Themes are a new feature that you can define in the Element Style tab in the updated charting engine. The following new data element color themes have been added with preset color selection:

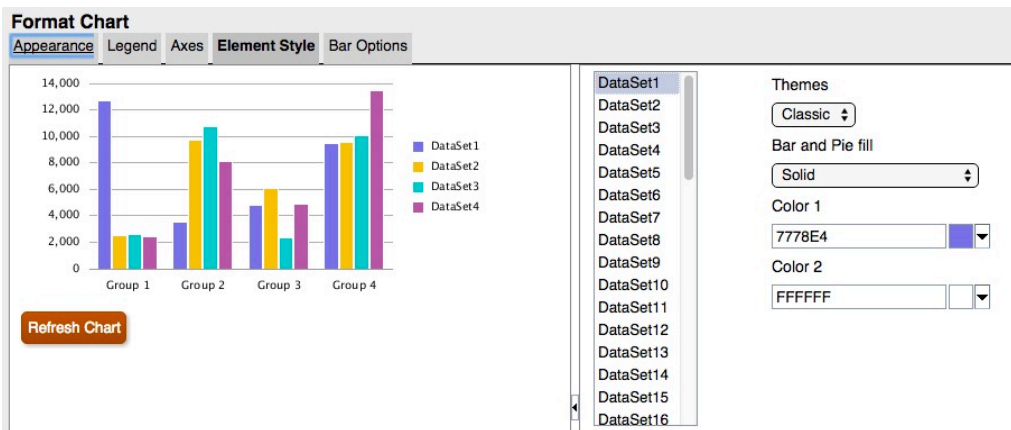
- **Classic**—Legacy Oracle Hyperion Financial Reporting colors
- **BI**—Colors from Oracle Business Intelligence charts, affects the first 12 elements
- **Excel**—Default chart colors from Excel, affects the first 25 elements

Themes are used as a starting point for element colors. You can change the colors for specific elements in the chart.

**Figure 6-28 Themes in the Updated Charting Engine****Figure 6-29 Classic****Figure 6-30 BI**

**Figure 6-31 Excel****Bar and Pie Fill**

Except for the "Solid" selection, Bar and Pie Fill selections in the updated charting engine differ in rendering in the original charting engine. All gradient types in the original charting engine map to the same gradient display in the updated charting engine. Gradient rendering is subtly visible only with wide bars in a bar chart or large pie regions. Color 2 is not used with gradients in the updated charting engine.

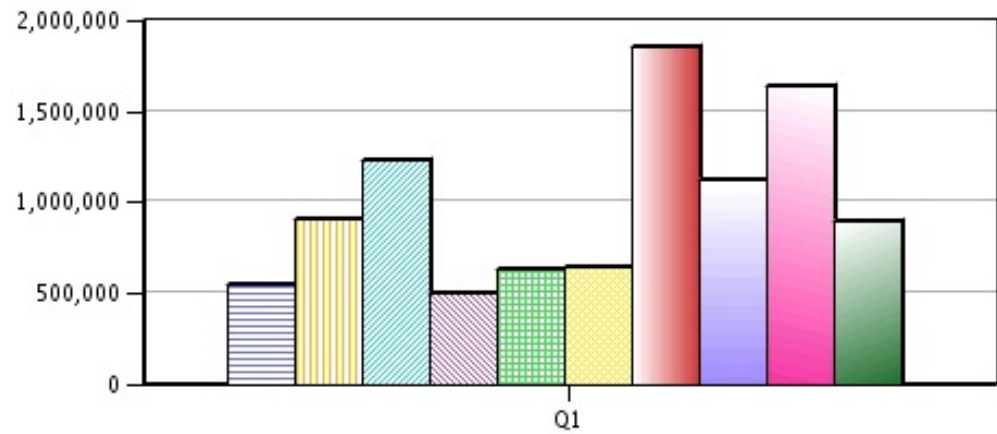
**Figure 6-32 Bar and Pie Fill Options in the Updated Charting Engine**

The following screen shots illustrate the Bar and Pie Fill differences between the original charting engine and the updated charting engine from left to right:

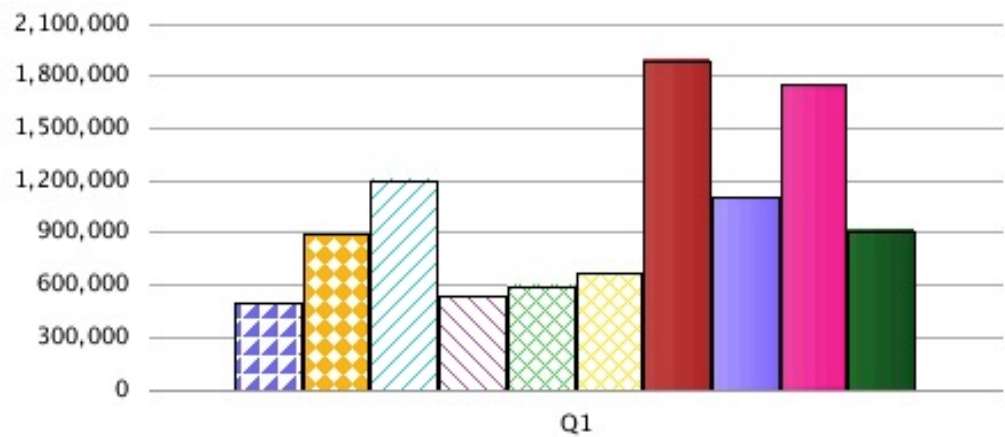
- Horizontal
- Vertical
- Forward Slash
- Backward Slash
- Grid Diagonal Grid
- Horizontal Gradient
- Vertical Gradient

- Forward Diagonal Gradient
- Backward Diagonal Gradient

**Figure 6-33 Bar and Pie Fill in the Original Charting Engine**

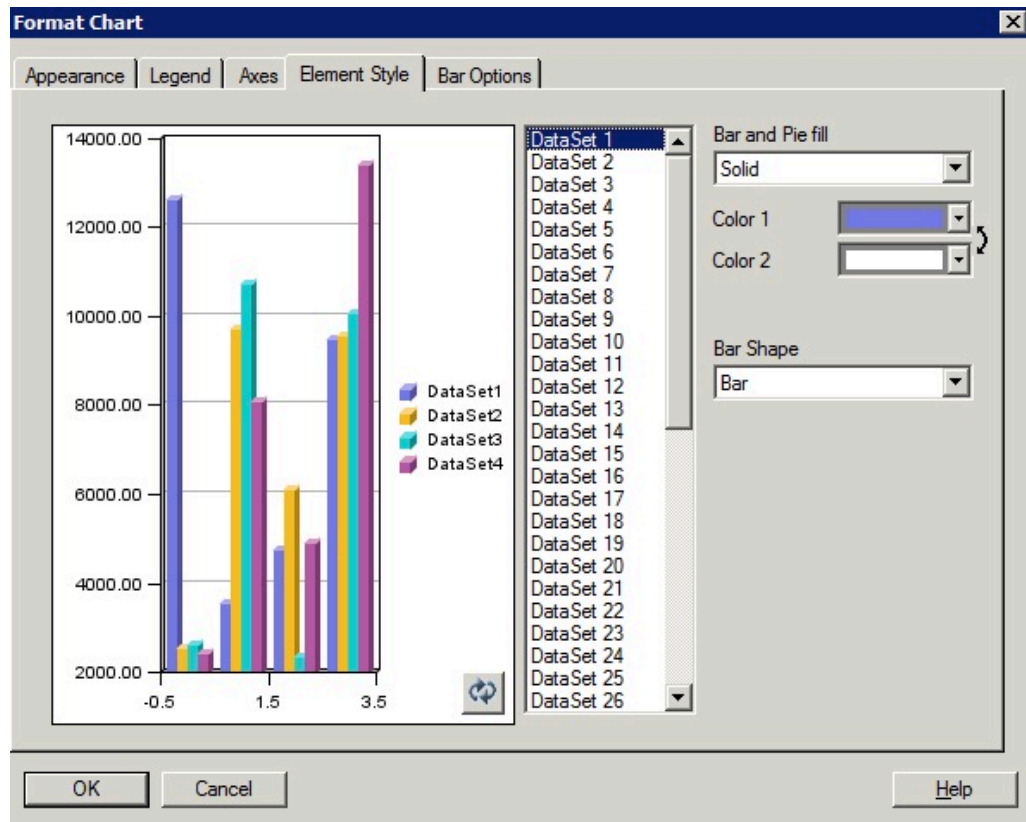
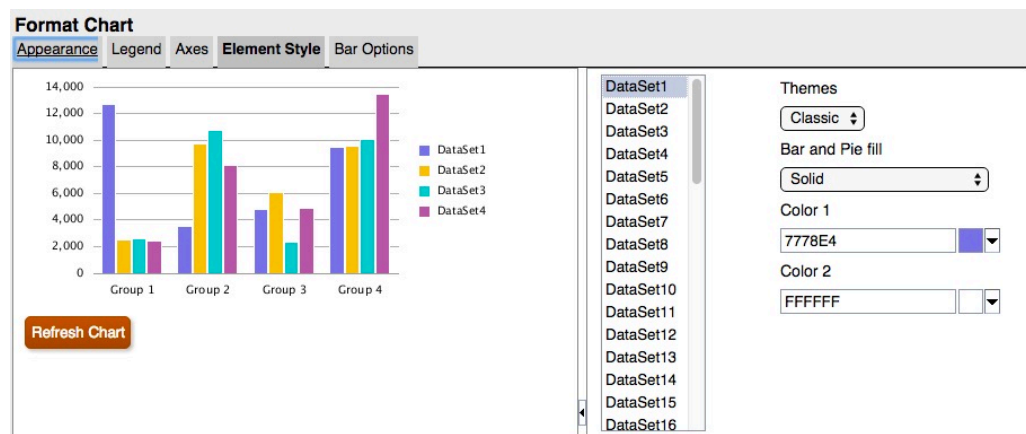


**Figure 6-34 Bar and Pie Fill in the Updated Charting Engine**

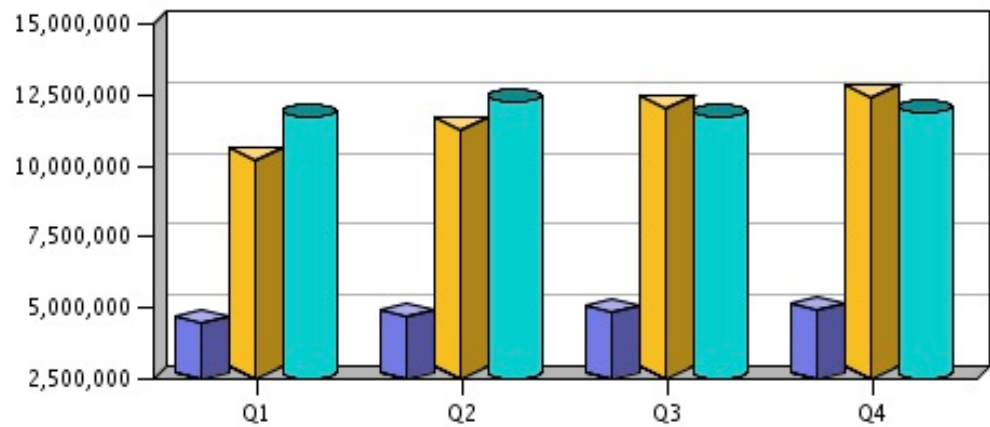
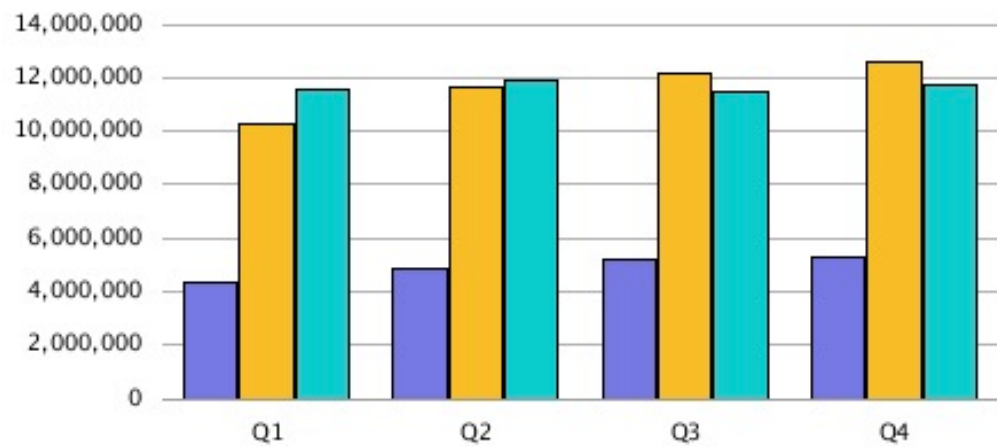


### Bar Shape

Bar shapes (Triangle, Diamond, Cylinder) are not supported in the updated charting engine.

**Figure 6-35 Bar Shape Options in the Original Charting Engine****Figure 6-36 No Bar Shape Options in the Updated Charting Engine**



**Figure 6-37 Bar Shapes in the Rendered Output in the Original Charting Engine****Figure 6-38 No Bar Shapes in the Rendered Output in the Updated Charting Engine**

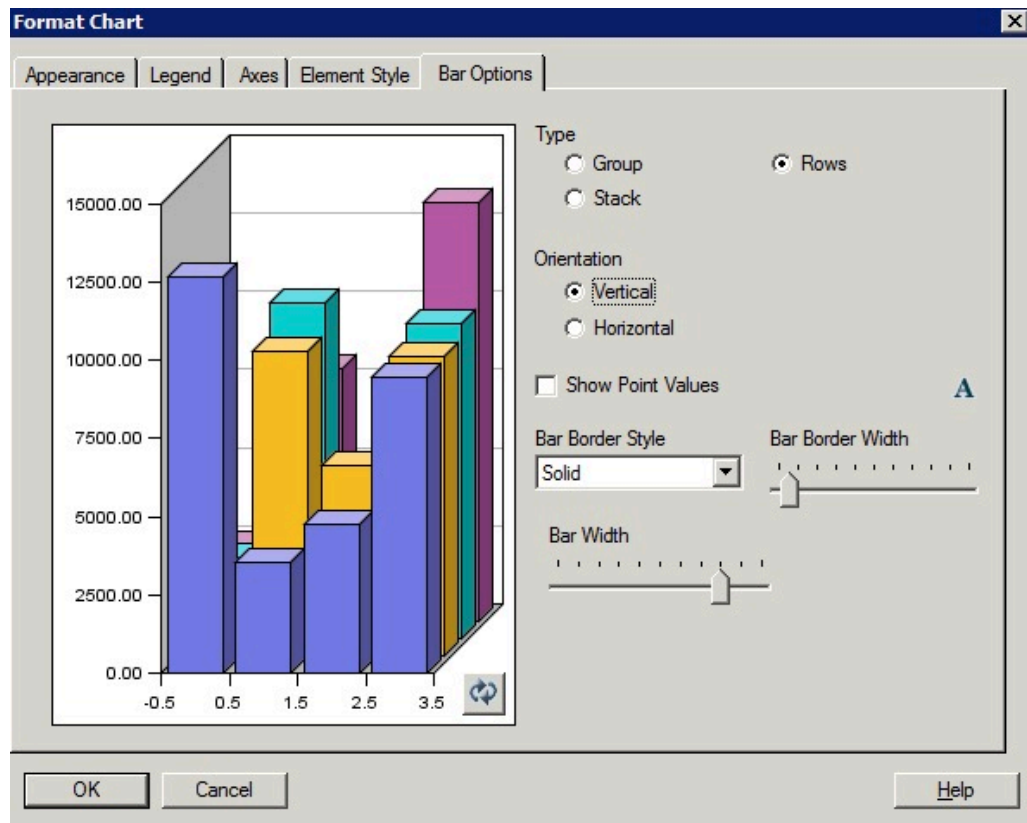
### Bar Options Tab

In the updated charting engine, in the Bar Options tab in the Format Chart dialog box, each item is broken out into its own separate section.

#### Type = Rows

The option of "Rows" as a "Type" in the Bar Options tab is not supported in the updated charting engine, since it is 3D-specific rendering.

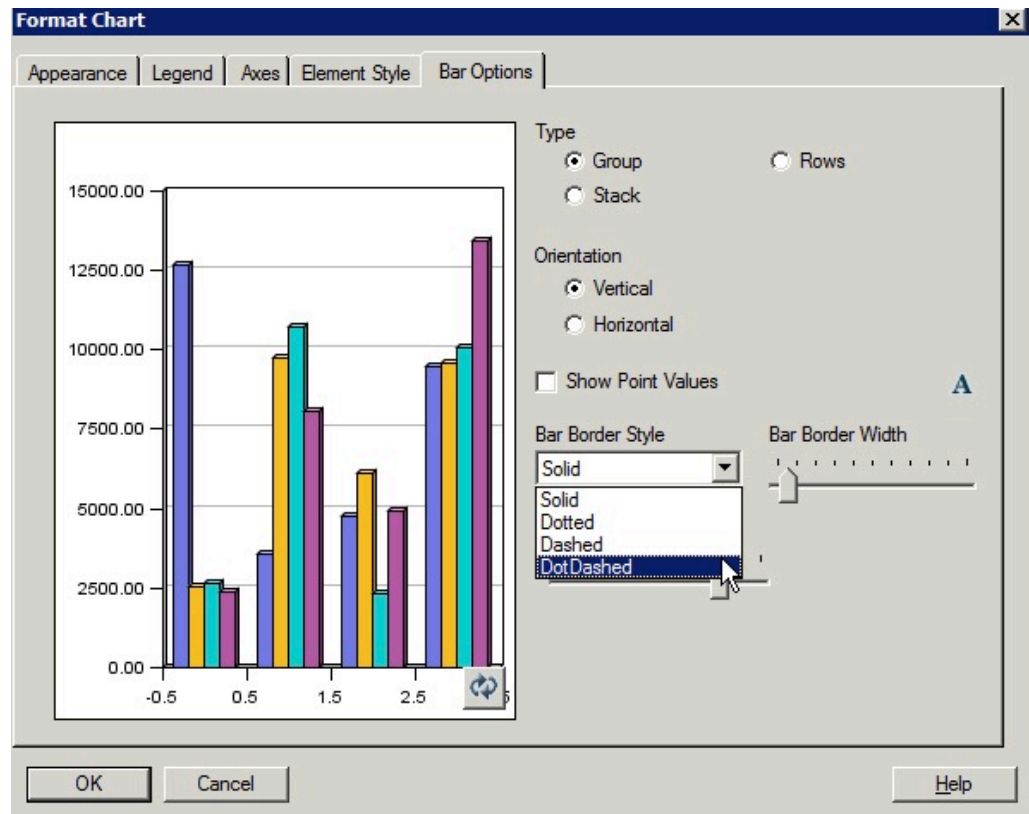
**Figure 6-39 Bar Options Tab in the Original Charting Engine Showing "Rows" as an Option in "Type"**



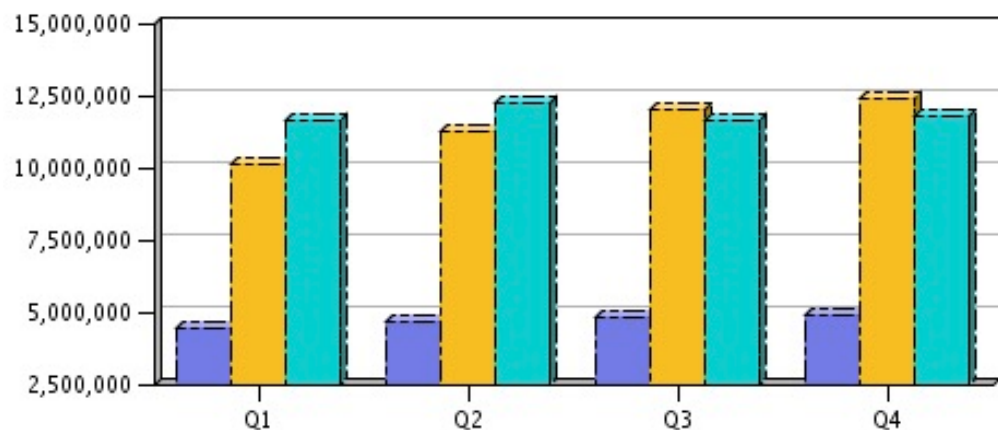
### Bar Border Style

The Bar Border Style of "DotDashed" is not available in the updated charting engine.

**Figure 6-40 Bar Options Tab in the Original Charting Engine Showing "DotDashed" as a "Bar Border Style"**



**Figure 6-41 Dot Dashed as a Bar Border Style in the Rendered Output in the Original Charting Engine**



### Element Style Tab

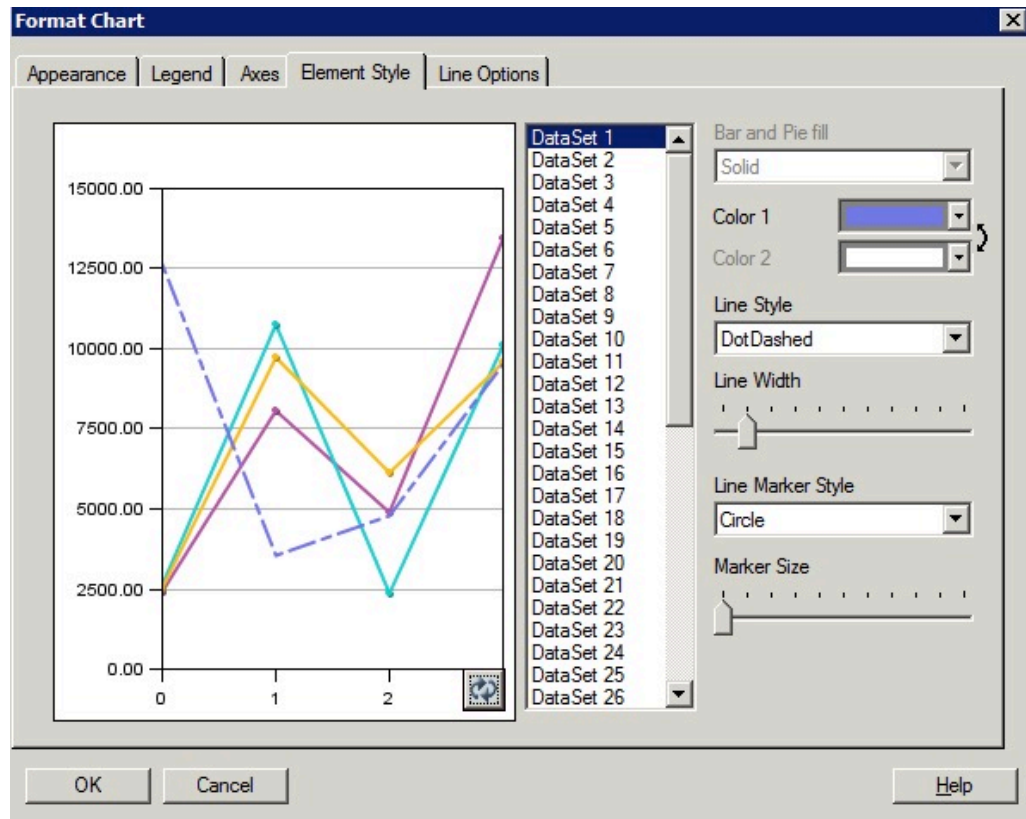
Differences in Element Style tab for Line charts in the Format Chart dialog box include:

- [Dot Dashed as a Line Style](#)
- [Line Marker Styles and Sizing](#)

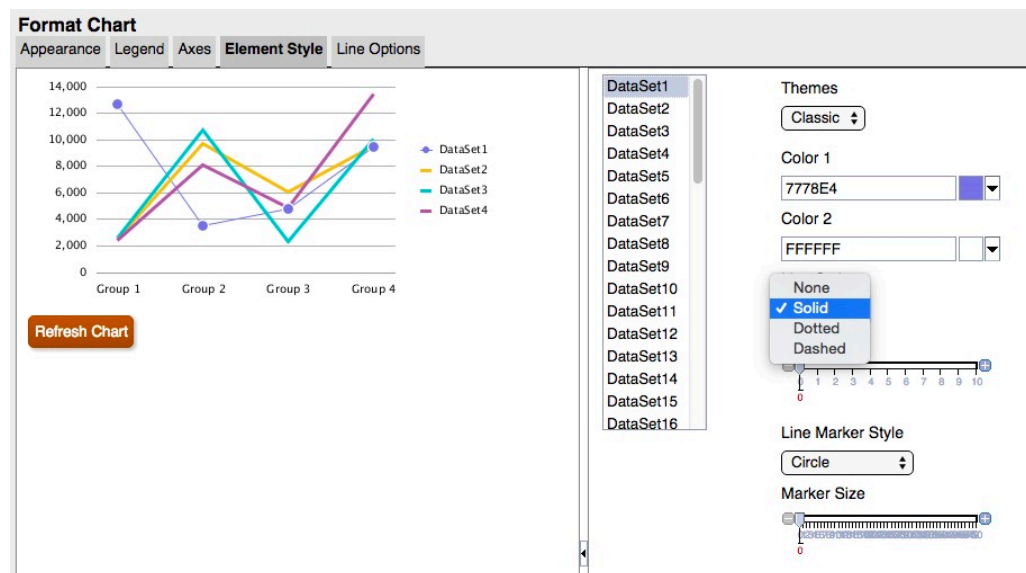
### Dot Dashed as a Line Style

The Line Chart Element Style of "DotDashed" is not available in the updated charting engine.

**Figure 6-42** Element Style Tab in the Original Charting Engine Showing "DotDashed" as a Line Style



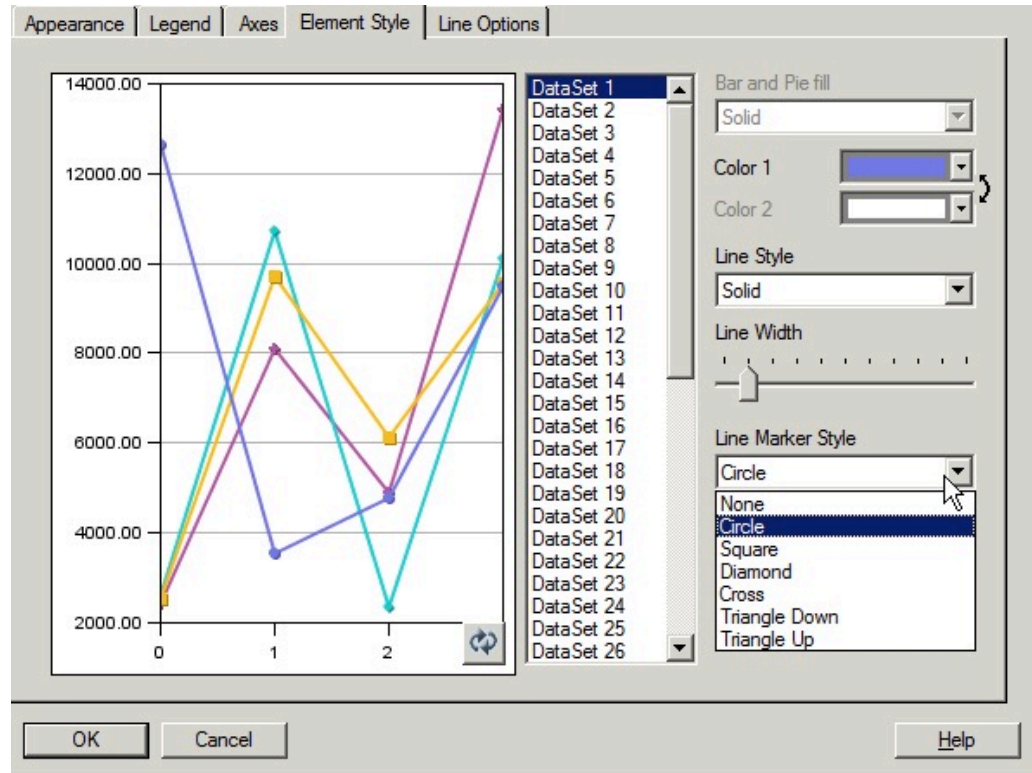
**Figure 6-43** Element Style Tab in the Updated Charting Engine Showing That There is No "DotDashed" Line Style



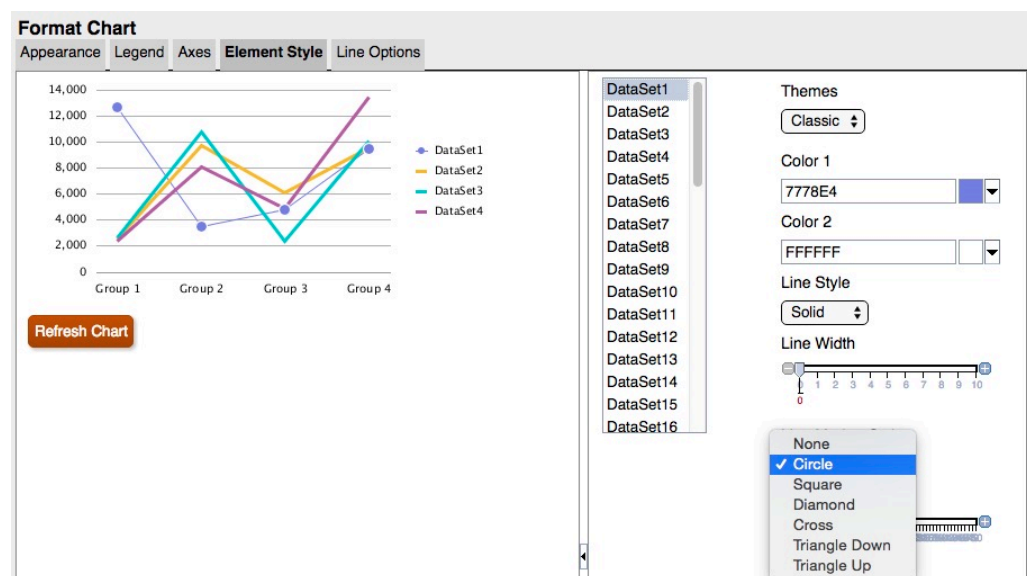
### Line Marker Styles and Sizing

Line Marker styles and sizing differ between the original charting engine and the updated charting engine.

**Figure 6-44** Line Marker Styles in the Original Charting Engine



**Figure 6-45** Line Marker Styles in the Updated Charting Engine



**Figure 6-46** *Line Markers in the Rendered Output in the Original Charting Engine*



**Figure 6-47** *Line Markers in the Rendered Output in the Updated Charting Engine*



## Pie Options Tab

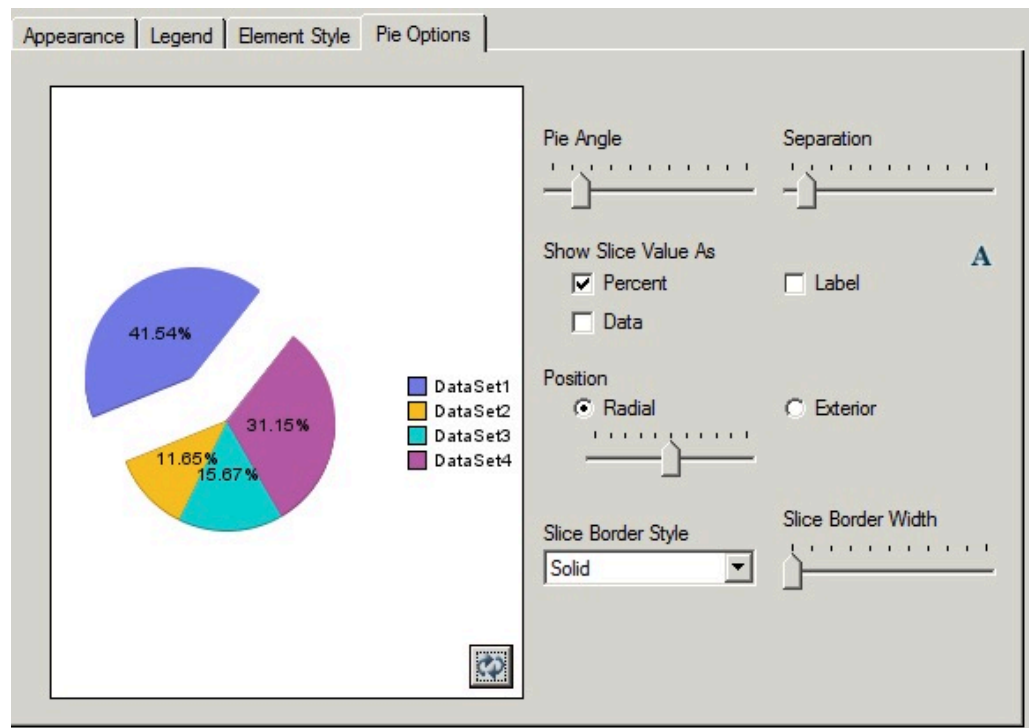
The following are differences in the Pie Options tab in the Format Chart dialog box:

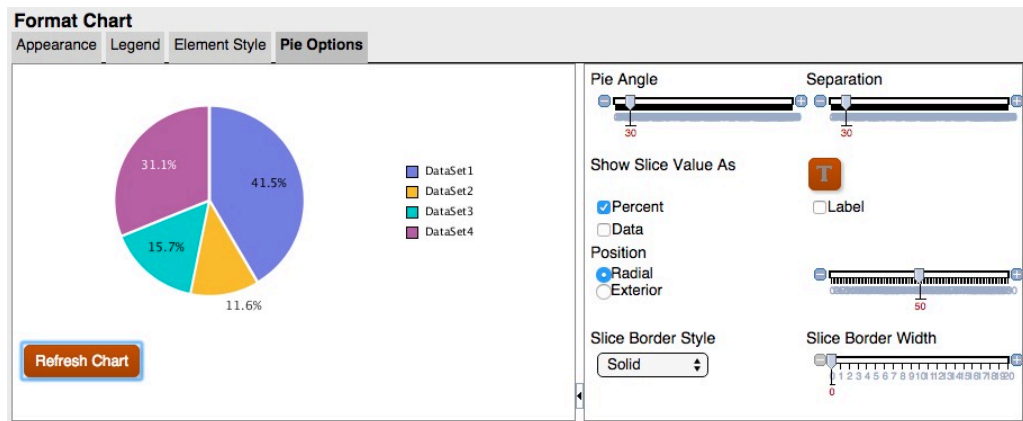
- **Pie Angle and Separation**—Rendering differs between the original charting engine and the updated charting engine.
- **Show Slice Value As**—The original charting engine formats and fits all three labels if all are selected. The updated charting engine does not adjust Pie to fit labels; instead, it will crop labels or not display them if the labels do not fit within the size of the Preview Window or chart output rendering.
- **Position**—In the updated charting engine, "radial" or "exterior" are supported without additional adjustments.

With "radial" positioning, if the label cannot fit within the slice, it will either be placed outside of the slice or not displayed at all.

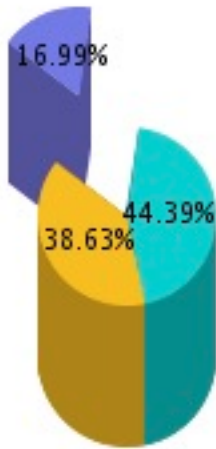
- **Slice Border Style**—Only "solid" is supported in the updated charting engine.

**Figure 6-48** *Pie Options Tab in the Original Charting Engine*



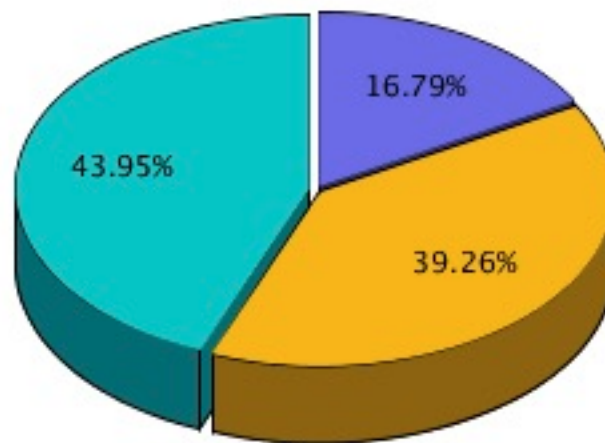
**Figure 6-49 Pie Options Tab in the Updated Charting Engine**

In the updated charting engine, the Grid Depth in the Appearance tab does not adjust the depth of a Pie chart, it only turns 3D on or off. In addition, separation does not affect one slice as it does in the original charting engine. In the updated charting engine, all slices have a smaller and uniform separation.

**Figure 6-50 Depth and Grid Separation in the Original Charting Engine**



**Figure 6-51** *Depth and Grid Separation in the Updated Charting Engine*





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## Defining Members

### Related Topics:

[About Defining Members](#)  
[Assigning Members](#)  
[Searching For Members](#)  
[Sorting Members](#)  
[Previewing Selected Members](#)  
[Copying Members Names From a Text Application](#)  
[Removing Members](#)  
[Selecting Multiple Members](#)  
[Filtering Members](#)  
[Defining and Editing Member Lists](#)  
[Access Privileges for Members in the Planning Database Source](#)

### About Defining Members

When you specify data for a grid, you set criteria that identifies the data to retrieve. You set the criteria by assigning members to the rows, columns, and page axes in the grid, as well as to the grid point of view and user point of view bars.

You can create lists of reusable members, and use functions to retrieve members dynamically. Before you define members, you must insert a grid in the report and define its dimension layout. (See [Working With Grids..](#))

### Assigning Members

You assign members and member lists to retrieve data for your reports. You can select members to be displayed in your report, or you can use functions to select dimension members dynamically. You can insert a separate row or column in a grid for each selected member, or you can place all of the selected members in one row or column.

### Assigning Members to Data Rows or Columns

To assign members to data rows or columns:

1. Open a report and select a grid.
2. Open the **Select Members** dialog box by doing one of the following:

- Double-click a dimension in the grid.
  - Select a dimension in the grid, and then click the button in the formula bar with the dimension name.
3. In the **Select Members** dialog box, select the members, members lists, or functions to assign to the selected data row or column.
  4. **Optional:** To insert a row or column for each selected member, select **Place selections into separate rows (or Columns)**.
  5. Click **OK**.

## Assigning Members to the Page Axis

You can assign members to the page axis of a grid. When you select members for the page axis and run the report, a grid is generated for each page member. If a chart references a grid with multiple page members, a new chart is generated for each page member.

For example, assume that you assign the following members in the Scenario and Entity dimensions to the page axis:

- Target 1 and Target 2 in the Scenario dimension
- Radio Promotions and Web Promotions in the Entity dimension

When you view the report, it is formatted and populated with data from all combinations of members on the page axis. The report contains four grids, one for each page member combination.

In this example, you could select any combination of the members:

- Target 1: Radio Promotions
- Target 1: Web Promotions
- Target 2: Radio Promotions
- Target 2: Web Promotions

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**Note:**

In Oracle Hyperion Financial Reporting, all the members and corresponding data in the page axis are retrieved when the report is run. As a result, performance may be impacted for reports with a large number of members on the page axis.


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To assign members to the page axis:

1. Open a report and select a grid.
2. In the **Pages** drop-down list, select a dimension.
3. On the formula bar, select the button with the dimension name.

If you know the member names for a dimension, enter the member name into the formula bar text area. For example, for a "Measures" dimension, you could enter

"Profit, Sales". Click  to verify the member selection.

4. In the **Select Members** dialog box, select the members to use on the page axis, and then click **OK**.

## Defining Special Types of Members

You can use the Select Members dialog box to select the following types of members:


- **Prompt**—Acts like a variable that asks you to select members when you run a report. You determine the dimension and defaults at design time, and you select the members when you generate the report. Prompt also enables the report writer to filter the dimension members that are available to select when running the report.
- **Same As**—Creates a column or row member selection with the same member selection setting as another column or row.
- **Current Point of View**—Acts as a variable that employs the point of view to specify the member of a dimension when the report is run.
- **User Point of View**—Can be selected as a member in the book point of view. The parameters can be modified by the end user.

### Setting Up Report Prompts

A prompt is a way of assigning members to a dimension. The prompt is set up during design time. As a report designer, you can limit the type of data to assign to a dimension. You can also specify whether the Respond to Prompts dialog box displays member names, descriptions or aliases, or both member names and descriptions or aliases.

For example, you could create a report that enables the user to select from lines of products. The report designer selects Prompt as a member of Product, and then selects specific product lines. The person who runs the report then selects from those product lines.

To set up a report prompt for members:


1. Open a report and select a grid.
2. Double-click the dimension cell for which you want to assign a prompt.
3. In the **Select Members** dialog box, on the **Members** tab, select **Prompt for** *<dimension name>*, and then click  to select it.
4. Click **OK**.
5. In the **Define Prompts** dialog box, enter the following information:
  - **Title**—Enter the title for the prompt.  
For example, for a "Measures" dimension, you could say "Enter Measures".

- **Default Member**—Enter the member to use as the default member, or click



to select the default member. If you specify multiple members as the default, separate the members by commas.

If you leave **Default Member** blank, the **Respond to Prompts** dialog box does not display a default member when you run the report or create a batch.

- **Choices List**—Click  to select the member or members available as choices when responding to the prompt. If you specify multiple members in the choices list, separate the members by commas.
- Select which labels to display in the **Respond to Prompts** dialog box when you run the report (**Member Name**, **Alias**, or **Member Name and Alias**).

6. Click **OK**.


### Setting Up Same As References

Using a Same As reference, you can select a member from another row or column. The following characteristics apply to a Same As reference:

- In a report, members referred to by Same As are always from the same dimension, type of database connection, and grid.
- Members referred to by Same As are only available for member selection in rows and columns in a grid. Same As cannot be used as member selection in:
  - Page Axis
  - Grid POV
  - User POV
  - Book POV
  - Batches POV
  - Default member selection for a prompt
  - Response to a prompt
  - Member function member parameter, such as range
  - Member selection in the book editor
- Same As can reference a row or column that gets its member selection from a prompt or Current POV.
- Same As cannot reference another Same As reference.
- Same As is not supported within row and column templates.
- Same As must be used alone and cannot be combined with any other member selections.

To set up a Same As reference:


1. Open a report and select a grid.

2. Double-click a dimension cell.
3. In the **Select Members** dialog box, on the **Members** tab, expand **Same As Member Selection in**, then select **Same As Column Name or Row Name**, and then click  to add the column or row to the area selected in the grid.
4. Click **OK**.

### Setting Up a Current Point of View

A current point of view enables you to obtain a member for a row, column, or page from the user point of view.


To set up a current point of view:

1. Open a report and select a grid.
2. Double-click the dimension cell for which you want to set up a current point of view.
3. In the **Select Members** dialog box, on the **Members** tab, select **Current Point of View for <dimension name>**, and then click  to select it.
4. Click **OK**.



## Assigning Members Using Functions

You can use functions to select members dynamically. After you select a function, you can edit its parameters.

To assign members using functions:

1. Open a report and select a grid.
2. Double-click a dimension cell.
3. In the **Select Members** dialog box, select the **Functions** tab.
4. Highlight one or more functions, and then click .

You cannot select functions that do not require parameter values, such as `BottomofHierarchy`, `TopofHierarchy`, `AllMembers`, and `SuppressSharedMembers`.

5. Select a function, and then click .
6. Click , and then select the members to add to the function.

### Functions Available Through Member Selection and the Formula Bar

The functions listed in [Table 1](#) can be selected from the **Functions** tab in the **Select Member** dialog box, and they can be entered dynamically in the formula bar.

**Table 7-1 Functions Available Through Member Selection and the Formula Bar**

Function	Parameters Needed	Description
AllMembers	All Members in Hierarchy <i>dimension</i>	Members of the specified dimension
Ancestors	Ancestors of <i>member</i> (Inclusive)	Members at all levels above the specified member
Base	Base members of Hierarchy <i>dimension</i>	The base or level 0 members of a hierarchy. Base Member function is only available for Oracle Hyperion Financial Management, and is not supported for Oracle Essbase and Oracle Hyperion Planning. For Essbase and Planning, use BottomOfHierarchy AND Descendants functions.
BottomOfHierarchy	Bottom of Hierarchy <i>dimension</i>	All Level 0 members
TopOfHierarchy	Top of Hierarchy <i>dimension</i>	Top-level member of hierarchy
Children	Children of <i>member</i> (Inclusive)	Members one level below the specified parent
Descendants	Descendants of <i>member</i> (Inclusive)	Members at all levels below the specified parent
Parent	Parent of <i>member</i> (Inclusive)	Member one level above the specified member
Siblings	Siblings of <i>member</i> (Inclusive)	Members with the same parent as the specified member
Member	<i>member</i>	The specified member
Members	N/A	Members of the current dimension
OfSameGeneration	Same generation as <i>member</i>	Members of the same dimension and generation as the specified member
OnSameLevelAs	Same level as <i>member</i>	Members from the same dimension and on the same level as the specified member <b>Note:</b> In Planning, OnSameLevelAs only works with level 0 members.
SameLevelAs	N/A	Members of the same level
SystemMemberList	System-defined Member List <i>Lev(n),dimension</i>	Members in a specified system-defined member list
UserDefined1	All members where user defined is <i>selected attribute</i>	Financial Management only. All entities and custom dimensions can be used with the following exceptions: View, ICP, Year, Period, Scenario. The members of selected attribute
UserDefined2	All members where user defined is <i>selected attribute</i>	Financial Management only. All entities and custom dimensions can be used with the following exceptions: View, ICP, Year, Period, Scenario. The members of selected attribute
UserDefined3	All members where user defined is <i>selected attribute</i>	Financial Management only. All entities and custom dimensions can be used with the following exceptions: View, ICP, Year, Period, Scenario. The members of selected attribute



## Functions Available Only Through Member Selection

The functions listed in [Table 1](#) can be selected from the **Functions** tab in the **Select Member** dialog box. They cannot be entered dynamically in the formula bar.

**Table 7-2 Functions Available Only Through Member Selection**

Function	Description
CommonChildren	<p>Oracle Hyperion Financial Management only. This function is valid for the common members in the Entity dimension only. For example, with the following structure:</p> <pre> Parent1 ├── ChildA ├── ChildB └── ChildC  Parent2 ├── ChildA ├── ChildB └── ChildD </pre>

The common children function replaces the Member with the Parent. In this example, the Member is Parent1 and the Parent is Parent2. Therefore, the result of using the CommonChildren function in this example would be the following output:

Parent2.ChildA

Parent2.ChildB

Parent2.ChildC

This is the children of Parent1 with Parent2 now substituted as the parent. In this example, since ChildA and ChildB are children of Parent2 the result for these two would be valid. However, the result for Parent2.ChildC is not really valid and would return nothing.

**Table 7-2 (Cont.) Functions Available Only Through Member Selection**

Function	Description
DynamicMemberList	Financial Management database connection only. This function enables you to select a member list that is defined to support dynamic POV on the Entity dimension. DynamicMemberList is based on a POV, and takes Entity and Parent (optional) as parameters. If the Parent parameter is specified, the Parent name is used for all entities returned from the enumeration of the list. If the Parent parameter is not specified, then no substitution is done.
<b>Note:</b> The enhanced Financial Management DynamicMemberList functionality is not available in Oracle Hyperion Financial Reporting.	
Entity is based on the Scenario, Year, and Period defined at the POV level. Therefore, the system will not use Scenario, Year, and Period on the grid. If you place Scenario, Year, or Period on the grid, the following message is displayed: "5200: Error executing query: Scenario, year, and period must be specified on the point of view for a dynamic member list."	
<b>Note:</b> The DynamicMemberList can be executed from the Lists tab or Functions tab. On the Lists tab, you begin by selecting a (dynamic) list, then adding the Entity and Parent parameters. On the Functions tab, you begin by selecting the DynamicMemberList function, then selecting a dynamic list (DynamicNamedGroup), Entity, and Parent.	

**Table 7-2 (Cont.) Functions Available Only Through Member Selection**

Function	Description
DynamicTimeSeriesMembers	<p>The following Dynamic Time Series members can be defined within Oracle Essbase. Only Dynamic Time Series members that are defined in the Essbase database are displayed in the Functions tab of the Select Members dialog box in Financial Reporting.</p> <ul style="list-style-type: none"> <li>• H-T-D History-to-date</li> <li>• Y-T-D Year-to-date</li> <li>• S-T-D Season-to-date</li> <li>• P-T-D Period-to-date</li> <li>• Q-T-D Quarter-to-date</li> <li>• M-T-D Month-to-date</li> <li>• W-T-D Week-to-date</li> <li>• D-T-D Day-to-date</li> </ul> <p>These members provide up to eight levels of period-to-date reporting. How many members you use, and which members, depends on your data and database outline.</p> <hr/> <p><b>Note:</b> These members are used only with time-based dimensions and the lowest-level data. You can view H-T-D, Q-T-D, and M-T-D Dynamic Time Series members on the Functions tab if you select the Year dimension for the Sample application and Basic database.</p> <hr/> <p>For more information on Dynamic Time Series members, see the <i>Oracle Essbase Database Administrator's Guide</i>, Volume 1.</p>
Match	<p>Extracts members that match a specified pattern or set of characters.</p> <hr/> <p><b>Note:</b> When using the asterisk (*) wildcard, the pattern can contain only one asterisk and it can only appear as the last character.</p> <hr/>
MatchEx	<p>Essbase only. Performs wildcard member selection. Essbase searches for member names that match the pattern you specify, and returns the member names it finds.</p> <hr/> <p><b>Note:</b> See "MATCHEX" in the <i>Oracle Essbase Technical Reference</i> for detailed information on this function. Financial Reporting only allows matching on the ALT   MBR   BOTH option.</p> <hr/>

**Table 7-2 (Cont.) Functions Available Only Through Member Selection**

Function	Description
PeriodOffset	<p>Financial Management database connection only. This function enables you to perform arithmetic offset on only the Period dimension.</p> <hr/> <p><b>Note:</b> Arithmetic offset is the distance to move forward or backward from a specified level.</p> <hr/> <p>For example, to list this data: <b>Current Qtr Next Month</b> you set the parameters as follows: Member = Current POV Offset = +1 Hierarchy = Dim</p> <hr/> <p><b>Note:</b> PeriodOffset always spans the period and year combination. Therefore, if you select Jan offset -2 (assuming the year is 2002), the answer (member shown) would be Nov 2001.</p> <hr/>
Property	Extracts members with the specified property value.
RelativeMember	<p>Perform arithmetic offset. Arithmetic offset is the distance to move forward or backward on a specified level. For example, using this data: <b>Current Qtr Next Month</b> You could set the parameters as follows:</p> <pre>Member = Current Point Of View Offset = 1 Hierarchy = Year RelativeMemberList = Lev0, Year UseFirstDescendant = checked</pre> <p>In this example, UseFirstDescendant = checked starts from the first descendant of Qtr1, which is Jan. The offset is +1, which makes the Next Month = Feb.</p> <hr/> <p><b>Note:</b> When using a time dimension, keep the offset in the same calendar year as the specified level. For example, if you start with June, you can offset back to January or forward to December.</p> <hr/>

**Table 7-2 (Cont.) Functions Available Only Through Member Selection**

Function	Description
Substitution Variables	<p>Stored in a directory for the selected dimension in the Select Members dialog box, substitution variables serve as placeholders for information that changes regularly. A variable value can be changed at any time by the Essbase administrator. These are useful for reports that depend on reporting periods. With a substitution variable, such as CurMnth, set on the server, you can change the assigned value each month to the time period.</p> <hr/> <p><b>Note:</b> The list of available Essbase substitution variables displayed in the Member Selection dialog is obtained when you start the Financial Reporting Report Client. If you add a new substitution variable using the Essbase Application Manager, you must restart the Report Client to see the addition. Anytime you run a report, the latest values for all Essbase substitution variables are used. You can view a CurrMonth substitution variable member on the Members tab if you select the Year dimension for the Sample application and Basic database. A substitution variable is preceded by a green square.</p> <hr/> <p>For more information on substitution variables, see the <i>Oracle Essbase Database Administrator's Guide</i> Volume 1.</p>
SuppressSharedMember	<p>For Essbase and Oracle Hyperion Planning only, suppress the display of duplicate members. This function is only valid with the following functions: DIMBOTTOM, OFSAMEGEN, or ONSAMELEVELAS.</p> <hr/> <p><b>Note:</b> Use UNION and not AND to work correctly.</p> <hr/>

**Table 7-2 (Cont.) Functions Available Only Through Member Selection**

Function	Description
Range	<p>For Essbase, and Planning database connections, you can specify a range of members by selecting a start member and an end member of the range. For example, you can use the Year dimension to specify all months in the first quarter by selecting January as the start member of the range and March as the end member.</p> <p>For Financial Management, the Range function applies only to the Period dimension. For example, to list this data:</p> <p><b>Beginning Period Ending Period</b></p> <p>for a range of members in the current quarter, you set the parameters as follows:</p> <p>Start Member = July</p> <p>End Member = September</p> <p>Years to Iterate Over = 0</p> <p>The number of iterations you specify determines the number of times you pass through the Period dimension. For example, if you specify 1 for the Years to Iterate Over parameter, the report spans July to September of the following year.</p> <hr/> <p><b>Note:</b></p> <p>Do not use a Prompt and a Range function in the same grid when the Range function also includes Prompts.</p> <hr/>
SortHierarchy	For Oracle Hyperion Web Analysis only, sort members in outline order, by hierarchy. It is translated into Essbase report script command <sortHierarchy. See Essbase documentation for details.
UserMemberList	Essbase only. The members in a specified user-defined member list.

## Searching For Members

You can perform searches for members to edit. You can search using a text string or by property (that is, name and description). You can also use a blank space as a separator to perform simultaneous searches. If you enclose a string of characters in quotation marks, the system searches for an exact match, including the blank spaces between the characters.


---

**Note:**

For Oracle Hyperion Financial Management, when you search for an entity, you must search on parent.entity (for example, D62VIELO.D62475LO). When you search just the entity, you must precede the entity with a wildcard, (for example, \*D62475LO).

---

To search for a member:

1. Open a report and select a grid.
2. Double-click a dimension cell.
3. In the **Select Members** dialog box, next to **Find**, click the drop-down to select an option, and then enter the text for which to you want to search.
4. Click .

**Tip:**

**Use Wildcards** is automatically enabled during member selection. When using wildcards, use ? to represent a single character search, and use \* for a multiple character search.

If the search criteria has a space in it, enclose the search phrase in double quotes. For example, \*IC Offset\* should be "\*IC Offset\*".

## Sorting Members

You can sort members within member selection. By default, the members are displayed in the sort order of the database connection.


You can sort selectable members in a preferred order, and you can sort the members that are selected to match the row or column order of data in your report. The order in which selected items are displayed in member selection is the order in which they are evaluated and displayed in the report.

You sort the members by property and display them in ascending or descending order. By default, the system sorts the list numerically, then alphabetically.

You can enable the system to sort the list whenever the view changes, or you can sort the list manually.

To enable the system to sort the list whenever the view changes:

To sort members manually:


1. Open a report and select a grid.
2. Double-click a dimension cell.
3. In the **Select Members** dialog box, select the **Lists** tab.
4. In the **Lists** tab, click **View**, and then select **Sort**.
5. In **Sort (dimension) Items**, select the property for the primary sort, then click .
6. Click **OK** twice.

## Previewing Selected Members

You can preview the members or member lists selected for your report before you run it. The members that you view result from an evaluated member list or function.

To preview members:

1. Open a report and select a grid.


2. Double-click a dimension cell.
3. In the **Select Members** dialog box, in the **Selected** area, click .

## Copying Members Names From a Text Application

You can copy members names from a text application, such as an Excel spreadsheet, and paste them as new members in the corresponding dimension in Oracle Hyperion Financial Reporting Web Studio.

For example, you could copy the members names in the "Year" dimension in an Excel spreadsheet to a grid in Financial Reporting Web Studio that contains the "Year" dimension.


To copy members names from an application to Financial Reporting Web Studio:

1. Open the source application and select the members to copy.
2. In Financial Reporting Web Studio, open a report and select a grid.
3. Select the dimension cell to which you want to copy members.
4. In the formula bar, clear the content, then right-click, and then select **Paste**.
5. Edit the text in the formula bar by adding commas between members.
6. Click  to verify the member names.

## Removing Members

You can remove members from a dimension. Removing members changes the output of a report, giving you more control over its content.

To remove members that are contained in a single cell:

1. Select the cell containing the members.
2. Do one of the following:
  - Double-click the dimension name to display the **Select Members** dialog box, and then click  to remove the member from the Selected area of the dialog box.
  - Select the dimension in the grid, and then remove the member from the formula bar.

To remove members that are in separate rows or columns:

1. Right-click the row or column.
2. Select **Delete**.


## Selecting Multiple Members

You can select members dynamically based on criteria that you specify. You define criteria by creating expressions of members, boolean operations, and commands.



Boolean operators enable you to specify precise member combinations for the report, which is useful for dealing with large volumes of data. Use the AND, OR, UNION, and NOT boolean operators, combined with expression commands, to refine your member selections.

To select multiple members based on criteria:

1. Open a report and select a grid.
2. Double-click a dimension cell.
3. In the **Select Members** dialog box, in the **Members** tab, select at least two members, and then click .

You must select at least two members before you can create criteria.

4. In the **Selected** area of the dialog box, build expressions by using one or more of the following operators and symbols:
  - Select **Not** to add the Boolean operator NOT to the expression. NOT is the inverse of the selected condition.
  - Enter a left parenthesis, (, to add an opening character to the expression.
  - Enter a right parenthesis, ), to add a closing character to the expression.
  - In the **Operator** column, select **And**, **Or**, or **Union**.

**Tip:**


If you are using three members, use two pairs of parentheses. For example, if you select descendants of Market and you want to exclude East, West, and South, your advanced member selection query should be as follows:

```
Descendants of Market AND NOT (East AND NOT (West AND NOT SOUTH) )
```

## Filtering Members

You define filters to view only members that meet your criteria. You can then select from the filtered list for your report. For example, you can display Regions in the United States division only. Filters are useful for reducing the number of members that are displayed.

To define filters:

1. Open a report and select a grid.
2. Double-click a dimension cell.
3. In the **Select Members** dialog box, in the **Members** tab, right-click inside the **Available** area and make one of the following selections:
  - Select **Filter**, and then **Custom**, highlight the lists of available functions, then click the **Add** button, , to move them to the **Selected** area.
  - Select **Filter**, and then **Predefined**, then highlight the desired list.

4. Click **OK**.
5. Click **OK** to return to your report.

## Defining and Editing Member Lists

Member lists are user-defined saved queries or system-defined lists of members. System-defined lists are typically created by the database administrator. Member lists can include members, other member lists, and functions.

---


**Note:**

User-defined lists can be created only with Oracle Essbase as a database connection. The size of a member list cannot exceed 4K.

---

### Defining Member Lists

To define a member list:

1. Open a report and select a grid.
2. Double-click a dimension cell.
3. In the **Select Members** dialog box, do one of the following:
  - In the **Members** tab, highlight the members to include in the member list, then right-click inside the **Available** area, and then click **Save Highlighted**.
  - In the **Lists** tab, right-click inside the **Available** area, and then click **Create**.
4. From the **Available** area of the **Create (dimension) List** dialog box, select the members, member lists, and functions to include in the member list and move them to the **Selected** area using the **Add** button, , or **Add Relationship** button.
5. Click **OK**.
6. Enter a name and description for the member list, then click **OK**.
7. Click **OK** to return to your report.

---

**Note:**

Do not use quotation marks ( " ) when entering a member list. If you do, Oracle Hyperion Financial Reporting Web Studio saves the name with the quotation marks, but you cannot select the name later.

---

### Editing Member Lists

To edit a member list:

1. Open a report and select a grid.
2. Double-click a dimension cell.

3. In the **Select Members** dialog box, select the **Lists** tab.
4. Double-click a member list.
5. In the **Edit...List** dialog box, add and remove members as desired, and then click **OK**.

## Access Privileges for Members in the Planning Database Source

Oracle Hyperion Financial Reporting Web Studio gives you access privileges on members in the following dimensions:

- Accounts
- Entities
- Scenarios
- Versions

In the **Select Member** dialog box, all members for the Oracle Hyperion Planning database connection are listed regardless of access privileges. Therefore, you can place members on a grid that are not returned when the report is run. The members you choose affect the output of the report. For example, if you select a member to which the user cannot access in the Point of View or Page Axis, an error message is returned.

The following four scenarios describe what values are returned on a grid that contains valid and invalid dimensions or members. These scenarios assume that you are reporting against a Planning database connection and have access privileges to the following dimensions and members:

- Accounts: Sales, Profit
- Versions: 1st Draft, 3rd Draft, Final Version
- Entities: North, Canada
- Scenarios: Budget

### Scenario 1

You run a report based on the following grid:

**Page: Budget**

	1st Draft	2nd Draft	3rd Draft
North	###	###	###
Central	###	###	###
South	###	###	###

Because you do not have access to Central, South, and 2nd Draft, the report returns the following results:

**Page: Budget**

	1st Draft	3rd Draft
North	23.89	12.90

**Scenario 2**

You run a report based on the following grid:

**Page: Actual**

	1st Draft	2nd Draft	3rd Draft
North	###	###	###
Central	###	###	###
South	###	###	###

Because you do not have access to the Scenario dimension in the Pages axis of the grid, the member Actual is in the Scenario dimension, no page is displayed and an error message describing your access privileges is returned.

**Scenario 3**

You run a report based on the following grid:

**Page: Budget**

	1st Draft	2nd Draft	3rd Draft
London	###	###	###
Paris	###	###	###
New York	###	###	###

Because you do not have access to the entities on the rows, no page is displayed and an error message describing your access privileges is returned.

**Scenario 4**

You run a report based on the following grid:

**Page: Budget**

Descendants of Versions	
Descendents of Entities	###

The report returns the following data:

**Page: Budget**

	1st Draft	3rd Draft	Final Version
North	23.89	12.90	67.12

	<b>1st Draft</b>	<b>3rd Draft</b>	<b>Final Version</b>
Canada	2.67	8.90	54.78



---

# Formatting Reports

Formatting reports enables you to specify how report components, such as text boxes, grids, images, and charts, appear in your reports. For example, you can specify fonts and add borders. When you format a report, you define the properties of the components. The formatting you apply affects the printed and online report presentation.

---

**Note:**

Each object has default formatting properties. You can use the default format properties if you do not want to format your report.

---

## Formatting Best Practices

When formatting a report, keep in mind the following points:

- Cell formatting has precedence over row and column formatting and grid formatting.
- Cell formatting allows you to make exceptions to row and column formatting and grid formatting.
- Row/column formatting has precedence over grid formatting.
- Row/column formatting allows you to make exceptions to grid formatting.
- Conditional formatting takes precedence over all other formatting and replaces formatting previously set at the grid, row and column, or cell level. For example, if you use conditional formatting to change cell colors, and want to retain a specific number of decimal places applied with regular formatting, you must specify both formats using conditional formatting.
- The correct sequence in formatting a report is:
  1. Format the grid.
  2. Apply different formatting to rows and columns.
  3. Apply specific cell formatting.

## Changing the Page Setup

You can alter page settings that control how reports are printed or viewed. You can change the paper size, page orientation, heading display settings, default width and length for the report, and create a custom size for the work area. You can also specify

whether cell documents print with consecutive page numbers or print the page settings on each document.

To change the page setup:

1. Open a report and select **File**, and then **Page Setup**.
2. Define information in the tabs in the **Page Setup** dialog box, and then click **OK**.

---

**Note:**

When you print a report with cell document attachments enabled (see [Attaching Cell Documents in a Report](#)), the file attachment page numbers can be renumbered to reflect the page numbers of the report. For example, a nine page report with a five page Word document attached can renumber the Word document output to reflect the page number 10 to 15.

To print consecutive page numbers on cell documents, in the **Page Setup** dialog box on the **Page** tab, select **Consecutive Page Numbers**. To print the page numbers as specified on each cell document, clear **Consecutive Page Numbers**.

---

## Using Conditional Formatting

### Related Topics:

- [About Conditional Formatting](#)
- [Applying Conditional Formatting](#)
- [Changing the Order of Conditional Formats](#)
- [Deleting Conditional Formats](#)
- [Deleting Conditions](#)
- [Conditional Formatting Example](#)

## About Conditional Formatting

Use conditional formatting to apply specific formatting to cells in a grid. For example, assume you define “current cell value = 0” and then define a format to change the color of the cell font to blue if the criteria is met. If the data returned for the cell has a value of 0, then the font color is changed to blue.

Conditional formatting takes precedence over all other formatting and replaces formatting previously set at the grid, row or column, or cell level. For example, if you use conditional formatting to change cell colors, yet want to retain a specific number of decimal places applied with regular formatting, you must specify both formats using conditional formatting.

You can apply conditional formatting to enhance your reports. For example, you could underline any values greater than 1000. You can also set up more complex conditional formatting. For example, if the account type equals expense and the current cell value is greater than 1000, you could apply bold to the cell. In addition, if the value of a product cell is less than 1000, you could set the background color of the cell to green.




The manner in which you use conditional formatting can impact performance depending on the size of the report. Performance is also contingent on the criteria used and the frequency of use. All of these factors combined can affect performance. Criteria such as Data Value, Member Name, and Member Alias/Description are faster because they are part of the metadata or data query. Data Value comparisons are the fastest. Avoid criteria such as Generation, Level, Account Type, and Attribute Value whenever possible, as performance is slower because those criteria are not part of the regular metadata or data query.

## Applying Conditional Formatting

When you apply conditional formatting to cells in grids, you establish a condition for the selected cells, and then you specify formatting for values that meet that condition.

In a grid, each cell with conditional formatting contains a colored dash indicating that a conditional format is applied to the cell.

To apply conditional formatting:

1. In a grid, select a cell or cells, and then do one of the following:
  - Click .
  - Right-click a cell, then select **Format**, and then **Conditional Format**.
2. In the **Conditional Format**, dialog box, define the condition.
  - a. For **Condition1: If**, select a property value from the drop-down.
  - b. Depending on the property value you select, you may be able to enter a reference value.

You can type in a value, or click the drop-down to change the value if desired. For example, if you select "Cell Value," then the reference value is automatically populated with "A,1." At this point, you can keep this value or type in a new value. If you select "Generation," then the reference value is automatically populated with "Period." At this point, you can keep this value, or click the drop-down to select a new value.

- c. Select a comparison operator:
  - = (equal to)
  - < > (less than or greater than)
  - > (greater than)
  - > (greater than)
  - > = (greater than or equal to)
  - < = (less than or equal to)
  - **equals** (is equal to)
  - **not equals** (is not equal to)
  - **starts with**

- **ends with**
- **contains**
- **is**

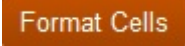
d. Select a comparison option:

- **Value**—Enables the assignment of a certain value to a cell.
- **Cell Value**—Returns the cell location; for example, A, 3.
- **Row Value**—Returns the number of the row.
- **Column Value**—Returns the letter of the column.
- **Zero**—Assigns a zero value for the condition.
- **No Data/#MISSING**—Indicates no data value for the selection.
- **Error**—Assigns the condition as an error.
- **String**—Enables the definition of a string for the condition.
- **0, 1, 2**—Indicates the number of levels or generations in the selected dimension.

**Note:** The options in the drop-down list depend on your property selection.

e. Depending on the comparison option you select, you may be able to enter a reference value.

You can type in a value, or click the drop-down to change the value if desired. For example, if you select "Cell Value," then the reference value is automatically populated with "A, 1." At this point, you can keep this value or type in a new value. If you select "Generation," then the reference value is automatically populated with "Period." At this point, you can keep this value, or click the drop-down to select a new value.

3. Click  to assign a format to the condition.

4. **Optional.** Click  to add additional formats.

You add up to seven formats. For each format, you can create up to seven conditions.

Additional formats enable the application of multiple formats when different conditions are met. After a condition is formatted, you can add another format that is tied to the cell.

For example, you can create one format that contains row and column numerical conditions to apply to the selected cell. Then, you can create another format that specifies text color, shading, or alignment.

5. **Optional.** Click  to add additional conditions.

You can add up to seven conditions.

If you add additional conditions, select **And** to combine a condition with the next condition, or select **Or** to distinguish a condition from the next condition.




6. Use the **Allow Not** and **Allow Parentheses** check boxes to establish logic for conditions:
  - **Allow Not**—Negate a condition.
  - **Allow Parentheses**—Define precedence, or order of consideration for conditions, and specify the set of conditions as intended.
7. Click **OK** to return to the grid.

## Changing the Order of Conditional Formats

After you add multiple formats, you can change the order in which the conditions are evaluated and formats are applied to the selected cells. For example, assume you specify a blue format for cells with a value of zero. In the second format, you specify a column value equal to the cell value and a row value equal to a specific number. Then, you specify a third format for the selected cell.

Using the arrows in the upper right corner of **Conditional Format** dialog box, you can change the order in which the formats are applied to a selected cell. The format order is significant, because formats are absolute. The conditions created in the first format take precedence over the other formats and conditions.



To change the order of conditional formats:

1. In a grid, select a cell or cells, and then click ; or, right-click a cell, then select **Format**, and then **Conditional Format**.
2. In the **Conditional Format**, dialog box, select a format tab, and then do one of the following:
  - Click  to move a formatted tab to the right.
  - Click  to move a formatted tab to the left.
3. Click **OK** to return to the grid.

## Deleting Conditional Formats

You can delete a format when the conditions it contains are no longer applicable. For example, if a format contains six conditions and you delete the format, you delete all six conditions contained in that one format.

To delete a format:



1. In a grid, select a cell or cells, and then click ; or, right-click a cell, then select **Format**, and then **Conditional Format**.
2. In the **Conditional Format**, dialog box, click .
3. If there is more than one format, from the drop-down list, select the format to delete.

4. Click **OK** to return to the grid.

## Deleting Conditions

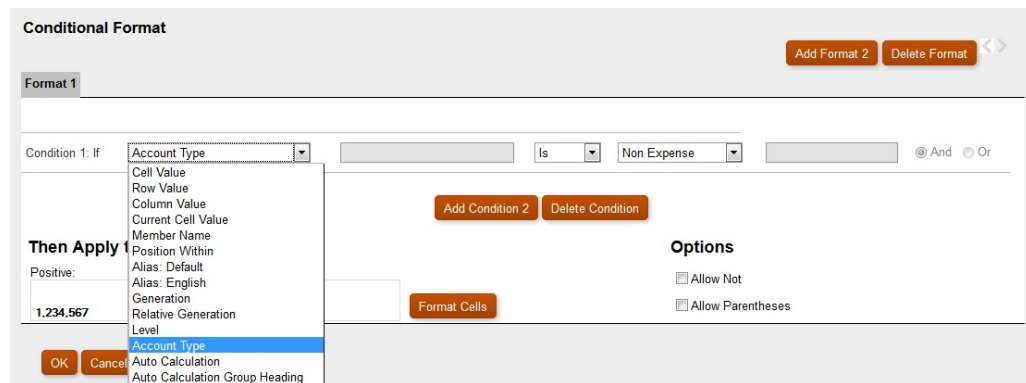
You can delete a condition if it is no longer applicable to the grid, cell, row, or column. This functionality enables you to delete a single condition rather than an entire format, which can hold as many as seven conditions.

To delete a condition:

1. In a grid, select a cell or cells, and then do one of the following:
  - Click .
  - Right-click a cell, then select **Format**, and then **Conditional Format**.
2. In the **Conditional Format** dialog box, click .
3. If there is more than one condition, from the drop-down list, select the condition to delete.
4. Click **OK** to return to the grid.

## Conditional Formatting Example

From the **Conditional Format** dialog box, select **Account Type** in **Condition 1: If**.



Select **Expense**, and then click  to apply bold formatting to the selected cell. (Leave all other font properties unchanged.)

**Conditional Format**

Format 1

Condition 1: If Account Type  Is Expense Non Expense Expense And Or

Add Condition 2 Delete Condition

**Then Apply this Format:**

Positive: 1,234,567 Negative: -1,234,567 Format Cells

**Options**

☐ Allow Not

☐ Allow Parentheses

OK Cancel

**Format Cells**

Number Alignment Font Borders & Shading Replace

Font: Verdana Font Style: Bold Size: 8

Effects

☐ Strikeout:

☐ Underline:

Color: 000000

Preview

**AaBbYyZz**

OK Cancel

Click Add Condition 2 to add a second condition. Set the **Condition 2: If** statement to **Current Cell Value**. Set the operator value to > (greater than), leave the comparison value set to **Value**, and set the numeric value to **1000**.

Conditional Format

Add Format 2
Delete Format

Format 1

Condition 1: If

Account Type

Is

Expense

And Or

Condition 2: If

Current Cell Value

>

Value

1000

And Or

Add Condition 3

Delete Condition

Then Apply this Format:

Positive:

1,234,567

Negative:

-1,234,567

Format Cells

Options

☐ Allow Not
☐ Allow Parentheses

OK

Cancel

Click **Add Condition 3** to add another condition, and then click **Format Cells** to set the background color to green when a Cola cell has a value < 1000.

Conditional Format

Add Format 2
Delete Format

Format 1

Condition 1: If

Account Type

Is

Expense

And Or

Condition 2: If

Current Cell Value

>

Value

1000

And Or

Condition 3: If

Current Cell Value

<

Value

1000

And Or

Add Condition 4

Delete Condition

Then Apply this Format:

Positive:

1,234,567

Negative:

-1,234,567

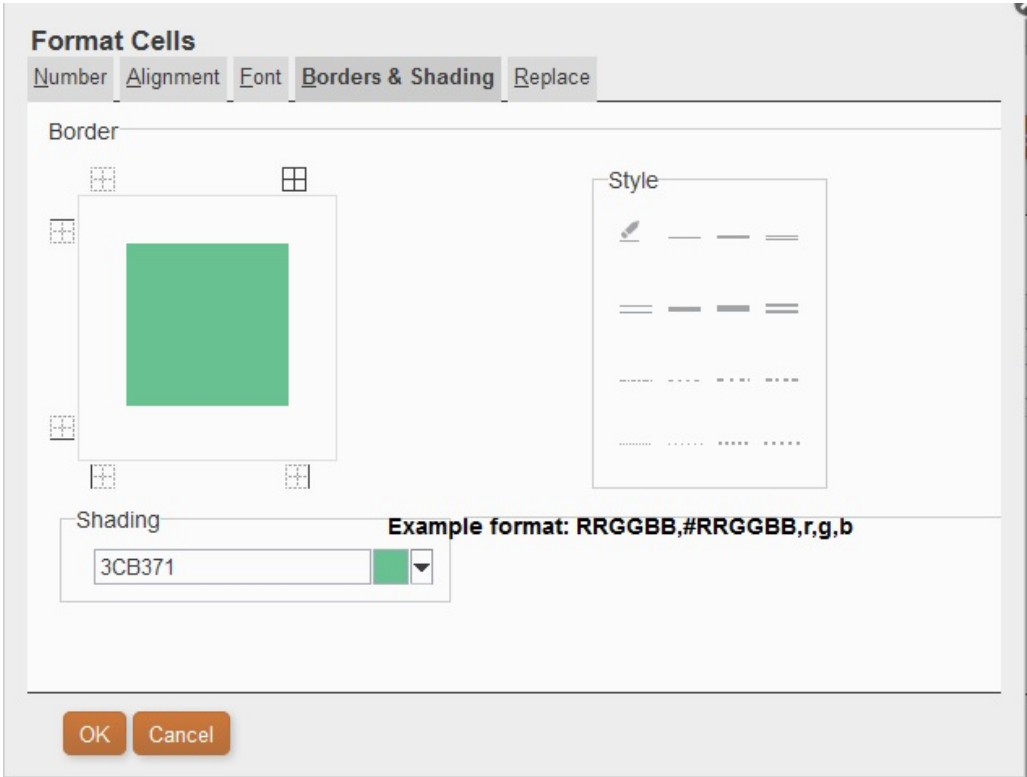
Format Cells

Options

☐ Allow Not
☒ Allow Parentheses

OK

Cancel



After you establish the conditions, you can select the check box for **Allow Parentheses**.

In the following scenario:

Condition 1 and Condition 3

or

Condition 2 and Condition 3

If a cell has the label Cola associated with it and the cell value < 1000, the background is set to green. If a Member Name contains Cola and the cell value is < 1000, the background is set to green.

# Using Conditional Suppression

## Related Topics:

- [About Conditional Suppression](#)
- [Conditional Suppression Behavior](#)
- [Defining Basic Conditional Suppression](#)
- [Defining Advanced Conditional Suppression](#)
- [Deleting Conditional Suppression](#)

## About Conditional Suppression

You can suppress the display of rows, columns, or grids using the following methods:

- **Basic**—Suppresses rows, columns, or grids based on "If Zero," "If Missing," and "If Error". See [Defining Basic Conditional Suppression](#).
- **Advanced**—Suppresses rows, columns, or grids based on several attributes. For example, you can specify that if a row contains cells with values below 100, the entire row is suppressed. See [Defining Advanced Conditional Suppression](#).

## Conditional Suppression Behavior

- If an entire row or column meets the criteria specified for conditional suppression, the entire row or column is hidden; if only some of the cells in a row or column meet the criteria specified for conditional suppression, the row or column is not hidden.
- Suppressed data is not included in calculations. For example, if you suppress rows 23 and 24 and then calculate a sum for rows 10 through 30, the sum does not include the values in rows 23 and 24.
- Conditional evaluation based on data values uses the underlying data value retrieved from the data source, not a formatted data value that may appear differently in the report.

For example if decimal places are not displayed in the report (for example 1,234), the evaluation is based on the underlying data value (for example, 1,234.5678).

- When evaluating suppression, you can include or ignore the values and calculations in hidden rows and columns. This option is enabled only when **Hide Always** is selected for the row or column. Regardless of the setting selected, you can evaluate suppression based on hidden cells when you specifically reference the cells using the Advanced Option method for conditional suppression.
- Hidden cells are ignored when evaluating the suppression of a row or column unless they are specifically referenced. The output of the report is based on the condition used.

The following example is a report with hidden columns.

		A	(Hidden B Column)	C
		East	West	South
1	Cola	Missing	Missing	Missing
2	Root Beer	Missing	61	Missing
3	Diet	61	Missing	Missing

This report is used to describe the following conditional suppression scenarios.

In the following examples, column B is hidden, and rows 1, 2, and 3 are selected for conditional suppression.

The first example shows the results when specifying suppression based on missing data. Since the condition does not reference the hidden column or a specific cell in the hidden column, the hidden column is ignored:

Suppress Row If: Data Values in Current Row = No Data



	East	South
Diet	61	Missing

The second example shows the results when specifying suppression based on the data cells in the hidden column B. Since the condition specifies the hidden column B, Root Beer is not suppressed because cell B2 contains data:

Suppress Row If: Data Values in Column B = No Data

	East	South
Root Beer	Missing	Missing
Diet	61	Missing

- When you use conditional suppression based on attributes, you can suppress *formula* rows or columns based on the suppression status of other data rows or columns, and you can suppress *text* rows or columns based on the suppression status of other rows and columns. (You cannot suppress *data* rows or columns based on the values of formula rows or columns.)

The following table describes whether suppression is valid when referencing another suppressed data, formula, or text row or column.

If the Row / Column Type you are suppressing = And if suppression is based on Row / Column of Type =			
	Data	Formula	Text
Data	Available	Available	Not Available
Formula	Available	Not Available	Not Available
Text	Available	Available	Not Available

## Defining Basic Conditional Suppression

Use basic conditional suppression to suppress data in rows or columns based on "If Zero," "If Missing," and "If Error". You can combine basic conditional suppression with advanced suppression options. See [Defining Advanced Conditional Suppression](#).

To suppress data:

- In a grid, select the rows or columns to suppress, or select the entire grid.
- In **Properties**, under **Suppression**, select **Basic Options**, and then select one or more of the following options:
  - If Zero, Suppress**—Hide rows or columns where all cell values equal zero.
  - If Missing, Suppress**—Hide rows or columns where all cells are empty.
  - If Error, Suppress**—Hide rows or columns where data cannot be retrieved or calculated because of errors.

To replace #ZERO, #MISSING, or #ERROR values in rows or columns that cannot be suppressed:


1. Select an entire grid by clicking in the upper left cell.
2. In **Properties**, expand **Suppression**, and then do one of the following.
  - To replace zero (#ZERO) values in cells, enter a value in the **Zero Values** text box.
  - To replace no data (#MISSING) in cells, enter a value in the **No Data** text box.
  - To replace erroneous data (#ERROR) in cells, enter a value in the **Error** text box.

## Defining Advanced Conditional Suppression

Use advanced conditional suppression to suppress rows or columns in a grid based on specified attributes or values. Conditional suppression can be simple or complex, and can contain a maximum of seven conditions. You can combine advanced conditional suppression with basic suppression options. See [Defining Basic Conditional Suppression](#).

When you define conditions, you can include the Not operator to suppress rows or columns that do not meet the condition (that result in false), and parenthesis to enclose and separate conditions from other conditions. Conditional suppression may be based on data or formula values.

To suppress data:

1. In a grid, select the rows or columns to suppress, or select the entire grid.
2. In **Properties**, under **Suppression**, select **Advanced Options**, and then click .
3. In the **Conditional Suppression**, dialog box, define what to suppress:
  - a. For **Suppress Row/Column: If**, select a property value from the drop-down.
  - b. Depending on the property value you select, you may be able to enter a reference value.

For example, if you select "Generation," then you can click the drop-down to select a reference value of "Period," "Version," "Account," "Entity," "Product," "Year," "HSP\_View," or "Scenario." If you select "Value in Cell," then A, 1 is automatically filled in. You can change this value if desired.

- c. Select a comparison operator.
  - = (equal to)
  - < > (less than or greater than)
  - > (greater than)
  - > (greater than)
  - > = (greater than or equal to)
  - < = (less than or equal to)
  - **equals** (is equal to)

- **not equals** (is not equal to)
  - **starts with**
  - **ends with**
  - **contains**
  - **is**
- d. Select a comparison option.
- **Value**—Returns the cell location; for example, A, 3.
  - **Cell Value**—Returns the cell location; for example, A, 3.
  - **Row Value**—Returns the number of the row.
  - **Column Value**—Returns the letter of the column.
  - **Zero**—Assigns zero value for condition.
  - **No Data/#MISSING**—Indicates no data value for selection.
  - **Error**—Assigns the condition as an error.
  - **String**—Enables the definition of a string for the condition.
  - **0, 1, 2**—Indicates the number of levels or generations in the selected dimension.


**Note:** The options in the drop-down list depend on the property value you selected.

- e. Depending on the comparison option you select, a reference value may be filled in. You can type in a value, or click the drop-down to change the value if desired.

You can type in a value, or click the drop-down to change the value if desired. For example, if you select "Cell Value," then the reference value is automatically populated with "A, 1." At this point, you can keep this value or type in a new value. If you select "Generation," then the reference value is automatically populated with "Period." At this point, you can keep this value, or click the drop-down to select a new value.

4. **Optional.** In the **Options** area, add one of the following logic options to your condition:

- **Allow Not**—Allow suppression only if the condition is not met.
- **Allow Parentheses**—Define precedence, or order of consideration for conditions, and specify the set of conditions as intended.

5. **Optional.** Click  to add additional conditions.

You can add up to seven conditions.

If you add additional conditions, select **And** to combine a condition with the next condition, or select **Or** to distinguish a condition from the next condition.

6. Click **OK** to return to the grid.

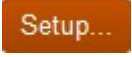

Note that the **Conditional Suppression** dialog box displays one of the following labels above the suppression options:

- **Basic Options:None**—Basic options not selected with Advanced options.
- **If Zero, Suppress OR**—If Zero is selected with Advanced options.
- **If Zero OR Missing, Suppress OR**—If Zero and If Missing are selected with Advanced options.
- **If Zero OR Error, Suppress OR**—If Zero and If Error are selected with Advanced options.
- **If Zero OR Missing OR Error, Suppress OR**—If Zero, If Missing and If Error are selected with Advanced options.
- **If Missing, Suppress OR**—If Missing is selected with Advanced options.
- **If Missing OR Error, Suppress OR**—If Missing and If Error are selected with Advanced options.
- **If Error, Suppress OR**—If Error is selected with Advanced options.

## Deleting Conditional Suppression

You can delete conditional suppression if it is no longer applicable. This functionality enables you to delete one condition at a time, which can hold as many as seven conditions.

To delete conditional suppression:

1. In a grid, select the rows columns to which conditional suppression is applied.
2. In **Properties**, under **Suppression**, click .
3. In the **Conditional Suppression** dialog box, click , and then select the condition to delete.
4. Delete additional conditions if desired, and then click **OK**.

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# Providing For Detailed Data and Documents in Reports

## Related Topics:

[Setting Up Expansions to Access Detailed Data in Reports](#)

[Positioning Expansion Rows and Columns](#)

[Working With Related Content](#)

[Attaching Cell Documents in a Report](#)

[Printing Cell Documents](#)

[Printing a List of Attached Cell Documents](#)

[Using Smart View for Office](#)

## Setting Up Expansions to Access Detailed Data in Reports

You can design a report to display detail rows and columns of a grid at the request of a user. You do this by enabling the expansion of a dimension that has parent-child relationships among its members. For example, if you enable the Time dimension to expand, users can expand a row that displays quarters into months.

You access detail rows and columns by selecting summary rows and columns from reports that are displayed.

To set up expansions to access detailed data in a report:

1. Open a report and select a grid.
2. Select the row or column headings for which you want to enable expansion.
3. In **Heading Row Properties** or **Heading Column Properties**, select **Allow Expansion**.

---

### Note:

When Hybrid Data is available for a base-level member in Oracle Essbase, an expansion arrow is displayed next to the base-level member and you can expand into Hybrid Data. Expansions are not allowed on rows with line-item-detail or supporting detail, or on columns containing a row with line-item-detail.

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If expansions are enabled in any grid rows or columns, you can enable users to expand and collapse all expansions in the HTML Preview of the report.

To enable the Expand All option:

1. Open a report and select a grid
2. In **Grid Properties**, select **Allow Expand All**.

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**Note:**

If there are a large number of expansions in the grid, including at multiple hierarchy levels, and there are multiple dimensions in the rows or columns, enabling **Allow Expand All** can result in poor performance if all sections are expanded. Before enabling this feature, consider your grid design, the number of expansions, and the dimension hierarchy depth. If there are multiple dimensions in the rows and columns with expansions enabled, using **Allow Expand All** may return different results than if you expand the multiple dimensions manually.

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## Positioning Expansion Rows and Columns

You can specify whether expanded items are displayed before or after the dimension's summary-level row or column.

To position expansion rows and columns:

1. Open a report and select a grid.
2. In **Grid Properties**, expand **Position**.
3. In **Position of Expansions**, select an option:
  - **Before Parent**—Displays expansions before the summary-level row or column.
  - **After Parent**—Displays expansions after the summary-level row or column. (This is the default.)

## Working With Related Content

**Related Topics:**

[About Related Content](#)

[Creating a Link to Related Content](#)

[Modifying the Properties For Related Content](#)

[Specifying Related Content Link Descriptions](#)

[Examples of Related Content Results When Specified in Grid Cells](#)

[Removing Access to Related Content](#)

[Changing the Related Content Server for Multiple Reports or Grids in the Repository](#)

## About Related Content

Related content allows designers to set up links to Oracle Hyperion Financial Reporting documents, as well as Oracle Hyperion Interactive Reporting and Oracle Hyperion Web Analysis documents, and custom URL links. A user, when viewing a report in HTML in the Explore Repository, can drill into a related content link and execute the linked report or URL. Related Content is supported in dynamic and snapshot reports and books.

When applying related content, keep in mind these points:

- To apply related content to Oracle Hyperion Financial Data Quality Management, you must create a Financial Reporting report that connects to an Oracle Hyperion Financial Management, Oracle Essbase, or Oracle Hyperion Planning data source where the data in those data sources was loaded via ERP (Integration Adapter for Oracle Applications) from the FDM source data. Then in the Financial Reporting report, you create a related content link on a data cell/row/column that drills to the source data in FDM. When you run the report in the Explore Repository, the HTML Viewer displays the related content cells with an underline, if you click the link, then you drill down to the FDM Landing page where you can view the source data.

**Note:** Related content drill-down works the same using FDM and Oracle Hyperion Financial Data Quality Management, Enterprise Edition.

- The Retrieve Cell Documents feature supports document attachments from the data source, Financial Management and Essbase.
- When you create a Planning data source where the data is loaded via ERP (Integration Adapter for Oracle Applications) from the FDM source data, then in a Financial Reporting report, you can create a related content link on a data cell/row/column that drills to the source data in FDM.
- You can design a report that provides access to another report or a URL through a hyperlink. You can create numerous links through a data cell, text cell, formula cell or heading cell in the report design. Links can be created to reports through Reporting and Analysis servers, if they are registered through Oracle Hyperion Shared Services or on the `RelatedContentURLS` property that you can set in the `JConsole.exe` file. For information on `JConsole`, see the *Oracle Hyperion Financial Reporting Administrator's Guide*. End users can click a cell in HTML preview of a Financial Reporting report in the Explore Repository with related content links, then select a linked report from a Related Content menu.
- When you run a report in the Explore Repository, the HTML Viewer displays the related content cells with an underline. If you click the link, a Related Content dialog box is displayed where you can select the desired target object to launch.
- You can specify related content for any cell within a grid object (data cells, text cells, formula cells, heading cells), text object, image object or chart object. When related content is any cell except a text cell, the point of view (POV) included in the related content link is limited to the unambiguous members for that cell. For examples of related content results in a grid, see [Examples of Related Content Results When Specified in Grid Cells](#).
- You can specify related content conditionally in the Conditional Format dialog box on any grid object cell. On the Replace tab of the Format Cells dialog box, you can specify related content links. For example you can enter a condition: "if

Market member name is “East”, link to ReportABC; if Market member name is “West”, link to ReportXYZ. See [Applying Conditional Formatting](#).

- You can specify related content on Image, Chart and Text objects. The link is applied to the entire object. You can click Chart and Image objects with related content to point to the related content link. For Text objects with related content, the entire textual content is marked as a hyperlink. When clicked, the related content link is followed.
- When a data cell has a related content link because of a cell document, if that cell is referenced through the <<GetCell()>> or <<CellText()>> function, the <<GetCell()>> or <<CellText()>> value also has the related content link. The behavior of a related content link in a cell document is the same as a related content link designed in a Financial Reporting report. For more information about <<CellText()>>, see [CellText](#).
- URL strings in Text objects and Grid object text cells are replaced with a “[Link]” hyperlink to that URL. URLs must begin with “http”, “https, or “ftp” in order for a URL to be converted. For example, if you type “This is a link to Google <http://www.google.com>” the result is “This is a link to Google [Link]”.

Text object and Grid object text cells are evaluated after any <<CellText()>> and <<Annotation()>> functions are evaluated. So if cell text or annotation function contains URLs, they are processed into hyperlinks as appropriate.

- When you select related content for a grid, you can also specify dimension descriptions for the related content link dimensions. The textual information is displayed in the book Table of Contents and navigation path (breadcrumb). The description is defined using the <<Value()>> function in the **Add Related Content** dialog box. See [Modifying the Properties For Related Content](#).
- When using related content in a report, the point of view (POV) of the report is set to that of the selected cell. For example, if you select the Gross Margin row of the Canada column, the POV for the account is set to Gross Margin, and the POV for the entity is set to Canada before the linked report is displayed. The POV context is not passed when you link to books through related content.
- You can define related content for data cells within a row or column. You can specify the same report for a group of cells by selecting the desired cells in the grid and then defining the related content. Based on the type of related content selected, you can modify properties, such as their label and URL and default display options.
- Object-level security is not enforced when you select related content, which enables you to select any report among the entire contents of each repository. However, object-level security is enforced when the report is requested for viewing.

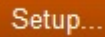
## Creating a Link to Related Content

To create a link to related content:


1. In a grid, select the desired rows, columns, cell object, grid, chart, image or text object.



2. From the Property sheet, select the **Add Related Content** check box, and then click




Each Reporting and Analysis server repository is listed as a node in a tree view. The remote servers are obtained from the `RelatedContentURLS` property that you can set in the `JConsole.exe` file. For information on `JConsole`, see the *Oracle Hyperion Financial Reporting Administrator's Guide*, or Application Management.

3. In the **Add Related Content** dialog box, click  under the **Oracle Hyperion Reporting and Analysis** node to expand the available folders.

4. Select the folders and reports to which you want to create links:

- Select folders to enable end users to select from the complete contents of the folder.


To select a folder, select the folder, and then click  to move the folder to the list of selected folders and reports.

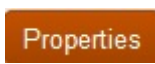
- To select an individual report, expand the folder that contains the report, then select the report, and then click  to move the report to the list of selected folders and reports.

5. **Optional.** Modify the properties of the folders and reports selected for related content.

You can modify the properties of folders and reports in one of the following ways:

- Select the check box next to **Show Properties dialog when adding content from Oracle Hyperion Reporting and Analysis data sources** check box.

After you select a folder or report to link and click , the **Related Content Properties** dialog box is displayed.

- Highlight the folder or report in the list of selected folders and reports, and then click  to display the **Related Content Properties** dialog box.

See [Modifying the Properties For Related Content](#).

6. **Optional.** Select **Show all object types** to see all repository object types in the **Add Related Content** dialog box.

When this option is not selected, only Oracle Hyperion Financial Reporting objects are shown.

Showing all object types simplifies book functionality

7. Click **OK**.

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**Note:** When related content has been added to a cell, image, chart, or text, a red indicator is displayed in the top right corner of the cell to indicate that it has related content.

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## Modifying the Properties For Related Content

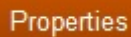
You can modify properties of a selected report object. Based on the type of report object selected, you can modify such properties such as its label or URL, and you can set default display options.

To modify properties for related content:

1. In a grid, select the rows, columns, or data cells that contain the related content item to edit.
2. From the Property sheet, select the **Add Related Content** check box, and then click

A rectangular button with an orange gradient background and the text "Setup..." in white.

3. In the **Add Related Content** dialog box, select a report object selected for related content, and then click

A rectangular button with an orange gradient background and the text "Properties" in white.

4. In the **Related Content Properties** dialog box, edit the desired properties:

The items that are displayed depend on the report type selected. For example, for Oracle Hyperion Financial Reporting, all display options are provided for a report, snapshot, book, and snapshot book. However, for a custom link, only the label and a URL fields are available.

Depending on the report type, the following items are available to edit:

- **Label**—Name of the report object link. You can apply the `<<Value()>>` text function to specify descriptions of the dimension values for the related content link. See [Specifying Related Content Link Descriptions](#).
- **URL Tabs**—URL of the linked object.
- **Display Options**—For **Provide**, for Financial Reporting, select the formats that can be viewed by the end user (HTML and PDF). For Oracle Hyperion Web Analysis, select whether the report can go to the Java Client, Oracle Hyperion Enterprise Performance Management Workspace, or both. For **Default**, select the format to link with the report name as the primary selection. The format not selected is listed as the secondary selection.

5. Click **OK**.

## Specifying Related Content Link Descriptions

In HTML output of a book, you may want to see the description of the related content results in the table of contents and navigation path (breadcrumb). In the Label field of the **Related Content Properties** dialog box, you can include a text function, `<<Value()>>`, to specify the related content result you want shown. Using the image below as an example, where you have Measure and Market on the POV, Product on the rows (showing aliases), Year (with custom heading text) on the first column, and Scenario on the second column of a report result, if the description of the related content link is

`rc900<<Value(Product)>><<Value(Year)>><<Value(Market)>>` the following will show in related content results of the book's table of contents and

navigation path:

[Measures:Market:](#)  
[Profit](#)   [East](#)

	<a href="#">First Qtr</a>	<a href="#">Second Qtr</a>	<a href="#">Formula B - A</a>
	<a href="#">Actual</a>	<a href="#">Actual</a>	
<a href="#">Colas</a>	<a href="#">2,747</a>	<a href="#">3,352</a>	<a href="#">605</a>
<a href="#">Root Beer</a>	<a href="#">562</a>	<a href="#">610</a>	<a href="#">48</a>
<a href="#">Cream Soda</a>	<a href="#">591</a>	<a href="#">922</a>	<a href="#">331</a>
<a href="#">Fruit Soda</a>	<a href="#">1,480</a>	<a href="#">1,615</a>	<a href="#">135</a>

[Click to Show PDF](#)

[Link to rc900](#)

- If you click on cell 3,B (value of 922), the text displayed is: rc900 CreamSoda , Second Qtr , East .
- If you click on cell 1,A (value of 2,747), the text displayed is: rc900 Colas , First Qtr , East .
- If you click on the "Fruit Soda" heading cell, the text displayed is: rc900 Fruit Soda , East (Year is not included since it is ambiguous).

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**Note:**

The heading value of the appropriate dimension is shown, not necessarily the member name. For example, "Cola" is shown rather than "100", and "First Qtr" is shown rather than "Qtr1".

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**Note:**

If the dimension specified in the <<Value()>> function is not included in the POV of the related content link, the <<Value()>> text is replaced with an empty string (" ").

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## Examples of Related Content Results When Specified in Grid Cells

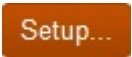

The following report image has related content on all cells. Measure and Market are on the point of view (POV), Product aliases are on the rows, Year and Scenario are on column 1 and 2. Column 3 is a formula column and column 4 is a text column.

<u>Measures:</u> <u>Market:</u>				
<u>Profit</u>	<u>East</u>			
	<u>First Qtr</u>	<u>Second Qtr</u>	<u>Formula B - A</u>	
	<u>Actual</u>	<u>Actual</u>		
<u>Colas</u>	<u>2,747</u>	<u>3,352</u>	<u>605</u>	<a href="#">Click to Show PDF</a>
<u>Root Beer</u>	<u>562</u>	<u>610</u>	<u>48</u>	
<u>Cream Soda</u>	<u>591</u>	<u>922</u>	<u>331</u>	
<u>Fruit Soda</u>	<u>1,480</u>	<u>1,615</u>	<u>135</u>	<a href="#">Link to rc900</a>

- If you execute related content on the row headings (Colas, Root Beer, Cream Soda, and Fruit Soda), the POV included in the related content link includes all the dimensions except Year and Scenario. You cannot specify a Year or Scenario member when clicking on the row heading since it is ambiguous which member you want.
- If you execute related content from the formula cells, Product, Measures and Market are included; Year and Scenario are not included.
- If you execute related content from the formula heading cell (Formula B-A), only Measure and Market from the POV are included.
- If you execute related content from the "Link to rc900" text cell, only Measure and Market from the POV are included.
- If you execute related content from the "Click to Show PDF" text cell, Product, Measures, and Market are included; Year and Scenario are not included.

## Removing Access to Related Content

To remove access to a linked report:

1. Select a report that contains links to related content.
2. Select the rows, columns, or data cells from which you want to remove a related content link.
3. From the Property sheet, select the **Add Related Content** check box, and then click .
4. In the **Add Related Content** dialog box, highlight the report object to remove, and then click .
5. Click OK.

## Changing the Related Content Server for Multiple Reports or Grids in the Repository

After moving content from another server, you can use Oracle Hyperion Enterprise Performance Management Workspace to change the server for selected reports, grids, or both in the repository by specifying a new URL or a substitution variable. You may

want to change the related content servers; for example, you might do this when moving your reports and grids from a development server to a production server.

For instructions on changing the related content server in the repository, see the *Oracle Hyperion Enterprise Performance Management Workspace User's Guide*.

## Attaching Cell Documents in a Report

Cell documents that are attached at the data source can be accessed in reports. The attached documents appear as hyperlinks at the end of a PDF or snapshot report. The documents are accessed in the HTML client when drilling into a cell. In addition, you can insert footnotes into a text object or text cell of the report that lists information about the attached cell documents by selecting the [ListofCellDocuments](#) text function. All cell documents have a point of view associated with the data cell to which they are attached.

A data cell can contain multiple cell documents. If a data cell contains cell documents in the data source, a designer can extract those documents, based on the given cell's POV. Cell documents can be attached to reports contained in books and snapshot books.

To attach cell documents:

1. Select a *data type* cell in a grid.
2. In **Cell Properties**, select **Retrieve Cell Documents**.

For optimum retrieval performance, select **Retrieve Cell Documents** only for cells with attachments to include in the report. If cell documents exist for the selected cell, they are appended to the report when printed.

When you attach cell documents in a report, consider the following points:

- Include the correct supported extensions for files.
- Files which are corrupt or improperly uploaded to the ADM provider will not print.
- Documents containing file extensions that are not properly registered to print will fail.
- Oracle Hyperion Financial Reporting Web Studio does not support Microsoft files containing macros or that trigger UI components requiring user input. Some Microsoft files with macros perform operations when the file is opened which include the launching of dialogs requiring user input. Files that display dialogs or UI components requiring user input may not be available to print.

This may also hold up the completion of the PDF generation process. The server's administrator may need to stop the application through Task Manager to resume printing activities. Because the application is launched under the SYSTEM account, it may not be visible since the process was not initiated by the login account.

## Supported Microsoft Office File Types

- Microsoft Word files (\*.doc, \*.docx, \*.rtf)
- Microsoft Excel files (\*.xls, \*.xlsx)

- Microsoft PowerPoint files (\*.ppt, \*.pptx)
- PDF files (\*.pdf)
- Text files (\*.txt)

## Viewing Reports Containing Cell Documents

In Oracle Hyperion Enterprise Performance Management Workspace, you can view reports containing cell documents in PDF or HTML output.

### PDF Output

- Hyperlinks to all files are included in the bottom of the document output, after the Oracle Hyperion Financial Reporting report content. Click a hyperlink to launch the document.
- The function returns the file name and description parameters for all cell documents. The page number parameter is only displayed for the supported Microsoft Office documents.

### HTML Output

- All cell documents in HTML preview are hyperlinks.
- Depending on the user settings in the browser, the cell document may be opened automatically in a new browser window.
- The [ListofCellDocuments](#) function returns the file name and description parameters, but not the page number parameter.

## Displaying a List of Cell Document

Use the [ListofCellDocuments](#) text function to display a list of all cell documents and attributes such as description and start page number that are retrieved in the report. You can enter the function in a text object, text cell, or text cell heading.

## Printing Cell Documents

Use the **Page** tab in the **Page Setup** dialog box to print cell documents with consecutive page numbers. The starting page of the first cell document is determined by the length of the report. Each document prints on a new page. If you do not select to print consecutive numbers in your cell documents, the page numbering reverts to the setting of each document.

For information on setting print options for cell documents, see [Changing the Page Setup](#).

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### Note:

Text files are inserted into a Word template before the actual printing occurs.

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**Note:**

In Oracle Hyperion Financial Management, when you upload files for attachments to cell, the file name truncates to 20 characters. You can change the document's name. Make sure to retain the file name extension (.doc, .xls).

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## Printing a List of Attached Cell Documents

Use the [ListofCellDocumentsListofCellDocuments](#) text function to display a list of all cell documents and attributes such as description and start page number that are retrieved in the report. The function can be entered into a text object, text cell, or text cell heading.

## Using Smart View for Office

Smart View provides a common Microsoft Office interface for Oracle Hyperion Financial Reporting

The centralized interface enables simultaneous use of multiple Oracle products, and improves integration with Microsoft Office. The Smart View implementation provides the following functionality:

- Exports the current page of the current data object to Excel, Word, or PowerPoint
- Exposes Oracle Hyperion Financial Management and Oracle Essbase functions in Excel, Word, and PowerPoint content
- Notifies you when you can upgrade to new releases of Smart View.





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# Previewing and Printing Reports

## Related Topics:

[Previewing Reports](#)

[Responding to Prompts When Previewing](#)

[Printing Tips for Designers](#)

## Previewing Reports

To preview a report in a web browser:

1. Open a report in the Report Designer.
2. Do one of the following:

- Click  or .
- Select **File**, and then either **HTML Preview** or **PDF Preview**.

## Responding to Prompts When Previewing

If a report is designed with prompts, those prompts are displayed when you preview the report. You must respond to the prompt and provide the requested information by selecting members from the prompt list. You can also edit the prompts manually. If the prompts contain alias names, you can edit the alias names by converting to member names. See [Setting Up Report Prompts](#).



To respond to a prompt when previewing a report:

1. With a report open in the Report Designer, select **File**, and then either **HTML Preview** or **PDF Preview**.
2. In the **Respond to Prompts** dialog box, under the **Selection** column, do one of the following:
  - If the member is known, enter the member name in the text box for the respective prompt.

If the text box is disabled, the prompt contains alias names. To edit the text box, select **Edit Member Names**. If multiple members are provided for the prompt, separate the members with commas.

Selecting **Edit Member Names** displays member names in the text box, not alias names. You can edit the member name associated with an alias.

- Click .

In the **Select Members** dialog box, the default member is listed in the Selected area. Click  and  to move members between the panels.

For more information on defining members, see [Defining Members](#),

3. Select **OK**, and then click **Run**.

## Printing Tips for Designers

### Related Topics:

[Positioning and Alignment](#)

[Printing Text Boxes](#)

[Printing Grids](#)

[Printing Page Dimension Headings](#)

[Printing Headers and Footers](#)

## Positioning and Alignment

Setting relative positioning on auto-sized report objects gives you precise control over how report objects are positioned relative to one another. If none of the report objects in your report is auto-sized, then the relative positioning is ignored.

If you set the position of a report object to relative, all report objects within the design shift so that the distance between the auto-sized report object and fixed report objects remain the same.

For example, if Grid A is auto-sized and has horizontal positioning set to "center", then Grid A is printed in the center of the page. If Chart A is linked to Grid A and has its vertical position set to "relative," then Chart A is printed one inch (25.4 mm) from the bottom edge of Grid A.

If the alignment for Chart A is not set to relative, it is printed on the absolute coordinates in the layout of the grid, so it might overwrite Grid A.

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### Note:

Vertical and horizontal positioning are not maintained after changes are made to the report.

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### Note:

When printing reports containing overlapping objects, objects may not print as displayed in the designer, requiring you to rearrange the objects in your report.

---

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## Printing Text Boxes

If you set the auto-size property for a text box:

- when you print a report, the height of a text box increases or decreases to accommodate all the text in the text box.
- The width of the text box does not change.

If the auto-size property is not set when you print a report:

- The text box is printed at the height and width of the grid.
- Text that does not fit in the text box is truncated.

## Printing Grids

If you set the auto-size property for a grid and then print the grid, the height and width of the grid increases or decreases to accommodate all data in the grid.

When the auto-size property is not set, the grid prints at the height and width specified. If a row or column does not fit on a page, it prints on subsequent pages. The columns print first using as many pages as needed, followed by the rows.

You use the positioning properties of the grid to align the grid on the page. Manually positioning the grid to the right or bottom of the page does not ensure that the grid will print on the right or bottom of the report.

When a grid is set to auto-size, and does not fit on one page, it prints on subsequent pages. The columns print first, starting on the left margin of the next page, followed by the rows, which print starting at the top of the next page.

## Printing Page Dimension Headings

You can specify a page dimension heading for a grid in **Page Properties**. When you print a report, the page dimension heading prints every time the page member changes.

Page dimension headings print as follows:

- The text is left justified at the left edge of the grid.
- The text is auto-sized vertically, and the width is set to the width of the grid.
- The heading prints above the first row in the grid each time the page member changes.

A page dimension heading prints the member name every time the page member changes. Members on the page dimension can have their own custom heading.

To define a page dimension heading:

1. Open a report and select a grid.
2. Select the **Pages** list box on the grid.
3. In **Page Properties**, under **Page Printing Positioning**, select an option for the heading.
  - **New Page - Top**—Prints a new page at the top of the next page.  
Use this option when a chart is linked to a grid and you want to ensure that the chart and grid print next to each other every time the page member changes.
  - **New Page - Same**—Prints a new page at the specified grid location.

Use this option in the following situations:

- The grid has horizontal or vertical alignment properties set, and you want the grid to print in the same position on each page. For example, if you set the grid position to Center/Middle, it prints in the center of each page.
- When a chart is linked to a grid, and you want to ensure that the chart and grid print next to each other whenever the page member changes.
- **Same Page**—Prints the new page immediately after the data from the previous page.

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---

**Note:**

If a chart is linked to a grid, the chart prints once; not every time the page member changes.

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## Printing Headers and Footers

When printing header and footers, keep in mind the following points:

- You can place an auto-sized text box in the header; however, if the text box height expands beyond the header, it prints beyond the header boundary.
- You can place an auto-sized text box in the footer; however, if the text box height expands beyond the footer, the text is truncated.
- If you place an object near the top or bottom of the page, it might overlap the header or the footer.

---

# Using Functions

## Related Topics:

[Mathematical Functions](#)

[Text Functions](#)

[Conditional Functions](#)

[Financial Functions](#)

## Mathematical Functions

### Related Topics:

[About Mathematical Functions](#)

[Abs](#)

[Average](#)

[AverageA](#)

[CountA](#)

[Difference](#)

[Eval](#)

[Max](#)

[Min](#)

[PercentofTotal](#)

[Product](#)

[Round](#)

[Sum](#)

[Truncate/Truc](#)

## About Mathematical Functions

Mathematical functions perform calculations on numeric values or data from a grid. Mathematical functions, formulas, and their syntax are not case-sensitive.

The syntax for a mathematical function is:

*FunctionName*(arguments)

where:

*FunctionName* is the name of the mathematical function.

*arguments* are a numeric value, a row, column, or cell reference, or an embedded function.

## Arguments in Mathematical Functions

### Related Topics:

[Numeric Arguments](#)

[Row, Column, or Cell Reference Arguments](#)

[Aggregate Property Arguments](#)

[Reference Property Arguments](#)

[Embedded Functions as Arguments](#)

### Numeric Arguments

The syntax for a numeric argument is:

*(numeral1, numeral2, ... numeraln)*

where numerals 1 through *n* are any numbers including decimals and negative values. For example, the expression `Average (10, 20, 30)` returns the value 20.

### Row, Column, or Cell Reference Arguments

The syntax for a row, column, or cell argument is:

*FunctionName (GridName.GridElement[segment(range)].Property)*

**Table 11-1 Argument Components**

Argument	Description
<i>GridName</i>	(Optional) Name of a grid. For example, <code>Difference (grid1.row[5], grid2.row[5])</code> returns the difference of two rows on grid1 and grid2. If <i>GridName</i> is not specified, the default is the current grid where the formula is entered.
<i>GridElement</i>	(Optional) One of the following keywords: row, col, column, or cell. For example, <code>Max (row[1], row[2], row[3])</code> returns the maximum value of three rows. (The keyword row and column or col is optional.) You must specify row and column segment IDs. For example, <code>cell[2, A]</code> refers to the cell that is the intersection between row 2 and column A. The keyword cell is optional. For example, <code>[5, B]</code> refers to the cell that is the intersection between row 5 and column B. Cell references can use [row, col] syntax or [col, row] syntax. If <i>GridElement</i> is specified, letters represent columns and numbers represent rows; for example, <code>Max ([1, A], [2, A], [3, A])</code>

**Table 11-1 (Cont.) Argument Components**

Argument	Description
<i>segment</i>	(Required) Row, column, or cell reference number of a grid. For an expanded row or column, you must specify the segment. For example, <code>row[2]</code> addresses row segment 2. Segments are enclosed in square brackets <code>[]</code> .
<i>range</i>	<p>(Optional) Rows, columns, or cells that are expanded from the specified segment. If <i>range</i> is specified, the formula is calculated using only the specified range. For example, <code>row[2(3:5)]</code> uses only the 3rd through 5th rows of expanded segment 2.</p> <p>When <i>range</i> is not provided, all expanded cells are used.</p> <hr/> <p><b>Note:</b> If a segment expands to only one row or column, do not use the <i>range</i> argument.</p> <hr/>
<i>property</i>	<p>(Optional) One of the following keywords: <code>average</code>, <code>averageA</code>, <code>count</code>, <code>countA</code>, <code>max</code>, <code>min</code>, <code>product</code>, or <code>sum</code>. Property is used to aggregate the expanded rows, columns, or cells specified.</p> <p>Do not specify property when a reference is an argument. By not specifying property, the function calculates the reference in the most appropriate way. For example, the following expression returns the average of the cells within rows 1 and 2:</p> <pre>Average(row[1], row[2])</pre> <p>Whereas the following example first calculates the average of <code>row[1]</code>, then the average of <code>row[2]</code>, adds these two results, then divides by 2:</p> <pre>Average(row[1].average, row[2].average)</pre> <p>The default property for a row, column, or cell reference that is <i>not</i> used as a function argument is the <code>sum</code> property. For example, the following expression's default property is <code>sum</code>:</p> <pre>row[2]</pre> <p>See <a href="#">Aggregate Property Arguments</a> and <a href="#">Reference Property Arguments</a>.</p>

Because *segment* is the only required part of a reference, the following references are the same:

```
Grid1.row[1].sum
```

```
[1]
```

`AverageA` and `CountA` include `#missing` and `#error` cells in the calculation. For example, if row 1 is a segment row that expands to `Qtr1 = 100`, `Qtr2 = 200`, `Qtr3 = #missing`, and `Qtr4 = 400`, the following function returns the value four (4):

```
row[1].CountA
```

All other functions exclude #missing data or #error cells. For example, the previous example of row 1 that expands to Qtr1 = 100, Qtr2 = 200, Qtr3 = #missing, and Qtr4 = 400, returns three in this example:

```
row[1].Count
```

### Aggregate Property Arguments

An aggregate row, column, or cell contains multiple rows, columns, or cells, respectively. The aggregate property argument is the last argument in the following mathematical function syntax:

```
FunctionName(GridName.Gridelement[segment(range)].property)
```

You apply aggregate properties to a row, column, or cell reference. Aggregate properties include:

- [Average](#)
- [AverageA](#)
- [CountA](#)
- [Max](#)
- [Min](#)
- [Product](#)
- [Sum](#)

When used as a mathematical function argument, the default for property is the same as the function. In the following example the default property is *Average*:

```
Average(row[2])
```

When not used as a mathematical function argument, the default for property is *sum*. In the following example the default property is the sum of an aggregate row:

```
row[2]
```

### Reference Property Arguments

A reference property argument specifies how to treat formula reference results and is used in conjunction with the other properties.

There is one reference property argument: *IfNonNumber / IFFN*.

*IfNonNumber* specifies a replacement for #Missing and #Error values with a specific numeric value.

The syntax is:

```
AXIS[segment(range)].IfNonNumber(arg).AggregateProperty
```

**Table 11-2 Argument Components**

Argument	Description
AXIS	(Optional) A row, column, or cell keyword.
<i>Segment(range)</i>	Any axis reference, such as a row number or column letter.



**Table 11-2 (Cont.) Argument Components**

Argument	Description
<code>IfNonNumber</code>	How to treat missing or error data within the <code>AxisRef</code> .
<code>(arg)</code>	What number to use if missing or error data is encountered within the <code>AxisRef</code> .
<code>AggregateProperty</code>	(Optional) The aggregate function used for aggregate segments. See <a href="#">Aggregate Property Arguments</a> .

For example:

If `cell[1,A] = 3` and `cell[1,B] = #Missing`,

The following expression returns `#Error`:

```
cell[1,A] / cell[1,B]
```

The following expression replaces `cell[1,B]` with 1 and returns 3:

```
cell[1,A] / cell[1,B].ifNonnumber(1)
```

---

---

**Note:**

If you use suppression for `#Missing` or `#Error` in a grid, and the grid contains a formula row or column that uses the `IfNonNumber` property, `#Missing` and `#Error` remain suppressed.

---

---



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---

**Note:**

When using a Oracle Hyperion Financial Management database connection, and the `MissingValuesAreZeroInFormulas` (formerly `MissingValuesAreZeroInFormulasInHFM`) option in JConsole is set to one (1), the `#Missing` value is zero regardless of the setting of the `IfNonNumber` property. However, if the file is set to zero, the `IfNonNumber` property behaves as described. (For information on JConsole, see the *Oracle Hyperion Financial Reporting Administrator's Guide*.)

---

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### Embedded Functions as Arguments

You can embed functions as arguments within a function. In the following example, the function `Average` is embedded in the function `Sum`:

```
sum(row[3:5], avg(row[4:6], 40, 50), row[7:9], 70, 80)
```

- Row segments 3, 4 and 5
- The average of row segments 4, 5 and 6, with the numbers 40 and 50
- Row segments 7 and 9
- The numbers 70 and 80

## Mathematical Operators in Expressions

Operators are symbols that perform arithmetical tasks or comparisons, or refer to ranges of columns, rows, or cells. Use operators in formulas that perform calculations on data rows or columns.

**Table 11-3 Operators in Standard Formulas**

Type	Operator	Description	Example
Arithmetical	+	Add	Add the values in rows 4 and 5. [ 4 ] + [ 5 ] A space is needed after + . <ul style="list-style-type: none"> <li>Incorrect: 5+4</li> <li>Correct: 5+ 4</li> <li>Correct: 5+ -4</li> </ul>
Arithmetical	-	Subtract	Subtract 3 from the values in row 4. [ 4 ] - 3. A space is needed after - . <ul style="list-style-type: none"> <li>Incorrect: 5-4</li> <li>Correct: 5 - 4</li> <li>Correct: 5 - -4</li> </ul>
Arithmetical	*	Multiply	Multiply the absolute values in row 4 by 150. Abs ( [ 4 ] ) * 150
Arithmetical	/	Divide	Divide the values in row 4 by the values in row 5. [ 4 ] / [ 5 ]
Arithmetical	%	Percentage	Add the values in row 4 and multiply it by 10. row[ 4 ] . Sum * 10%
Arithmetical	^	Exponential	Return the sixth exponent of row 4. [ 4 ] ^ 6
Arithmetical	Decimal	Decimal number	Multiply the values in row 4 by 5.67. [ 4 ] * 5 . 67
Reference	[]	Specifies a row, column, or cell in a grid. Use numbers for rows and letters for columns.	Add the values in rows 4 and 12. Sum ( [ 4 ] , [ 12 ] )

**Table 11-3 (Cont.) Operators in Standard Formulas**

Type	Operator	Description	Example
Unary minus	-	Changes the sign of a value	Divide the values in column 4 by 12 and change the sign of the result. ([4] / 12)

**Tip:**

Use the Eval function to perform arithmetic operations as part of a function parameter. See [Eval](#).

**Tip:**

Natural precedence determines the order to carry out operations in expressions with multiple operators. See [Natural Precedence](#).

## Mathematical Operands in Expressions

Operands specify the values that an operator uses to produce a result.

**Table 11-4 Operands Supported in Financial Reporting Web Studio**

Operand	Examples
Literal	3, 0.0, 27.5, 65.334, -841
Row or column reference number	[1], [4], [8], [A], [C:D]
Cell reference number	[2, E], [E, 2]
<b>Note:</b> This cell reference addresses row 2 column E.	
Functions	Average, Min, Max
Scoping	Grid1.row[3]

In the following row formula, which multiplies the values in row 3 by 100, the row reference [3] and 100 are both operands:

[3] \* 100

## Natural Precedence

If a standard formula has two or more operators, the system performs the operations in the order of the operators' natural precedence.

The order of natural precedence to perform operations in an expression that has multiple operators is:

1. Unary minus (-# where # is any number)

Do not add a space after the unary minus operator.

2. Multiplication (\*) and division (/)
3. Subtraction (- #) and addition (+ # where # is any number)

Add a space after the subtraction and addition operator.

For example, if row 10 has a value of 8, the following expression produces a value of 20 for that column by calculating  $3 * 4 + 8 = 20$ , following the order of natural precedence:

```
[10] + 3 * 4
```

## Abs

**Abs** is a mathematical function that returns the absolute value of a numeric value, row, column, or cell. The absolute value of a number is that number without a negative sign. A negative number becomes positive, while a positive number remains positive.

### Syntax:

`Abs ( argument )`

where *argument* is one of the following values:

Argument	Description
numeric	A numeric value. For example, <code>Abs ( -20 )</code> returns the value 20. Numeric values can include decimals and negative values. See <a href="#">Numeric Arguments</a> .
row, column, or cell reference	A pointer to a row, column, or cell within a grid. You can specify references in several ways. The reference syntax is: <code>GridName.GridElement[segment(range)].Property</code> . See <a href="#">Row, Column, or Cell Reference Arguments</a> .
function	An embedded function. See <a href="#">Mathematical Functions</a> .

### Examples:

Return the value 30:

```
Abs (-30)
```

Return the absolute value of the value in row 1:

```
Abs(row[1])
```

Calculate the absolute value of the sum of column E:

```
Abs(column[E].sum)
```

Point to expanded rows 1 through 3 within design segment 3 of Grid1:

```
Abs(Grid1.row[3(1:3)])
```

## Average

Average is a mathematical function that returns the average of a group of numeric values, rows, columns, or cells. Average excludes #missing and #error cells when obtaining the average.

---

### Note:

The calculation does not include missing values regardless of whether they are suppressed.

---

### Syntax:

`Average (arguments)`

or

`Avg (arguments)`

where *arguments* is one or more of the following values:

Argument	Description
numeric	A numeric value. For example, <code>Average (10, 20, 30)</code> returns the value 20.  Numeric values can include decimals and negative values. See <a href="#">Numeric Arguments</a> .
row, column, or cell reference	A pointer to a row, column, or cell within a grid. For example <code>Avg (Grid1.row[4 (3:5)])</code> returns the average of grid1, row segment 4, range 3 through 5.  You can specify references in several ways. The reference syntax is: <code>GridName.GridElement[segment(range)].Property</code> . See <a href="#">Row, Column, or Cell Reference Arguments</a> .
function	An embedded function.  See <a href="#">Mathematical Functions</a> .

### Examples:

Return the value 20:

```
Avg(10,30,20)
```

Return the average of all numbers that are part of three aggregate rows:

```
Average(row[1],row[6],row[8])
```

Calculate the average of three aggregate columns; E, G, and I. (The calculation produces three numbers, then calculates the average of the three numbers.)

```
Avg(column[E]avg,column[G]avg,column[I.avg])
```

Calculate the average of two columns; E on the current grid and E on grid2. (The calculation includes all expanded columns.)

```
Avg(column[E],grid2column[E])
```

Calculate the average of aggregate row 3 and divide the average by 100:

```
Avg(row[3])/100
```

## AverageA

AverageA is a mathematical function that returns the average of a group of numeric values, rows, columns, or cells. AverageA includes #missing and #error cells, which are treated as zero values when obtaining the average.

---

**Note:**

#missing and #error are included only for rows or columns that are not suppressed.

---

**Syntax:**

```
AverageA( arguments )
```

or

```
AvgA( arguments )
```

where *arguments* is one or more of the following values:

Argument	Description
numeric	A numeric value. For example, AverageA( 10 , 20 , 30 ) returns the value 20.  Numeric values can include decimals and negative values. See <a href="#">Numeric Arguments</a> .
row, column, or cell reference	A pointer to a row, column, or cell within a grid. You can specify references in several ways. The reference syntax is: <i>GridName.GridElement[segment(range)].Property</i> . See <a href="#">Row, Column, or Cell Reference Arguments</a> .  For example, AvgA( Grid1 . row[ 4 ( 3 : 5 ) ] ) returns the average of grid1, row segment 4, range 3 through 5.
function	An embedded function. See <a href="#">Mathematical Functions</a> .

**Example:**

If a grid has four rows with the values 10, 20, 30, and #error, the following formula in the 5th row returns the value 15:

```
AverageA([1:4])
```

## CountA

CountA is a mathematical function that returns the number of values in a group of numeric values, rows, columns, or cells. CountA includes #missing and #error cells when obtaining the count only for rows or columns that are not suppressed.

**Syntax:**

`CountA(arguments)`

where *arguments* is one or more of the following values:

Argument	Description
numeric	A numeric value. For example, <code>CountA(10, 20, 30, 50)</code> returns the value 4.  Numeric values can include decimals and negative values. See <a href="#">Numeric Arguments</a> .
row, column, or cell reference	A pointer to a row, column, or cell within a grid.  You can specify references in several ways. The reference syntax is: <code>CountA(GridName.GridElement[segment(range)].property)</code> . See <a href="#">Row, Column, or Cell Reference Arguments</a> .
function	An embedded function.  See <a href="#">Mathematical Functions</a> .

**Examples:**

If a grid has four rows with the values 10, 20, 30, and #error, the following formula in the 5th row returns the count of four rows:

```
CountA([1:4])
```

Return the count of four rows:

```
CountA(row[1], row[6], row[8] row[where data yields #error])
```

## Difference

`Difference` is a mathematical function that returns the absolute value of the difference of a numeric value, row, or column subtracted from another numeric value, row, or column.

**Syntax:**

`Difference(arg1, arg2)`

where *arg2* is subtracted from *arg1* and is one or more of the following values:

Argument	Description
numeric	A numeric value. For example, <code>Difference(3, 5)</code> returns the absolute value 2.  Numeric values can include decimals and negative values. See <a href="#">Numeric Arguments</a> .

Argument	Description
row, column, or reference	<p>A pointer to a row, column, or cell within a grid.</p> <p>You can specify references in several ways. The reference syntax is: <i>GridName.GridElement[segment(range)].Property</i>. See <a href="#">Row, Column, or Cell Reference Arguments</a>.</p> <p>The following example returns the difference of two rows on grid1 and grid2:</p> <pre>Difference(grid1.row[1], grid2.row[6])</pre>
function	<p>An embedded function.</p> <p>See <a href="#">Mathematical Functions</a>.</p>

---

**Note:**

Difference returns the absolute value of *arg2* subtracted from *arg1*, whereas the minus sign in subtraction negates a number.

---

**Examples:**

Return the absolute value of 8:

```
Difference(3,-5)
```

Calculate the difference of two aggregate columns:

```
Difference(column[E], column[G])
```

Calculate the difference of two columns that are located on different grids, grid1 and grid2:

```
Difference(grid1.column[E], grid2.column[E])
```

---

**Note:**

You can type the text label "Difference" or "Variance".

---

## Eval

Eval is a mathematical function that evaluates an expression. Use Eval as an embedded function argument to consolidate multiple expressions into one expression.

**Syntax:**

```
Eval(expression)
```

where *expression* is one or more of the following values:



Argument	Description
numeric	A numeric value. Numeric values can include decimals and negative values. See <a href="#">Numeric Arguments</a> .
row, column, or reference	A pointer to a row, column, or cell within a grid. References can be specified in several ways. The reference syntax is: <i>GridName.GridElement[segment(range)].Property</i> . See <a href="#">Row, Column, or Cell Reference Arguments</a> .
function	An embedded function. See <a href="#">Mathematical Functions</a> .
operators	Any of the supported arithmetic operators (+, -, *, /, ^, %).

**Example:**

Divide row 1 by row 2, and then round the data to four places:

```
Round(Eval([1]/[2]),4)
```

**Note:**

In this example, you must use EVAL to get the desired result. The following does not work: Round([1]/[2],4).

## Max

Max is a mathematical function that returns the maximum value in a group of numeric values, rows, columns, or cells.

**Syntax:**

```
Max(arguments)
```

where *arguments* is one or more of the following values:

Argument	Description
numeric	A numeric value. For example, Max(10,20,30) returns the value 30. Numeric values can include decimals and negative values. See <a href="#">Numeric Arguments</a> .
row, column, or cell reference	A pointer to a row, column, or cell within a grid. You can specify references in several ways. The reference syntax is: <i>GridName.GridElement[segment(range)].Property</i> . See <a href="#">Row, Column, or Cell Reference Arguments</a> .
function	An embedded function. See <a href="#">Mathematical Functions</a> .

**Examples:**

Return the maximum value in rows 1, 6, and 8:

```
Max(row[1], row[6], row[8])
```

Calculate the maximum of the sums of aggregate rows:

```
Max(row[1].sum, row[2].sum, row[3].sum)
```

## Min

Min is a mathematical function that returns the minimum value in a group of numeric values, rows, columns, or cells.

**Syntax:**

```
Min(arguments)
```

where *arguments* is one or more of the following values:

Argument	Description
numeric	A numeric value. For example, <code>Min(10, 20, 30)</code> returns the value 10.  Numeric values can include decimals and negative values. See <a href="#">Numeric Arguments</a> .
row, column, or cell reference	A pointer to a row, column, or cell within a grid.  You can specify references in several ways. The reference syntax is: <code>GridName.GridElement[segment(range)].Property</code> . See <a href="#">Row, Column, or Cell Reference Arguments</a> .
function	An embedded function.  See <a href="#">Mathematical Functions</a> .

**Examples:**

Return the minimum value in rows 1, 6, and 8:

```
Min (row[1], row[6], row[8])
```

Calculate the minimum of the sums of aggregate rows:

```
Min(row[1].sum, row[2].sum, row[3].sum)
```

## PercentofTotal

PercentOfTotal is a mathematical function that returns the result of a numeric value, row, column, or cell divided by another numeric value, row, column, or cell which is multiplied by 100.

**Syntax:**

```
PercentOfTotal (arg1, arg2)
```

where:

- *arg1* is a component of the running total (*arg2*), usually a row or column reference.

- *arg2* is the running total relative to *arg1*, usually a cell reference containing the grand total.
- *arg1* is divided by *arg2* with the result multiplied by 100. *Arg1* and *arg2* are one or more of the following values:

Argument	Description
numeric	A numeric value. For example, <code>PercentofTotal(100, 20)</code> returns the value 500. Numeric values can include decimals and negative values. See <a href="#">Numeric Arguments</a> .
row, column, or cell reference	A pointer to a row, column, or cell within a grid. You can specify references in several ways. The reference syntax is: <code>GridName.GridElement[segment(range)].Property</code> . See <a href="#">.Row, Column, or Cell Reference Arguments</a>
function	An embedded function. See <a href="#">Mathematical Functions</a> .

### Examples:

Return the value of 5 percent.

`PercentofTotal(20, 400)`

Divide the value of each cell in column A by the total market value in cell A5, multiply the result by 100, and display the resulting `PercentOfTotal` in column B.

`PercentOfTotal([A],[A,5])`

Using the above example, the following table shows the `PercentOfTotal` results in column B:

		A	B
1		Sales	% Total
2	Mkt1	60	20%
3	Mkt2	120	40%
4	Mkt3	120	40%
5	Total Mkt	300	100%

### Tip:

You enter the formula by clicking on the header for Column B and using the formula bar.

## Product

`Product` is a mathematical function that multiplies all numbers or references and returns the product.

**Syntax:**

`Product (arguments)`

where *arguments* is one or more of the following values:

Argument	Description
numeric	A numeric value. For example, <code>Product ( 2 , 20 )</code> returns the value 40. Numeric values can include decimals and negative values. See <a href="#">Numeric Arguments</a> .
row, column, or cell reference	A pointer to a row, column, or cell within a grid. You can specify references in several ways. The reference syntax is: <code>GridName.GridElement[segment(range)].property</code> . See <a href="#">Row, Column, or Cell Reference Arguments</a> .
function	An embedded function. See <a href="#">Mathematical Functions</a> .

**Example:**

Return 40:

`Product ( 2 , 20 )`

## Round

Round is a mathematical function that rounds a number up or down by the specified digits.

**Syntax:**

`Round (arg1, integer)`

where *arg1* is one or more of the following values:

Argument	Description
numeric	A numeric value. For example, <code>Round ( 81 . 3987 , 3 )</code> returns the value 81.399. Numeric values can include decimals and negative values. See <a href="#">Numeric Arguments</a> .
row, column, or cell reference	A pointer to a row, column, or cell within a grid. You can specify references in several ways. The reference syntax is: <code>GridName.GridElement[segment(range)].property</code> . See <a href="#">Row, Column, or Cell Reference Arguments</a> .
function	An embedded function. See <a href="#">Mathematical Functions</a> .

*Integer* specifies the number of digits to round the number:

- If *integer* is greater than zero, the number is rounded to the specified number of decimal places.
- If *integer* is zero, the number is rounded to the nearest integer.
- If *integer* is less than zero, the number is rounded to the left of the decimal point.

**Examples:**

Round to 3 decimals:

```
Round(3594.5567,3)=3594.557
```

Round to the nearest integer:

```
Round(3594.5567,0)=3595
```

Round to the thousand, (also known as scaling):

```
Round(3594.5567,-3)=4000
```

## Sum

Sum is a mathematical function that returns the summation of a group of numeric values, rows, columns, or cells.

**Syntax:**

```
Sum(arguments)
```

where *arguments* is one or more of the following values:

Argument	Description
numeric	A numeric value. For example, Sum(10,20,30) returns the value 60. Numeric values can include decimals and negative values. See <a href="#">Numeric Arguments</a> .
row, column, or cell referenc	A pointer to a row, column, or cell within a grid. You can specify references in several ways. The reference syntax is: <i>GridName.GridElement[segment(range)].property</i> . See <a href="#">Row, Column, or Cell Reference Arguments</a> .
function	An embedded function. See <a href="#">Mathematical Functions</a> .

**Examples:**

Return the value 30:

```
sum(10,20)
```

Return the sum of three rows:

```
sum(row[1],row[6],row[8])
```

Calculate the sum of three aggregate columns:

```
sum(column[E], column[G], column[I])
```

Calculate the sum of two columns that are located on different grids:

```
sum(grid1.col[E],grid2.colmn[E])
```

## Truncate/Truc

**Truncate** is a mathematical function that removes the specified number of digits from numeric values.

### Syntax:

```
Trunc(arg1, integer)
```

where *arg1* is one of the following values:

Argument	Description
numeric	A numeric value. For example, 234.567. See <a href="#">Numeric Arguments</a> .
row, column, or cell reference	A pointer to a row, column, or cell within a grid. You can specify references in several ways. The reference syntax is: <i>GridName.GridElement[segment(range)].property</i> . See <a href="#">Row, Column, or Cell Reference Arguments</a> .
function	An embedded function. See <a href="#">Mathematical Functions</a> .

*Integer* specifies the number of digits to remove:

- A positive *integer* determines the number of digits to the right of the decimal point.
- A zero (0) *integer* returns the integer located to the left of the decimal point.
- A negative *integer* indicates the number of digits to the left of the decimal point.

### Examples:

The following statement uses a positive integer of 2. The first two digits to the right of the decimal point remain, and the following digit is removed:

```
Trunc(234.567, 2) = 234.56
```

The following statement uses a zero (0) integer. All digits to the right of the decimal point are removed:

```
Trunc(234.567, 0) = 234
```

The following statement uses a negative integer of -2. All digits to the right of the decimal point are removed and the last 2 digits of the integer are truncated.

```
Trunc(234.567, -2) = 200
```

---

**Note:**

Any formatting previously applied to a cell, column, or row is maintained when you use the `Trunc` function. The following example shows the results of a `Trunc` function where the cell value was previously formatted to display three decimal places: `Trunc(234.567, 0) = 234.000`

---

## Text Functions

### Related Topics:

[About Text Functions](#)  
[Annotation](#)  
[CalcStatus](#)  
[CellText](#)  
[Date](#)  
[DataSource](#)  
[DPDescription](#)  
[DPJustification](#)  
[DPNotesAndAttachments](#)  
[Footnote](#)  
[GetCell](#)  
[GetHeading](#)  
[GridDimension](#)  
[HFMCurrency](#)  
[ListofCellDocuments](#)  
[MemberAlias](#)  
[MemberDescription](#)  
[MemberName](#)  
[MemberProperty](#)  
[MemberQualifiedName](#)  
[Page](#)  
[PageCount](#)  
[PlanningAnnotations](#)  
[ProcessManagementStatus](#)  
[ReportAuthor](#)  
[ReportCreated](#)

[ReportDesc](#)  
[ReportFolder](#)  
[ReportModified](#)  
[ReportModifiedBy](#)  
[ReportName](#)  
[ReportRunBy](#)  
[RetrieveValue](#)

## About Text Functions

Text functions return report information, such as the report name or the report description. You use text functions in grids or in text objects.

### Text Function Considerations

- Enclose text functions in braces:  
`<<TextFunction (arguments)>>`
- You can use spaces between arguments.
- All arguments are enclosed in quotes, except for numeric arguments.  
For example, the parameter "NYC, New York" in the function  
`<<MemberName("Grid1", NYC, New York)>>` should be restated as  
`<<MemberName("Grid1", "NYC, New York")>>`.
- Arguments related to date formatting are case-sensitive.
- To apply text functions to a grid, create a text row or column, or a heading cell, and then insert the text function.

### Using the Current/Cur Keyword in a Text Function

You can use the `current` keyword with certain text functions to make the formulas more dynamic, more useful, and less redundant. The `current` keyword can replace required parameters in text functions. Hard-coded parameters produce the same results, whereas the `current` keyword can produce dynamic values. For example, when you use `current` for the Page parameter in a multiple page grid, it produces the value for each page.

You can use any form of the `current` keyword; `current`, or `cur`. `Current` keywords are not case-sensitive.

---

---

**Note:**

The `current` keyword is supported in a text object only when using the following text functions: `MemberName`, `MemberAlias`, and `MemberDescription`, where `current` specifies the Page dimension parameter. However, the Grid name, Row, and Column must be defined, where applicable, and cannot use the `current` keyword.

---

---

### Example 1:



In the `GetCell` function, many of the parameters are or may be relative to the current cell in which the function is entered. Therefore, the `current` keyword can be applied to this function. The `GetCell` function uses the following syntax:

```
<<GetCell ("GridName", Row, Column, Page)>>
```

In the following example, the hard-coded parameters for `GetCell` return the same cell value of Grid 1, cell 1A, page 1 across multiple pages:

```
<<GetCell ("Grid1", 1, A, 1)>>
```

The next example uses the `current` keyword with the `GetCell` function. The cell where the function is entered displays different values for each page. Notice that the `current` keyword is also applied to the grid name. If the grid name is changed, the text formula is still correct.

```
<<GetCell ("current", 1, current, current)>>
```

### Example 2

When you use the `current` keyword in a cell that expands, the results are relative to the expanded cell.

The following example uses `GetCell` functions in an expanded cell (Column A expands to columns Qtr1, Qtr2, Qtr3 and row 1 expands to rows East and West). Text Row 1 uses the `current` keyword for the Column parameter; Text Row 2 uses a hard-coded value for the Column parameter.

Name	Description
.	Qtr1, Qtr2, Qtr3
East, West	#
Text Row 1	<<GetCell(cur, 1, cur, cur)>>
Text Row 2	<<GetCell(current, 1, A, 1)>>

The results are displayed in the following table.

Name	Quarter 1	Quarter 2	Quarter 3
East	5,120	4,502	7,304
West	3,405	2,300	4,462
Text Row 1	5,120	4,502	7,304
Text Row 2	5,120	5,120	5,120

- Text Row 1 uses the `current` keyword for the Column parameter, which results in the update of the current column of each expanded cell (Qtr1, Qtr2, Qtr3). Also, because the `current` keyword is used for the Page parameter, the values in Text Row 1 update each page relative to the current page of the grid.
- Text Row 2 uses a hard-coded value for the Column parameter (A), which results in the same value of 5,120 for all quarters. A hard coded reference to a Column parameter returns the same top left value of the column and row.

**Table 11-5 Text Functions that Support the Current Keyword**

Text Function	Example
<pre>&lt;&lt;DataSource("GridName.Axis[ID]", InfoType)&gt;&gt;</pre> <p>Parameters where applicable:</p> <ul style="list-style-type: none"> <li>GridName: supported in all cells</li> <li>InfoType: not applicable</li> </ul>	<pre>&lt;&lt;DataSource(current, "App")&gt;&gt;</pre> <hr/> <p><b>Note:</b> The current grid name is used.</p> <hr/>
<pre>&lt;&lt;GetCell("GridName",Row,Col,Page)&gt;&gt;</pre> <p>Parameters where applicable:</p> <ul style="list-style-type: none"> <li>GridName: supported in all cells</li> <li>Row: supported in all cells</li> <li>Col: supported in all cells</li> <li>Page: supported in all cells</li> </ul>	<pre>&lt;&lt;GetCell(cur, 1, cur, current)&gt;&gt;</pre> <hr/> <pre>&lt;&lt;GetCell(cur, 1(3), cur, current)&gt;&gt;</pre> <hr/> <p><b>Note:</b> The value from the third (expanded) row of row 1 is shown.</p> <hr/> <pre>&lt;&lt;GetCell(cur, cur, A, current)&gt;&gt;</pre> <pre>&lt;&lt;GetCell(cur, cur, A(B), current)&gt;&gt;</pre> <hr/> <p><b>Note:</b> The value from the second (expanded) column of column A would be shown.</p> <hr/>
<p>Use the following in a data row or column heading:</p> <pre>&lt;&lt;MemberName("DimName")&gt;&gt;</pre> <p>Use the following in a non-data row or column heading:</p> <pre>&lt;&lt;MemberName("GridName",Row/Col/Page,"DimName")&gt;&gt;</pre> <p>Use the following parameter where applicable: DimName: Heading cells only</p>	<pre>&lt;&lt;MemberName(current)&gt;&gt;</pre> <pre>&lt;&lt;MemberName("current", Row/Col/Page,"current")&gt;&gt;</pre> <hr/> <p><b>Note:</b> Returns the name of the member of the data row, column, or page that corresponds to the dimension where the heading cell is located. This can be used with the &lt;&lt;MemberDimension&gt;&gt; function to create custom headings for a grid.</p> <hr/>
<pre>&lt;&lt;CalcStatus("GridName",Row,Col,Page)&gt;&gt;</pre> <hr/> <p><b>Note:</b> The parameters allowing the current keyword are highlighted in bold.</p> <hr/>	<pre>&lt;&lt;CellText("GridName", Row, Column, Page)&gt;&gt;</pre> <hr/> <pre>&lt;&lt;CellText("GridName", Row, Column, Page, MemberOverride)&gt;&gt;</pre> <hr/>

**Table 11-5 (Cont.) Text Functions that Support the Current Keyword**

Text Function	Example
<code>&lt;&lt;GridDimension("GridName","Axis",index)&gt;&gt;</code>	<code>&lt;&lt;MemberAlias("DimName")&gt;&gt;</code>
<b>Note:</b> The parameters allowing the current keyword are highlighted in bold.	<code>&lt;&lt;MemberAlias("GridName", "DimName")&gt;&gt;</code> <code>&lt;&lt;MemberAlias("GridName", Row Col Page, "DimName")&gt;&gt;</code> <code>&lt;&lt;MemberDesc("DimName")&gt;&gt;</code> <code>&lt;&lt;MemberDesc("GridName", "DimName")&gt;&gt;</code> <code>&lt;&lt;MemberDesc("GridName", Row Col Page, "DimName")&gt;&gt;</code> <code>&lt;&lt;MemberName("DimName")&gt;&gt;</code> <code>&lt;&lt;MemberName("GridName", "DimName")&gt;&gt;</code> <code>&lt;&lt;MemberName("GridName", Row Col Page, "DimName")&gt;&gt;</code> <code>&lt;&lt;MemberQualifiedName("DimName")&gt;&gt;</code> <code>&lt;&lt;MemberQualifiedName("GridName", "DimName")&gt;&gt;</code> <code>&lt;&lt;MemberQualifiedName("GridName", Row Col Page, "DimName")&gt;&gt;</code> <code>&lt;&lt;MemberProperty(DimensionName, Property)&gt;&gt;</code> <code>&lt;&lt;MemberProperty("GridName", DimensionName, Property)&gt;&gt;</code> <code>&lt;&lt;MemberProperty("GridName", Row Col Page, DimensionName, Property)&gt;&gt;</code>
<code>&lt;&lt;ProcessManagementStatus("GridName",Row,Column,Page)&gt;&gt;</code>	
<b>Note:</b> The parameters allowing the current keyword are highlighted in bold.	

**Table 11-5 (Cont.) Text Functions that Support the Current Keyword**

Text Function	Example
<pre>&lt;&lt;ListOfCellDocuments("GridName",FileName)&gt;&gt;</pre>	
<hr/> <b>Note:</b> The parameters allowing the current keyword are highlighted in bold. <hr/>	
<pre>&lt;&lt;GridDimension("GridName","Axis",Index)&gt;&gt;</pre>	<pre>&lt;&lt;GridDimension(cur,"Page",1)&gt;&gt;</pre>
Parameters, where applicable: <ul style="list-style-type: none"> <li>• GridName: supported in all cells</li> <li>• Axis: Heading cells only</li> <li>• Index: Heading cells only</li> </ul>	<pre>&lt;&lt;GridDimension(cur,cur,cur)&gt;&gt;</pre> <hr/> <b>Note:</b> The dimension name corresponding to the heading cell is shown. <hr/>
<pre>&lt;&lt;GetHeading("GridName",Page,Ref,Offset)&gt;&gt;</pre>	<pre>&lt;&lt;GetHeading(cur, cur, A, " - ")&gt;&gt;</pre>
<pre>&lt;&lt;GetHeading("GridName",Page,Ref,"Delim")&gt;&gt;</pre>	<pre>&lt;&lt;GetHeading(cur, cur, 1, " - ")&gt;&gt;</pre> <hr/> <b>Note:</b> In the above examples, all headings in column A and row 1 are shown for the current page. <hr/>
Parameters where applicable: <ul style="list-style-type: none"> <li>• GridName: supported in all cells</li> <li>• Page: supported in all cells</li> <li>• Ref: supported for in all cells, but should not be used in heading cells*</li> <li>• Offset: Heading cells only</li> <li>• Delim: not applicable</li> </ul>	<pre>&lt;&lt;GetHeading(cur, cur, A, cur)&gt;&gt;</pre> <hr/> <b>Note:</b> The heading in column A is shown for the dimension that corresponds to where the heading cell with the formula is located. <hr/>
	<pre>&lt;&lt;GetHeading(cur, cur, cur, " - ")&gt;&gt;</pre> <hr/> <b>Note:</b> If used within a row text cell, the result is all of the headings in the current column separated by a " - ". This allows users to repeat column headings after a manual page break. <hr/>

**Table 11-5 (Cont.) Text Functions that Support the Current Keyword**

Text Function	Example
<p>*Use of the current keyword for the parameter “reference” is limited. The current keyword cannot be used in the GetHeading function when it is entered as a “custom heading” in a row or column because circular reference is created. You can use the current keyword as the third parameter within a cell that is part of a text row or column which is not in the heading area of the grid. For example, if you add the following formula in cell A3 where row 3 is a text row: &lt;&lt;GetHeading(cur,cur,cur,1)&gt;&gt;, the result is the first heading of column A. You can use the GetHeading function within a heading cell. However, the reference parameter should not use the current keyword. For example, when you enter in the heading cell of column B &lt;&lt;GetHeading(cur,cur,A,cur)&gt;&gt;, the column A heading is returned.</p>	

### Using Text Functions to Retrieve Decision Package Information

Oracle Hyperion Public Sector Planning and Budgeting decision packages consolidate financial information and supporting justification for a specific action or proposed policy. Decision packages present requests for funding along with narrative justification and supporting information that may be submitted through the review and approval process. For example, Public Safety Improvements could be a municipal decision package that contains budget requests defined by the Fire Department and the Police Department that present the line item costs and total amount involved to fulfill the decision package.

Decision packages are created at the application level in Oracle Hyperion Planning for a planning unit hierarchy (a combination of scenario, entity, and version member). Each decision package can have multiple budget requests, and you can retrieve the description, justification, and notes and attachments at the decision package level or at the budget request level.

You can use the following text functions in Oracle Hyperion Financial Reporting Studio to retrieve decision package information such as descriptions, justifications, and notes and attachments to use on financial reports. Where applicable, you can insert these functions into a text box; a grid's text row, column, or cell; or a custom heading.

- [DPDescription](#)
- [DPJustification](#)
- [DPNotesAndAttachments](#)

These functions can be used to retrieve decision package information from either a BSO cube or an ASO cube in Planning. Unlike BSO cubes, decision package items are available as dimensions in ASO cubes. When you design reports in Financial Reporting Studio using ASO cubes, the decision package items are available as dimensions to use in a grid row, a column, a page, or a user POV.

---

#### Note:

For information about adding decision packages to Financial Reporting books, see "Adding Decision Package Reports to Financial Reporting Books" in the *Oracle Hyperion Financial Reporting User's Guide*. For detailed information about decision packages, see the *Oracle Hyperion Public Sector Planning and Budgeting User's Guide*.

---

## Annotation

Annotation returns the requested information about an annotation within a grid object. You can define what information to return.

### Syntax:

```
<<Annotation("GridName", Row, Col, Page, Attributes, Reference, Attachments)>>
```

```
<<Annotation("GridName", Row, Col, Page)>>
```

```
<<Annotation("GridName", Row, Col, Page, Attributes, Reference)>>
```

```
<<Annotation("GridName", Row, Col, Page, Attributes, Attachments)>>
```

```
<Annotation("GridName", AllRows, AllCols, Page, Attributes, Attachments)>>
```

where:

- *GridName* is the name of the grid containing the annotations. The "current" keyword is supported when Attribute is used in a grid's text cell or custom heading.
- *Row* is the row number on the grid. The "current" keyword is supported in when Attribute is used in a grid's text cell or custom heading.

---

---

**Note:**

To select all rows, *row* can be replaced with the keyword *AllRows*.

---

---

- *Col* is the column reference (letter) on the grid. The "current" keyword is supported when Attribute is used in a grid's text cell or custom heading.

---

---

**Note:**

To select all Columns, *Col* can be replaced with the keyword *AllCols*.

---

---

- *Page* is a numeric value representing the index of member combinations on all page dimensions of the grid. The first page dimension combination in a grid has an index of 1, the second page dimension combination has an index of 2, and so on.
- *Attributes* identify the information to be returned from the annotation. They may include the keyword **All** (default value) or a combination of one or more of the following keywords: **Title & Description & Author & Date & Category**. Attribute keywords can be arranged in any order of output. Each attribute must be separated with an ampersand (&).
- *Reference* is a keyword noting which annotations will be returned, where:.
  - **All** (default) returns the initial annotation and all replies.
  - **Top <n>** returns the initial annotation and first <n> replies.
  - **Bottom <n>** returns the initial annotation and the last <n> replies. The initial annotation is always shown and the number <n> does not include the initial annotation.

- `BottomOnly <n>` returns the last <n> replies. The initial annotation shown for 4 or less <n> replies; the initial annotation with 5 or more <n> replies is not shown.
- `First` returns the initial annotation only.
- `Replies` returns all replies. The initial annotation is not shown.
- *Attachments* is a boolean (true/false) value indicating whether attachments associated with the annotation should print with the report where:
  - `True` means that attachments will print at the end of the report.
  - `False` means that no attachments will print.

### Examples:

```
<<Annotation("Grid1", cur, A, cur, All, All, true)>>
<<Annotation("Grid1", cur, A, cur, Title & Description & Author
& Date & Category, Top 10, true)>>
<<Annotation("Grid10", 284, AB, cur, Title & Description & Date
& Category, Bottom 10, false)>>
<<Annotation("Grid1", cur, A, cur, Title & Description & Author,
BottomOnly 4, false)>>
<<Annotation("Grid Name", 1, A, 1, All)>>
<<Annotation("Grid Name", "AllRows", "AllCols", 1, All)>>
<<Annotation("Grid Name", 1, A, 1, All, First)>>
<<Annotation("Grid Name", 1, cur, cur, All, Replies)>>
<<Annotation("Grid Name", 1, cur, cur)>>
<<Annotation("Grid Name", 1, cur, cur, Desc, Replies)>>
<<Annotation(cur, cur, A, cur, Desc)>>
<<Annotation(cur, 3, ABC, cur, title & Desc, true)>>
<<Annotation("folder1\folder2\Grid2", 3, A, cur, Title &
Description, true)>>
<<Annotation("current", 294, AB, cur, Title & Description, Top
19)>>
<<Annotation(current, 39, AB, cur, Title & Description & Author,
Bottom 40)>>
```

### Behavior of Annotations in Text Boxes

The behavior of annotations in grid text rows and text boxes when using the "cur" keyword is different.

- For text rows, you can use the "cur" keyword.  
For example, `<<Annotation("Grid1", 1, A, cur, All, All, true)>>`
- For text boxes, the "cur" keyword does not return anything. As a result, you would enter `<<Annotation("Grid1", 1, A, 1, All, All, true)>>`

## CalcStatus

CalcStatus returns the calculation status of a cell for a Oracle Hyperion Financial Management database connection. You can use CalcStatus in report headers, rows, and columns.

---

---

**Note:**

CalcStatus supports the current keyword.

---

---

**Syntax:**

```
<<CalcStatus("GridName", Row, Col, Page)>>
```

Argument	Description
<i>GridName</i>	Name of a grid. This value must be enclosed in quotation marks
<i>Row</i>	Numeric value representing the row number of the grid. The first row in a grid has an index of 1, the second row has an index of 2, and so on.
<i>Col</i>	Letter representing the column ID of the grid. The first column ID is A, the second column ID is B, and so on.
<i>Page</i>	Numeric value representing the page dimension index of the grid. The first page dimension in a grid has an index of 1, the second page dimension has an index of 2, and so on.

Oracle Fusion Forecast Management can return these calculation status values:

- OK
- OK - No data
- OK - System Changed
- Needs Subcalculate
- Needs Translation
- Needs Consolidation
- Needs Consolidation No Data
- Locked

**Example:**

Display the calculation status of the cell that is in row 21, column B on page 1 of Grid1:

```
<<CalcStatus("Grid1",21,B,1)>>
```



## CellText

CellText is a text function that retrieves the textual content from the following database connections:

The row, column, and page arguments apply to the intersection in a grid that contains the linked text or note.

### Syntax:

```
<<CellText("GridName", Row, Column, Page)>>
```

CellText can also provide an override of the grid's "natural" point of view (POV) to a member selection when a cell does not exist in a grid.

### Syntax:

```
<<CellText("GridName", Row, Column, Page, MemberOverride)>>
```

See [CellText Using MemberOverride](#) for details.

Argument	Description
<i>GridName</i>	Name of a grid. This value must be enclosed in quotation marks
<i>Row</i>	Numeric value representing the row number of the grid. The first row in a grid has an index of 1, the second row has an index of 2, and so on.
<i>Column</i>	Letter that represents the column of the grid. The first column in a grid has an index of A, the second column has an index of B, and so on.
<i>Page</i>	Numeric value representing the page dimension index of the grid. The first page dimension in a grid has an index of 1, the second page dimension has an index of 2, and so on.
<i>MemberOverride</i>	String of dimensions and corresponding member selections that override the CellText POV. See <a href="#">CellText Using MemberOverride</a> .
<i>AllRows/AllCols</i>	Keywords that allow for an all row or column reference. See <a href="#">CellText Using AllRows/AllCols</a> .

### Note:

If the row or column parameters refer to a segment that expands, the top-left expanded cell is used. You can refer to any expanded cell using the "range" notation.

### Example:

Create a report with linked text in the cell that is in row 21, column B of a grid and that is on the first page dimension.

```
<<CellText("mygrid", 21, B, 1)>>
```

**Tip:**

To view result-time rows and columns, select **View**, then **Row & Column Headers in Web Preview**, and then preview the report by clicking **Web Preview**.

**Note:**

CellText only supports the Current keyword when used in a grid cell; not in a text box object, header, or footer. See [Using the Current/Cur Keyword in a Text Function](#).

## CellText Using AllRows/AllCols

**Table 11-6** *CellText Examples Using AllRows/AllCols*

Example	Description
<code>&lt;&lt;CellText("Grid1",3,AllCols,1)&gt;&gt;</code>	Includes cell text that occurs on any column of row 3, page 1.
<code>&lt;&lt;CellText("Grid1",Curr,Allcols,1)&gt;&gt;</code>	Includes cell text that occurs on any column of the current row ("Curr"), page 1.
<code>&lt;&lt;CellText("Grid1",Curr,Allcols,Curr)&gt;&gt;</code>	Includes cell text that occurs on any column of the current row (Curr"), current page.
<code>&lt;&lt;CellText("Grid1",AllRows,C,1)&gt;&gt;</code>	Includes cell text that occurs on any row of column C, page 1.
<code>&lt;&lt;CellText("Grid1",AllRows,Allcols,2)&gt;&gt;</code>	Includes cell text that occurs on any cell on page 2. "Any cell" meaning any row/column since AllRows/AllCols is specified for both row and column.
<code>&lt;&lt;CellText("Grid1", AllRows, Allcols, Curr)&gt;&gt;</code>	Includes cell text that occurs on any cell on the current page.

## CellText Using MemberOverride

*MemberOverride* can consist of one or more dimensions. It uses the following format:

*DimensionName* = *MemberName*, *DimensionName* = *MemberName*

where:

*DimensionName* is the name of an override dimension.

*MemberName* is the name of the override member for the dimension.

Follow these guidelines when you specify member overrides:

- If you specify two or more member overrides, separate them with a comma (,) or a semicolon (;) and enclose each dimension and member name in quotation marks (" "). For example:  

```
"Entity"="Acme", "Period"="Q1"
```
- If you specify only one member override, do not include the separator character.

- Enclose dimension names and member names in quotation marks (" ") if they contain any of the following characters: ; , = ( ) < >.
- For a single member override, the parameter may be enclosed in quotation marks (" "). For example, `CellText` is properly evaluated if you use the following member override statement:

```
"Scenario=Budget"
```

**Table 11-7 CellText Examples Using MemberOverride**

Example	Description
<code>&lt;&lt;CellText(cur, cur, A, cur)&gt;&gt;</code>	Existing syntax with no dimension override
<code>&lt;&lt;CellText(cur, cur, A, cur, Scenario=Budget)&gt;&gt;</code>	New syntax with one dimension override
<code>&lt;&lt;CellText("Grid Name", 1, A, current, Value = "Entity Currency")&gt;&gt;</code>	One dimension override using quotation marks in the member name
<code>&lt;&lt;CellText("Grid Name", 1, A, cur, Value = Entity Currency)&gt;&gt;</code>	No quotation marks in the member name that contains a space
<code>&lt;&lt;CellText("Grid Name", 1, A, cur, "Value=\$USD" = Entity Currency)&gt;&gt;</code>	Quotation marks surrounding dimension name that contains an equal sign
<code>&lt;&lt;CellText(Grid1, 1, cur, cur, Value = Entity Currency, Scenario=Actual)&gt;&gt;</code>	Two-dimension override that uses a comma separator
<code>&lt;&lt;CellText(Grid1, 1, cur, cur, Value = Entity Currency; Scenario=Actual)&gt;&gt;</code>	Two-dimension override that uses a semicolon separator
<code>&lt;&lt;CellText("Current", 34, BB, cur, "Value"= Entity Currency, Scenario=Actual; Period = Qtr3)&gt;&gt;</code>	Three-dimension override that uses comma and semicolon separators
<code>&lt;&lt;CellText(cur, 1(3), A(B), cur, 300 = ABC , "Americas, Value=(in \$USD);" = "Entity Currency (USD)" , Scenario=Actual)&gt;&gt;</code>	Four-dimension override

### LabeledCellText

`LabeledCellText` retrieves the textual content from a Oracle Hyperion Financial Management database connection through their ADM driver.

#### Syntax:

```
LabeledCellText("GridName", Row, Column, Page, "Label",
[Attachments], [MemberOverride])
```

Argument	Description
<i>GridName</i>	Name of a grid. This value must be enclosed in quotation marks.

Argument	Description
<i>Row</i>	Numeric value representing the row number of the grid. The first row in a grid has an index of 1, the second row has an index of 2, and so on. The ALLROWS and CUR keywords are supported.
<i>Column or Col</i>	Letter representing the column of the grid. The first column in a grid has an index of A, the second column has an index of B, and so on. The ALLCOLS and CUR keywords are supported.
<i>Page</i>	Numeric value representing the page dimension index of the grid. The first page dimension in a grid has an index of 1, the second page dimension has an index of 2, and so on.
<i>Label</i>	Identifies the Financial Management cell label to which the desired cell texts (and optionally attachments) correspond. This value must be enclosed in quotation marks.
<i>Attachments</i>	(Optional) A true or false value that indicates whether attachments associated with the cell text should be retrieved.
<i>MemberOverride</i>	(Optional) String of comma separated dimensions and corresponding member selections that override the active POV. See <a href="#">CellText Using MemberOverride</a> .

**Examples:**

```
LabeledCellText("Grid1", CUR, A, 1, "MATURITYDATE")
LabeledCellText("Grid1", 3, CUR, 1, "RATING", TRUE)
LabeledCellText("Grid1", 3, CUR, 1, "RATING", TRUE,
Year=Quarter1)
```

**Date**

Date is a text function that returns the date and time that an online report is populated with data, or the date and time that a snapshot report is saved. The date and time is retrieved from the report server and corresponds to the country in which the report server is located. You can use Date in a text box, text cell, or a row or column heading.

---

**Note:** The date and time format vary by locale. The examples in this topic are examples for the US.

---

**Syntax:**

```
<<Date("format", "TimeZoneId")>>
```

Argument	Description
<i>format</i>	Defaults to the user preference for date/time. Valid values are those accepted by Java SimpleDateFormat, or "user" or empty ("user"). Date and time <i>format</i> characters are case-sensitive.

Argument	Description
<i>TimeZoneId</i>	<p>Defaults to user preferences for the time zone. Valid values are those accepted by Java <code>TimeZone.getTimeZone()</code>, or the server time zone. For example, for <code>TimeZone.getTimeZone()</code> to specify the east coast, enter: "America/New_York".</p> <p>When using <i>TimeZoneId</i>, enclose the <i>format</i> parameter within quotation marks. This applies only when <i>TimeZoneId</i> is indicated. You do not need to update reports prior to the <i>TimeZoneId</i> enhancement.</p>

**Table 11-8 Date and Time Format Characters**

Format Characters	Meaning	Data Type	Example
G	era designator	text	AD
M	month in year	text or number	If the month is July: M displays: 7 MM displays: 07 MMM displays: Jul MMMM displays: July
d	day in month	number	10
h	hour in am/pm (1-12)	number	11
H	hour in day (0-23)	number	22
m	minute in hour	number	30
s	second in minute	number	25
S	millisecond	number	978
E	day in week	text	E: Tue EE: Tuesday
D	day in year	number	189
F	day of week in month	number	<<Date("dd-MMM-yy 'is the' F 'th' E 'of' 'MMM')>> displays: 24-Dec-02 is the 4th Tue of Dec
w	week in year	number	27
W	week in month	number	2
a	am/pm marker	text	PM
k	hour in day (1-24)	number	23
K	hour in am/pm (0-11)	number	If the time is 3:37PM: 3
z	time zone	text	Pacific Standard Time

**Table 11-8 (Cont.) Date and Time Format Characters**

Format Characters	Meaning	Data Type	Example
y	year	number	2002,02
'	literal text	text	<<Date(" D'the day of 'yyyy'")>> displays: 105th day of 2002
''	two single quotes to produce one single quote	text	<<Date("k:mm 'O''Clock' a'")>> displays: 6:15 O'Clock PM

---

**Note:**  
Use 2 single quotation marks to produce a single quote or an apostrophe as in O'Clock (O''Clock).

---

Considerations when using *format* characters:

- The number or count of *format* characters determines the format:
  - For text, less than four pattern letters means use a short or abbreviated form, if it exists.
  - Four or more pattern letters means use full form.
  - M or MM means use the month as a number.
  - MMM means use the three-letter abbreviation for the month.
  - MMMM means use the full name of the month.

For example, if the date is April 24:

```
<<Date("dd-M-yy")>> displays 24-4-02
```

```
<<Date("dd-MM-yy")>> displays 24-04-02
```

```
<<Date("dd-MMM-yy")>> displays 24-Apr-02
```

```
<<Date("dd-MMMM-yy")>> displays 24-April-02
```

- For numbers, the number of pattern letters is the minimum number of digits. Shorter numbers are padded with zeros. Year is a special case. If you use "yy", the last two digits of the year are displayed, but if you use "yyyy," the four-digit year is displayed.

For example, if the month is February:

```
<<Date("MM-yyyy")>> displays 02-2002
```

- All upper and lower case alphabet characters are considered patterns, regardless of whether they are designated *format* characters.

- Enclose literal text within single quotation marks. To use a single quotation mark in literal text, enclose the text within single quotes and use two single quotes for the apostrophe.

For example, the format to print 4 o'clock is:

```
<<Date("hh 'o''clock' ")>>
```

### Examples:

Date Format	Result
<code>&lt;&lt;Date("d/M/yy")&gt;&gt;</code>	23/3/02
<code>&lt;&lt;Date("d-MMM-yy")&gt;&gt;</code>	23-Mar-02
<code>&lt;&lt;Date("EEEE, MMMM dd, yyyy")&gt;&gt;</code>	Tuesday, March 23, 2002
<code>&lt;&lt;Date("h:mm:ss a")&gt;&gt;</code>	12:52:05 PM
<code>&lt;&lt;Date("h:mm:ss a zzzz")&gt;&gt;</code>	12:52:05 PM Eastern Standard Time
<code>&lt;&lt;Date("EEEE, MMMM dd, yyyy G 'time:' h:mm:ss a zzzz")&gt;&gt;</code>	Tuesday, March 23, 2002 AD time: 12:52:05 PM Eastern Standard Time
<code>&lt;&lt;Date("hh 'o''clock' a, zzzz")&gt;&gt;</code>	12:00 PM, Eastern Standard Time

#### Note:

You must use two single quotation marks to produce one single quotation mark in the text of your formatted result.

## DataSource

DataSource is a text function that returns the application name, database, or alias table name of a grid. Use DataSource in a text box, text cell, or a row or column heading.

### Syntax:

```
<<DataSource("GridName.Axis[ID]",InfoType)>>
```

Argument	Description
<i>GridName</i>	(Required) Any grid in a report, enclosed in quotes.
<i>Axis[]</i>	(Optional) A pointer to a design segment of the grid. Axis can be one of the following keywords: row, col, or column, and it is not case-sensitive. For example, <code>&lt;&lt;DataSource("Grid1.Row[1]",DB)&gt;&gt;</code> When Axis is not provided, the grid's default information is returned. Use Axis when a grid has multiple database connections.

Argument	Description
<i>ID</i>	(Required if <i>Axis</i> is used) Indicates the design-time, row number, or column letter from which the database connection information is retrieved. If <i>ID</i> points to an invalid or nonexistent row or column ID, the grid default settings are used. In addition, if a grid does not have a secondary database connection, the grid default settings are used.  For example,  <<DataSource( "Grid1.Col[A]" ,DB)>>
<i>InfoType</i>	(Required) One of the following keywords: <ul style="list-style-type: none"><li>• <i>App</i> returns the application name.</li><li>• <i>DB</i> returns the database name.</li><li>• <i>Alias</i> returns the alias table name. To return the alias, the grid must have the alias table enabled. By default, the alias table is disabled.</li><li>• <i>Name</i> returns the database connection name associated with the specified grid.</li></ul> <hr/> <b>Note:</b> "Server" is not supported as an argument for <i>InfoType</i> . for Oracle Hyperion Planning data sources. <hr/>

---

**Note:**

All arguments are case insensitive.

---

**Example 1:**

Insert data source information in your report:

```
<<DataSource("Grid1" , App)>>
```

**Example 2:**

Show the database name of the data source associated with the heading where the function was entered:

```
<<DataSource(cur , DB)>>
```

---

**Note:**

DataSource supports the current keyword. See [Using the Current/Cur Keyword in a Text Function](#).

---

## DPDescription

DPDescription is a text function that retrieves the description of a decision package member.



**Note:**

See [Using Text Functions to Retrieve Decision Package Information](#).

**Syntax:**

DPDescription("GridName", Row, Column, Page, DPLLevel/BRLevel)

Argument	Description
<i>GridName</i>	Name of a grid. This value must be enclosed in quotation marks.
<i>Row</i>	Numeric value representing the row number of the grid. The first row in a grid has an index of 1, the second row has an index of 2, and so on. The CUR keyword is supported.
<i>Column</i> or <i>Col</i>	Letter that represents the column of the grid. The first column in a grid has an index of A, the second column has an index of B, and so on. The CUR keyword is supported.
<i>Page</i>	Numeric value representing the page dimension index of the grid. The first page dimension in a grid has an index of 1, the second page dimension has an index of 2, and so on. The CUR keyword is supported.
<i>DPLLevel</i> / <i>BRLevel</i>	<i>DPLLevel</i> retrieves information about the description of a decision package. <i>BRLevel</i> retrieves information about the budget requests for a decision package.

**Examples:**

Retrieve a budget request description.

```
<<DPDescription("Grid1", 1, B, 2,BRLevel)>>
```

Retrieve a decision package description for the current page.

```
<<DPDescription("Grid1", 1, B, Curr,DPLLevel)>>
```

Retrieve a decision package description for the current row and column.

```
<<DPDescription("Grid1", Curr, Curr, 2,DPLLevel)>>
```

Create a decision package for a planning unit hierarchy that is a combination of Entity: "California", Scenario: "Budget", and Version: "Stage 4".

```
<<DPDescription("Grid1", 1, B, 2,DPLLevel)>>
```

If your grid has "California" in row 1, "FY13" in column B, and "Stage 4" on page 2, then the above syntax would retrieve decision package information in a text box or a grid's cell text only if you select "Budget" in the User POV and "Stage 4" in the pages.

**DPJustification**

DPJustification is a text function that retrieves decision package justification.

**Note:**

See [Using Text Functions to Retrieve Decision Package Information](#).

**Syntax:**

```
DPJustification("GridName", Row, Column, Page, DPLevel/BRLevel,
QuestionOption, CategoryName, QuestionName)
```

Argument	Description
<i>GridName</i>	Name of a grid. This value must be enclosed in quotation marks.
<i>Row</i>	Numeric value representing the row number of the grid. The first row in a grid has an index of 1, the second row has an index of 2, and so on. The CUR keyword is supported.
<i>Column</i> or <i>Col</i>	Letter that represents the column of the grid. The first column in a grid has an index of A, the second column has an index of B, and so on. The CUR keyword is supported.
<i>Page</i>	Numeric value representing the page dimension index of the grid. The first page dimension in a grid has an index of 1, the second page dimension has an index of 2, and so on. The CUR keyword is supported.
<i>DPLevel/</i> <i>BRLevel</i>	<i>DPLevel</i> retrieves information about the description of a decision package. <i>BRLevel</i> retrieves information about the budget requests for a decision package.
<i>QuestionOption</i>	One of the following values: <ul style="list-style-type: none"> <li>1—Retrieves only mandatory questions</li> <li>2—Retrieves only answered questions</li> <li>3—Retrieves only a specific category</li> </ul> <p>If you specify 1 to retrieve all mandatory questions or 2 to retrieve all answered question, then you do not need to specify a category name or a question name.</p> <p>To filter mandatory or answered questions to a specific category, you must specify them in category name or question name parameter.</p> <p>When you use option 2, you must provide category name and question name details, or enter blank text fields ("").</p> <p>When you use option 3, you must provide category name and question name details.</p>
<i>CategoryName</i>	(Optional) Category name details. Use only if <i>QuestionOption</i> is 2 or 3.
<i>QuestionName</i>	(Optional) Question name details. Use only if <i>QuestionOption</i> is 2 or 3

**Examples:**

Retrieve budget request justifications for all mandatory questions for Row 1, Column A, Page 1.

```
<<DPJustification("Grid1", 1, A, 1, BRLevel, 1)>>
```

Retrieve decision package justifications for all answered questions where the category name and question name match the given text for the "Current Row", "Column B", and "Page 1".

```
<<DPJustification("Grid2", CURR, B, 1, DPLevel, 2, "Monorail
construction" , "Justify the need for monorail on BG road" )>>
```

Retrieve decision package justifications for all answered questions for all category names and question names for the “Current Row”, “Column B”, and “Page 1”.

```
<<DPJustification("Grid2", CURR, B, 1,DPLLevel, 2, " " , " " )>>
```

Retrieve decision package justifications for all answered questions where the category name and question name match the given text.

```
<<DPJustification("Grid2", All, B, 1,DPLLevel, 2,"Monorail  
construction" ,"Justify the need for monorail on BG road")>>
```

## DPNotesAndAttachments

DPNotesAndAttachments is a text function that retrieves the notes and attachments associated with a decision package.

---

---

### Note:

See [Using Text Functions to Retrieve Decision Package Information](#).

---

---

### Syntax:

```
DPNotesAndAttachments("GridName", Row, Column, Page, DPLLevel/  
BRLevel Attributes, Range, Notes/Attachments)
```

Argument	Description
<i>GridName</i>	Name of a grid. This value must be enclosed in quotation marks.
<i>Row</i>	Numeric value representing the row number of the grid. The first row in a grid has an index of 1, the second row has an index of 2, and so on. The CUR keyword is supported.
<i>Column or Col</i>	Letter that represents the column of the grid. The first column in a grid has an index of A, the second column has an index of B, and so on. The CUR keyword is supported.
<i>Page</i>	Numeric value representing the page dimension index of the grid. The first page dimension in a grid has an index of 1, the second page dimension has an index of 2, and so on. The CUR keyword is supported.
<i>DPLLevel/ BRLevel</i>	<i>DPLLevel</i> retrieves information about the description of a decision package. <i>BRLevel</i> retrieves information about the budget requests for a decision package.
<i>Attributes</i>	<p>One of the following values:</p> <ul style="list-style-type: none"> <li>• All</li> <li>• Title</li> <li>• Author</li> <li>• Date</li> <li>• Text</li> </ul> <p>For example, you can use attributes to filter the notes and attachments submitted by an author or with a specific title.</p> <p><b>Note:</b> Arrange attributes in the preferred order of output, and separate each attribute with an ampersand (&amp;).</p>

Argument	Description
<i>Range</i>	Use the keywords <i>All</i> , <i>Top</i> , or <i>Bottom</i> to select a specific number of notes and attachments from the top or bottom of an output, or all notes and attachments. For example: <ul style="list-style-type: none"> <li>• <i>All</i> returns all annotations</li> <li>• <i>Top 5</i> returns the first five annotations</li> <li>• <i>Bottom 10</i> returns the last ten annotations</li> <li>• <i>Bottom 1</i> returns the last annotation</li> </ul>
<i>Notes/ Attachments</i>	One of the following values: <ul style="list-style-type: none"> <li>• 1—Notes</li> <li>• 2—Attachments</li> </ul>

**Example:**

Retrieve the top three decision packages notes for Row 1, Column B, and the current page.

```
<<DPNotesAndAttachments("Grid1", 1,B,CURR,DPLLevel,All,Top 3,1)>>
```

Retrieve all budget request notes for the current row, current column, and current page.

```
<<DPNotesAndAttachments("Grid1", Curr,Curr,Curr,BRLevel,All,All,1)>>
```

Retrieve all decision package attachments for the current row, current column and current page.

```
<<DPNotesAndAttachments("Grid1", Curr,Curr,Curr,DPLLevel,All,All,2)>>
```

**Footnote**

The **Footnote** text function, used in Text Objects only, returns the requested information about footnotes within a given report object. **Footnote** prints information about footnotes that occur in the object specified, or in all the objects in the report if the first parameter is set to "all". When a grid is referenced, all the footnotes on the grid are printed. The partial POV footnotes print first, followed by any full POV footnotes. The full POV footnotes print in order based on the location of the cell from top left to bottom right, page by page. More than one syntax is supported.

**Syntax:**

```
Footnote("ObjectName", Attributes, Reference, Attachments)
```

```
Footnote("ObjectName")
```

```
Footnote("ObjectName", Attributes)
```

```
Footnote("ObjectName", Attributes, Reference)
```

```
Footnote("ObjectName", Attributes, Attachments)
```

Argument	Description
<i>ObjectName</i>	Name of the report object containing the footnotes. If "all", the function returns all available footnotes from all objects in the report. The <i>ObjectName</i> parameter is updated when a grid object is renamed.
<i>Attributes</i>	<p>Information returned from the footnote. This may include the following keywords:</p> <ul style="list-style-type: none"> <li>All (default value)</li> <li>A combination of one or more of these keywords; Title, Description (Desc), Author, Date, Category</li> </ul> <p>The <i>Attributes</i> keywords may be arranged in the preferred order of output. Separate each attribute with an ampersand (&amp;).</p>
<i>Reference</i>	<p>Keyword denoting which annotations will be returned where:</p> <ul style="list-style-type: none"> <li>All (default value)—The initial annotation and all replies.</li> <li>Top &lt;n&gt;—The initial annotation and first replies. (The initial annotation is always shown, and the number does not include the initial annotation.)</li> <li>Bottom—The initial annotation and the last number of replies specified in <b>Bottom</b> &lt;n&gt;. (The initial annotation is always shown, and the number does not include the initial annotation.)</li> <li>BottomOnly &lt;n&gt;—The last replies. The initial annotation is not shown unless there are less replies than the BottomOnly &lt;n&gt; number. For example, BottomOnly 5 for an annotation with five replies does not show the initial annotation, but for an annotation with four replies, the initial annotation is shown.</li> <li>First—The initial annotation only.</li> <li>Replies—All the replies except the initial annotation.</li> </ul>
<i>Attachments</i>	<p>Boolean (true/false) value indicating whether any attachments should be printed with the footnote.</p> <ul style="list-style-type: none"> <li>True—Attachments print along with the report, at the end.</li> <li>False (default value)—Attachments do not print.</li> </ul>

### Examples:

```
<<Footnote("Grid1", All, All, true)>>
<<Footnote(All, All, All, true)>>
<<Footnote(All, All, Bottom 2, true)>>
<<Footnote(All, All, BottomOnly 20, true)>>
<<Footnote(All, All, First, true)>>
<<Footnote(All, All, Replies, true)>>
<<Footnote("Grid1", Title & Description & Author & Date &
Category, All, true)>>
<<Footnote("Text1", Title & Description & Date & Category, Top
10, false)>>
```

```
<<Footnote("Image1", Title & Description & Author, Bottom 4,
false)>>
<<Footnote("Text1", Title&Description&Author, BottomOnly 12)>>
<<Footnote("Image1", Title&Description&Author, First)>>
<<Footnote("Grid2", Title&Description&Author, Replies)>>
<<Footnote("Grid Name")>>
<<Footnote(all, All)>>
<<Footnote(cur, Description)>>
<<Footnote(cur, title & Description, true)>>
<<Footnote(cur, title & Author & Description, false)>>
<<Footnote("folder1\folder 2\Grid1", title &
Description&Category, Top20)>>
<<Footnote("folder1\folder 2\Grid1", title &
Description&Category, Bottom 2)>>
<<Footnote("folder1\folder 2\Chart2", title & Description, Top
20, False)>>
<<Footnote("current", title & Description, All)>>
<<Footnote("current", title & Description, first)>>
<<Footnote(All, Title&Description&author, Top 40, true)>>
```

## GetCell

GetCell is a text function that returns a data value from a grid.

---

---

**Note:**

When referencing a cell containing Oracle Hyperion Planning or Oracle Hyperion Financial Management data, GetCell returns a string value instead of a number.

---

---

**Syntax:**

```
<<GetCell("GridName", Row, Column, Page)>>
```

---

Argument	Description
<i>GridName</i>	Name of a grid or the Current keyword.
<i>Row</i>	Numeric value representing the row number of the grid. The first row in a grid has an index of one, the second row has an index of two, and so on. The Current keyword can also be used.
<i>Column</i>	Letter representing the column of the grid. The first column in a grid has an index of A, the second column has an index of B, and so on.

---

Argument	Description
<i>Page</i>	Numeric value representing the page dimension index of the grid. The first page dimension in a grid has an index of one, the second page dimension has an index of two, and so on.

Considerations when using `GetCell`:

- If the row or column parameters refer to a segment that expands, the top-left expanded cell is used. You can refer to any expanded cell using the “range” notation.
- `GetCell` only supports the `Current` keyword when used in a grid cell; not in a text box object, header, or footer. The `Current` keyword can be used in any of the parameters to make the function more dynamic. See [Using the Current/Cur Keyword in a Text Function](#).

### Example:

Set up a grid to show the net income for several quarters, and display this value in a text box that contains an executive summary of the report.

The grand total for the period was `<<GetCell("mygrid",21,B,1)>>`

The report is created with the value in the cell that is in row 21, column B of a grid, and is on the first page dimension.

## GetHeading

`GetHeading` is a text function that obtains text headings from a specified grid.

### Syntax:

```
<<GetHeading( "GridName" , Page, Reference, Offset)>>
```

```
<<GetHeading( "GridName" , Page, Reference, "Delimiter" )>>
```

Argument	Description
<i>GridName</i>	Name of a grid containing the heading to extract. The <code>Current</code> keyword can also be used.
<i>Reference</i>	View time reference of the heading to obtain. The <code>Current</code> keyword can also be used. See <a href="#">Row, Column, or Cell Reference Arguments</a> .
<i>Offset</i>	Number that represents the dimension in a row or column heading with more than one dimension.  A numeric offset returns a single dimension heading. For example, in a row heading with three dimensions, you can specify (starting from left to right) “1” to return the first dimension, “2” to return the second dimension, and “3” to return the third dimension.
<i>"Delimiter"</i>	Quoted string that separates all headings from the row or column. If you provide a delimiter, you obtain all headings in the reference, separated by the provided delimiter.

**Examples:**

Use `GetHeading` to return the following column and row headings.

		A(A)	A(B)	A(C)
		Actual	Actual	Actual
		Jan	Feb	Mar
1(1)	Georgia	112	67	73
1(2)	East	5,864	3,322	3,789
1(3)	Market	15,904	9,277	10,640

Use the syntax below to return the data in the previous sample grid:

GetHeading Example	Gets or Returns
<code>GetHeading("Grid1", 1,A,2)</code>	Jan
<code>GetHeading("Grid1", 1,A(B),2)</code>	Feb
<code>GetHeading("Grid1", 1,A(C),"-")</code>	Actual - Mar
<code>GetHeading("Grid1", 1,1,1)</code>	Georgia
<code>GetHeading("Grid1", 1,1(2),1)</code>	East
<code>GetHeading("Grid1", 1,1(2),2)</code>	<error> (it is an invalid reference)
<code>GetHeading("Grid1", 1,1(3),"-")</code>	Market

**Note:**

`GetHeading` only supports the `Current` keyword when used in a grid cell; not in a text box object, header, or footer. See [Using the Current/Cur Keyword in a Text Function](#).



## GridDimension

GridDimension is a text function that returns the name of a dimension on a grid's page, column, or row axis.

### Syntax:

```
<<GridDimension("GridName", "Axis", index)>>
```

Argument	Description
<i>GridName</i>	Name of a grid in the report enclosed in quotation marks. The <b>Current</b> keyword can also be used.
<i>Axis</i>	Grid axis where the dimension is placed: page, row, or column. Keywords must be used. The <b>Current</b> keyword can also be used.
<i>index</i>	Numeric value representing the offset or index of the dimension on the named axis. The first dimension on an axis has an index of one, the second dimension has an index of two, and so on.  You can use the <b>Current</b> keyword on a heading cell only (page, row, or column).

### Example:

A shared grid, named *mygrid*, has several dimensions on each row, column, and page axes, and displays the name of the first dimension on the row axis in a text box. Because the dimension may change in the future, you use the **GridDimension** function in the text box. Type the following in the text box:

This report is based on the <<GridDimension("mygrid","Row",1)>> dimension.

### Note:

See [Using the Current/Cur Keyword in a Text Function](#).

## HFMCurrency

HFMCurrency is a text function that returns the ID of the currency property for a cell in a Oracle Hyperion Financial Management database connection.

### Syntax:

```
<<HFMCurrency("GridName", Row, Col, Page)>>
```

Argument	Description
<i>GridName</i>	Name of a Financial Management grid. This value must be enclosed in quotation marks
<i>Row</i>	Numeric value representing the row index of the grid. The first row in a grid has an index of 1, the second row has an index of 2, and so on.

Argument	Description
<i>Col</i>	Letter representing the column of the grid. The first column in a grid has an index of A, the second column has an index of B, and so on.
<i>Page</i>	Numeric value representing the index of member combinations on all page dimensions of the grid. The first page dimension combination in a grid has an index of 1, the second page dimension combination has an index of 2, and so on.

A designer can map the string returned from Financial Management to another string by way of a properties file change. The mappings are defined in the JConsole file. For example, a designer might add these lines to HFM Entity Currency section:

```
EntityCurrency_USD=$
```

```
EntityCurrency_EUR=_
```

---

**Note:**

For information on JConsole, see the *Oracle Hyperion Financial Reporting Administrator's Guide*.

---

If USD is returned from Financial Management, the U.S. dollar symbol ( \$ ) is displayed; if EUR is returned from Financial Management, the European euro symbol ( \_ ) is displayed. The properties file includes these and other examples as comments.

**Example:**

Display the currency property for the cell that is in row 21, column B on page 1 of Grid1:

```
<<HFMCurrency("Grid1",21,B,1)>>
```

---

**Note:**

HFMCurrency only supports the Current keyword when used in a grid cell; not in a text box object, header, or footer. See [Using the Current/Cur Keyword in a Text Function](#).

---

## ListofCellDocuments

ListofCellDocuments is a text function that returns a list of all cell documents and their file attributes selected to be retrieved from cells within a report. You can use this function in a text box, text cell, or text cell heading.

---

**Note:**

ListofCellDocuments supports the Current keyword. See [Using the Current/Cur Keyword in a Text Function](#).

---

**Syntax:**

```
ListOfCellDocuments("GridName",FileName,Description)
```

Argument	Description
<i>GridName</i>	Name of a grid in the report.
<i>FileName</i>	Name of the cell document.
<i>Description</i>	Description of each cell document.

**Example:**

Two grids in a report are selected to print cell document information. In Grid1, the file name and description of the extracted cell documents are requested. In Grid2 only the file name is requested.

```
<<ListOfCellDocuments ("Grid1",FileName,Description)>>
```

```
<<ListOfCellDocuments ("Grid2",FileName)>>
```

The resulting list might look similar to the following, where Grid1 has two attached documents, and Grid2 has one attached document:

**Attached Documents:**

April Variance High Volume

April Variance Low Volume

May Variance

## MemberAlias

**Note:**

This function is available only with Oracle Essbase or Oracle Hyperion Planning details as the database connection.

MemberAlias is a text function. Based on the syntax used, it returns the alias of the member assigned to a dimension in the row, column, page, or Point of View (POV).

- The following syntax returns the alias of a row heading, column heading, or page. The syntax can be deployed from any heading cell, text cell, or text box object and can reference any grid in a current report.

```
<<MemberAlias("GridName", Row/Col/Page, "DimName")>>
```

- The following syntax returns the alias in a row heading, column heading, or page. The syntax can be deployed from any row, column, or page heading in a grid that is designated as a custom heading. To designate a custom heading, click the page, row heading, or column heading, and then select Custom Heading on the property sheet. You can add the function in the space provided below the custom heading.

```
<<MemberAlias("DimName")>>
```

- The following syntax returns the alias of a grid or user POV. The syntax can be deployed from any text cell or text box object and can reference any grid and corresponding POV in a current report.

```
<<MemberAlias( "GridName", "POV DimName")>>
```

Argument	Description
<i>GridName</i>	Name of the grid
<i>Row/Col/Page</i>	Numeric value representing the index of member combinations on all page dimensions of the grid. The first page dimension combination in a grid has an index of 1, the second page dimension combination has an index of 2, and so on.
<i>DimName</i>	Name of a dimension in the grid row, column, or page.
<i>POV DimName</i>	Name of the dimension on the grid or user POV.

### Examples:

Yield the alias Diet Root Beer, which is the alias that is assigned to the Product dimension in Grid1, column A:

```
<<MemberAlias( "Grid1", A, "Product" )>>
```

```
<<MemberAlias(current, A, "Product" )>>
```

Yield the alias for the Year dimension. The syntax is placed on the grid's custom heading:

```
<<MemberAlias( "Year" )>>
```

```
<<MemberAlias(current)>>
```

Yield the alias for the Scenario dimension for the POV associated with Grid1:

```
<<MemberAlias( "Grid1", "Scenario" )>>
```

```
<<MemberAlias(current, "Scenario" )>>
```

---

### Note:

MemberAlias only supports the Current keyword when used in a grid cell or in a text box object when specifying the Page dimension parameter. Other parameters (Grid, Row, Column) are not supported in a text box object, header, or footer. See [Using the Current/Cur Keyword in a Text Function](#).

---

## MemberDescription

---

### Note:

MemberDescription is available only with Oracle Hyperion Financial Management as the database connection

---

MemberDescription is a text function. Based on the syntax used, it returns the description of the member assigned to a dimension in the row, column, page, or Point of View (POV).

- The following syntax returns the description of a row heading, column heading, or page. The syntax can be deployed from any heading cell, text cell or text box object and can reference any grid in a current report.

```
<<MemberDescription("GridName", Row/Col/Page, "DimName")>>
```

- The following syntax returns the description in a row heading, column heading, or page. The syntax can be deployed from any row, column, or page heading in a grid that is designated as a custom heading. To designate a custom heading, click the page, row heading or column heading, and then select Custom Heading on the property sheet. You can add the function in the space provided below the custom heading.

```
<<MemberDescription("DimName")>>
```

- The following syntax returns the description of a grid or user POV. The syntax can be deployed from any text cell or text box object and can reference any grid and corresponding POV in a current report.

```
<<MemberDescription("GridName", "POV DimName")>>
```

Argument	Description
<i>GridName</i>	Name of the grid.
<i>Row/Col/Page</i>	Numeric identifier of the row, the alphabetical identifier of the column, or the numeric identifier of the page.
<i>DimName</i>	Name of a dimension in the grid row, column, or page.
<i>POV DimName</i>	Name of the dimension on the grid or user POV.

### Examples:

Return the description assigned to the Product dimension in Grid1, column A:

```
<<MemberDescription("Grid1", A, "Product")>>
```

```
<<MemberDescription(current, A, "Product")>>
```

Return the description for the Year dimension. The syntax is placed on the grid's custom heading:

```
<<MemberDescription("Year")>>
```

```
<<MemberDescription(Current)>>
```

Return the description for the Scenario dimension for the POV associated with Grid1:

```
<<MemberDescription("Grid1", "Scenario")>>
```

```
<<MemberDescription(current, "Scenario")>>
```

### Note:

MemberDescription only supports the Current keyword when used in a grid cell or in a text box object when specifying the Page dimension parameter. Other parameters (Grid, Row, Column) are not supported in a text box object, header, or footer. See [Using the Current/Cur Keyword in a Text Function](#).

## MemberName

MemberName is a text function. Based on the syntax used, it returns the name of the member assigned to a dimension in the row, column, page, or Point of View (POV).

- The following syntax returns the name of a row heading, column heading, or page. The syntax can be deployed from any heading cell, text cell or text box object and can reference any grid in a current report.

```
<<MemberName( "GridName" , Row/Col/Page , "DimName" )>>
```

- The following syntax returns the name in a row heading, column heading, or page. The syntax can be deployed from any row, column, or page heading in a grid that is designated as a custom heading. To designate a custom heading, click the page, row heading, or column heading, and then select Custom Heading on the property sheet. You can add the function in the space provided below the custom heading.

```
<<MemberName( "DimName")>>
```

- The following syntax returns the name of a grid or user POV. The syntax can be deployed from any text cell or text box object and can reference any grid and corresponding POV in a current report.

```
<<MemberName( "GridName" , "POV DimName")>>
```

Argument	Description
<i>GridName</i>	Name of the grid.
<i>Row/Col/Page</i>	Numeric identifier of the row, the alphabetical identifier of the column, or the numeric identifier of the page.
<i>DimName</i>	Name of a dimension in the grid row, column, or page.
<i>POV</i> <i>DimName</i>	Name of the dimension on the grid or user POV.

### Examples:

Return the name assigned to the Product dimension in Grid1, column A:

```
<<MemberName( "Grid1" , A , "Product" )>>
```

```
<<MemberName( current , A , "Product" )>>
```

Return the name for the Year dimension. The syntax is placed on the grid's custom heading:

```
<<MemberName( "Year" )>>
```

Return the name for the Scenario dimension for the POV associated with Grid1:

```
<<MemberName( "Grid1" , "Scenario" )>>
```

```
<<MemberName( current , "Scenario" )>>
```

**Note:**

MemberName only supports the Current keyword when used in a grid cell or in a text box object when specifying the Page dimension parameter. Other parameters (Grid, Row, Column) are not supported in a text box object, header, or footer. See [Using the Current/Cur Keyword in a Text Function](#).

## MemberProperty

**Note:**

MemberProperty is applicable to Oracle Hyperion Planning details and Oracle Essbase database connections.

MemberProperty is a text function. Based on the syntax used, it returns the member property value of a dimension in the row, column, page, or Point of View (POV). You can use this function to display a member property in a text row or column.

- The following syntax returns the member property of a row heading, column heading, or page. The syntax can be deployed from any heading cell, text cell or text box object and can reference any grid in a current report.

```
<<MemberProperty( "GridName", Row/Col/Page, DimName, Property)>>
```

- The following syntax returns the member property in a row heading, column heading, or page. The syntax can be deployed from any row, column, or page heading in a grid that is designated as a custom heading. To designate a custom heading, click the page, row heading, or column heading, then select Custom Heading on the property sheet. You can add the function in the space provided below the custom heading.

```
<<MemberProperty("DimName", Property)>>
```

- The following syntax returns the member property of a grid or user POV. The syntax can be deployed from any text cell or text box object and can reference any grid and corresponding POV in a current report.

```
<<MemberProperty("GridName", POV DimName, Property)>>
```

Argument	Description
<i>GridName</i>	Name of the grid.
<i>Row/Col/Page</i>	Numeric identifier of the row, the alphabetical identifier of the column, or the numeric identifier of the page.
<i>POV DimName</i>	Name of the dimension on the grid or user POV.
<i>Property</i>	Any custom property (attribute dimensions).

**Examples:**

Return the member property assigned to the Product dimension in Grid1, column A:

```
<<MemberProperty("Grid1", A, Product, Pkg Type)>>
<<MemberProperty(current, A, Product, Pkg Type)>>
```

Return the member property for the Market dimension. The syntax is placed on the grid's custom heading:

```
<<MemberProperty("Market", Population)>>
<<MemberProperty(current, Population)>>
```

Return the member property for the Market dimension for the POV associated with Grid1:

```
<<MemberProperty("Grid1", Market, CurrencyCategory)>>
<<MemberProperty(current, Market, CurrencyCategory)>>
```

Retrieve the Member Alias and Ounces property of a product in a custom heading. (To do this, select the heading, then on the Heading Row Properties sheet, select the Custom Heading option, and then click Functions).

```
<<MemberAlias(current, current, Product)>>:
<<MemberProperty(current, current, Product, Ounces)>>
```

The report output would resemble the following:

	Qtr 1
Cola : Ounces_12	5,096
Diet Cola : Ounces_12	1,359
Caffeine Free Cola : Ounces_16	593

---



---

**Note:**

MemberProperty only supports the Current keyword when used in a grid cell, not in a text box object, header, or footer. See [Using the Current/Cur Keyword in a Text Function](#).

---



---

## MemberQualifiedName

MemberQualifiedName is a text function that, based on the syntax used, returns the qualified name of a non-unique member assigned to a dimension in the row, column, page, or Point of View (POV). A non-unique member is a child of multiple parents.

For example, if a member is named 100 and is a child of the Product1 member and the Product2 member, then 100 is a non-unique member name.

MemberQualifiedName shows the qualified names in reports. The qualified member names in this example are [Product1].[100] and [Product2].[100].

- The following syntax returns the name of a row heading, column heading or page. The syntax can be deployed from any heading cell, text cell or text box object and can reference any grid in a current report.

```
<<MemberQualifiedName("GridName", Row/Col/Page, "DimName")>>
```

- The following syntax returns the qualified name in a row heading, column heading, or page. The syntax can be deployed from any row, column or page



heading in a grid that is designated as a custom heading. To designate a custom heading, click the page, row heading or column heading, then select Custom Heading on the property sheet. You can add the function in the space provided below the custom heading.

```
<<MemberQualifiedName("DimName")>>
```

- The following syntax returns the name of a grid or user POV. The syntax can be deployed from any text cell or text box object and can reference any grid and corresponding POV in a current report.

```
<<MemberQualifiedName("GridName", "POV DimName")>>
```

Argument	Description
<i>GridName</i>	Name of the grid.
<i>Row/Col/ Page</i>	Numeric identifier of the row, the alphabetical identifier of the column, or the numeric identifier of the page.
<i>DimName</i>	Name of a dimension in the grid row, column, or page.
<i>POV DimName</i>	Name of the dimension on the grid or user POV.

### Examples:

Return the qualified non-unique name assigned to the Product dimension in Grid1, column A:

```
<<MemberQualifiedName("Grid1", A, "Product")>>
```

```
<<MemberQualifiedName(current, A, "Product")>>
```

Return the name for the Year dimension. The syntax is placed on the grid's custom heading:

```
<<MemberQualifiedName("Year")>>
```

Return the qualified non-unique name for the Scenario dimension for the POV associated with Grid1:

```
<<MemberQualifiedName("Grid1", "Scenario")>>
```

```
<<MemberQualifiedName(current, "Scenario")>>
```

### Note:

MemberQualifiedName only supports the Current keyword when used in a grid cell; not in a text box object, header, or footer. See [Using the Current/Cur Keyword in a Text Function](#).

## Page

Page is a text function that returns the current page number of a printed report. Use this function in a text object.

### Syntax:

```
<<Page()>>
```

**Example:**

If the current page is eight, yield: Page 8.

```
Page<<PAGE ( ) >>
```

---

**Note:**

Page works for printed reports only. Online reports display `[[PageCount ( )]]` for the page number. The page axis on a grid is different from the page number in a printed report.

---

## PageCount

PageCount is a text function that returns the total number of pages in a printed report. Use this function in a text object.

**Syntax:**

```
<<PageCount ( ) >>
```

**Example:**

If the current page count is 6, yields: "The total number of pages is: 6".

The total number of pages is: `<<PageCount()>>`

---

**Note:**

PageCount works for printed reports only. Online reports display `[[PageCount ( )]]` for the page number.

---

## PlanningAnnotations

PlanningAnnotations is a text function that retrieves the critical notes or comments associated with a cell's Planning Unit from the Oracle Hyperion Planning database connection. Planning Units are a combination of Scenario, Version, and Entity and are derived in Oracle Hyperion Financial Reporting through cell references in a grid.

**Syntax:**

```
<<PlanningAnnotations("GridName", Row, Column, Page, Attributes, Range) >>
```

```
<<PlanningAnnotations("GridName", Row, Column, Page, Attributes) >>
```

---

Argument	Description
<i>GridName</i>	(Required) Name of a grid.
<i>Row</i>	(Required) Numeric value representing the row number of the grid. The first row in a grid has an index of 1, the second row has an index of 2, and so on.

---

Argument	Description
<i>Column</i>	(Required) Letter that represents the column of the grid. The first column in a grid has an index of A, the second column has an index of B, and so on.
<i>Page</i>	(Required) Numeric value representing the index of member combinations on all page dimensions of the grid. The first page dimension combination in a grid has an index of 1, the second page dimension combination has an index of 2, and so on.
<i>Attributes</i>	Any of the following values: All, Title, Author, Date, Text, PlanningUnit. (PlanningUnit is the combination of scenario, version, and entity and is derived from the <i>GridName</i> , <i>Row</i> , <i>Column</i> , and <i>Page</i> .) Arrange attributes in the preferred order of output, and separate each attribute with an ampersand (&).
<i>Range</i>	Use the keywords All, Top, or Bottom. to select the number of annotations from the top or bottom of an output, or all annotations. <ul style="list-style-type: none"> <li>All returns all annotations</li> <li>Top 5 returns the first five annotations</li> <li>Bottom 10 returns the last ten annotations</li> <li>Bottom 1 returns the last annotation</li> </ul>

**Example 1:**

"All" is assumed for the *Range* parameter.

```
<<PlanningAnnotations("Grid Name", 1,a,1,All, All)>>
<<PlanningAnnotations("Grid Name", 100,AB,10,All, All)>>
<<PlanningAnnotations(cur, cur,a,cur,Text & Title & Author, Top 5)>>
<<PlanningAnnotations(cur, 315, AB, 255, Text&Title&Author, Top 5)>>
<<PlanningAnnotations(cur, cur A, Cur, PlanningUnit, Top 5)>>
<<PlanningAnnotations("cur, 123, ABC, 101, PlanningUnit, Top5)>>
<<PlanningAnnotations("Grid1, 1, current, cur, Title & Text, Bottom 10)>>
<<PlanningAnnotations("Grid1, 105, ABC, cur, Title & Text, Bottom 10)>>
<<PlanningAnnotations("Current", 34, BB, cur, "All", Top 40)>>
<<PlanningAnnotations(cur, cur, A cur, "Text & Title & Author", Top 5)>>
<<PlanningAnnotations(cur, cur, A, cur, "Text&Title&Author, "bottom15")>>
<<PlanningAnnotations(cur, 1(3), A(B), cur, Title&Author&Date&Text, "All")>>
<<PlanningAnnotations(cur, 1(3), A(B), cur, "Title&Author&Date&Text, "All")>>
```

**Example 2:**

Retrieve annotation text in row 1, column A, of a grid on the current page. Display the bottom three annotations and all attributes associated with the annotation (title, author, date, text, and planning unit).

Use this syntax in a text cell:

```
<<PlanningAnnotations(Current, 1, A, Current, All, Bottom 3)
```

Annotations are returned chronologically in descending order by date, with the most recent annotations on top and the oldest annotation on the bottom. The resulting annotation text resembles the following:

Title: Status - Under Review

Author: John Smith

Date: Mar 25, 2003 10:32:49 AM  
Planning Unit: Budget, 1st Draft, East  
Text: Please review and approve  
-----

Title: Status - Not Signed Off  
Author: Mary Brown  
Date: Mar 21, 2003 2:59:11 PM  
Planning Unit: Budget, 1st Draft, West  
Text: Sorry, Try Again  
-----

Title: Status - Under Review  
Author: Admin  
Date: Mar 21, 2003 2:54:16 PM  
Planning Unit: Budget, 1st Draft, South  
Text: Please review and approve budget for 1st draft

---

**Note:**

PlanningAnnotations only supports the Current keyword when used in a grid cell; not in a text box object, header, or footer. See [Using the Current/Cur Keyword in a Text Function](#).

---

## ProcessManagementStatus

ProcessManagementStatus is a text function that returns the status of a cell in a Oracle Hyperion Financial Management database connection. Possible process levels are: Not Started, First Pass, Submitted, Approved, Published, Not Supported, Review Levels 1 through 10. Use ProcessManagementStatus in a text box, a text cell, or a text row or column heading. ProcessManagementStatus is available only with Financial Management as the database connection.

**Syntax:**

<<ProcessManagementStatus("GridName", Row, Col, Page)>>

Argument	Description
<i>GridName</i>	Name of a Financial Management grid. <i>GridName</i> must be enclosed in quotation marks.
<i>Row</i>	Numeric value representing the row index of the grid. The first row in a grid has an index of 1, the second row has an index of 2, and so on.
<i>Col</i>	Letter representing the column of the grid. The first column in a grid has an index of A, the second column has an index of B, and so on.

Argument	Description
<i>Page</i>	Numeric value representing the page dimension index of the grid. The first page dimension in a grid has an index of 1, the second page dimension has an index of 2, and so on.

**Example 1:**

Status for the cell in row 21, column B on page 1 of Grid1:

```
<<ProcessManagementStatus("Grid1",21,B,1)>>
```

```
<<ProcessManagementStatus(Current,21,B,1)>>
```

**Example 2:**

Display the status for all cells in column B, on page 1 of the current grid:

```
<<ProcessManagementStatus(Current,Current,B,1)>>
```

**Note:**

ProcessManagementStatus only supports the Current keyword when used in a grid cell; not in a text box object, header, or footer. See [Using the Current/Cur Keyword in a Text Function](#).

## ReportAuthor

ReportAuthor is a text function that returns the user name of the person who created the report. Use this function in a text box, text cell, row, or column heading.

**Syntax:**

```
<<ReportAuthor()>>
```

**Example:**

Return the name of the report author:

```
<<ReportAuthor()>>
```

## ReportCreated

ReportCreated is a text function that returns the date a report was created. Use this function in a text box, text cell, row, or column heading.

**Syntax:**

```
<<ReportCreated("format","TimeZoneId")>>
```

Argument	Description
<i>format</i>	Characters, enclosed in quotation marks, that define the format of the date and time. <i>Format</i> defaults to the user preference for date /time. Valid values are those accepted by Java SimpleDateFormat, "user", or empty ("user"). For a detailed description of date and time formats, see. <a href="#">Table 1</a> .
<i>TimeZoneId</i>	Defaults to user preferences for the time zone. Valid values are those accepted by Java TimeZone.getTimeZone(), or the server time zone. For example, for TimeZone.getTimeZone() to specify the east coast, enter: America/New_York.

---

**Note:**

The date and time format is case-sensitive. ReportCreated returns a value only after the report is saved.

---

**Example:**

Insert the report creation date in the body of a report:

```
<<ReportName() >> - Created on <<ReportCreated("d-MM-yy") >>
```

## ReportDesc

ReportDesc is a text function that returns the description of the current report. Use this function in a text box, text cell, row, or column heading.

**Syntax:**

```
<<ReportDesc() >>
```

**Example:**

Insert a report description in the body of a report:

```
<<ReportDesc() >>
```

---

**Note:**

You can define a report description when you save the report. Afterward, you can change the description in the repository or when you save the report again with the Save As command.

---

## ReportFolder

ReportFolder is a text function that returns the path of the folder where the report is located. Use this function in a text box, text cell, row, or column heading.

**Syntax:**

```
<<Reportfolder() >>
```

**Example:**

Insert the path of the folder where the report is located:

```
<<ReportFolder( )>>
```

Considerations when using ReportFolder:

- The report must be located in a folder other than the root folder. The root folder is not considered a report folder and returns an empty string.
- The report must be saved to a folder in order to return the correct string. An unsaved report returns an empty string.
- If you open a report containing a ReportFolder function, save it to a new folder. When you use Print Preview to preview the report, the previous location of the folder is displayed. This is by design for performance reasons. To reevaluate the report, modify a grid or report object, then use Print Preview to see the new folder location.

## ReportModified

ReportModified is a text function that returns the date the current report was last modified. Use this function in a text box, text cell, row, or column heading.

**Syntax:**

```
<<ReportModified("format", "TimeZoneId")>>
```

Argument	Description
<i>format</i>	Characters, enclosed in quotation marks, that define the format of the date and time. <i>Format</i> defaults to the user preference for date /time. Valid values are those accepted by Java SimpleDateFormat, "user", or empty ("user"). For a detailed description of date and time formats, see <a href="#">Table 1</a> .
<i>TimeZoneId</i>	Defaults to user preferences for the time zone. Valid values are those accepted by Java TimeZone.getTimeZone(), or the server time zone. For example, for TimeZone.getTimeZone() to specify the east coast, enter: America/New_York.

**Note:**

The date and time format is case-sensitive. ReportModified returns a value only after the report is saved.

**Example:**

Insert the date Jan 19, 2013. (This is the date that the report was last modified.)

```
Report Modified: <<ReportModified("MMM dd, yyyy")>>
```

## ReportModifiedBy

ReportModifiedBy is a text function that returns the user name of the last user to save the report. Use this function in a text box, text cell, row, or column heading.

**Syntax:**

```
<<ReportModifiedBy( )>>
```

**Example:**

Insert the name of the last user to save the report:

```
<<ReportModifiedBy()>>
```

## ReportName

ReportName is a text function that returns the name of the current report. Use this function in a text box, text cell, row, or column heading.

**Syntax:**

```
<<ReportName( )>>
```

**Example:**

Insert the report name:

```
<<ReportName( )>>
```

## ReportRunBy

ReportRunBy is a text function that returns the user name of the user who is running the report. Use this function in a text box, text cell, row, or column heading.

**Syntax:**

```
<<ReportRunBy( )>>
```

**Example:**

Insert the name of the user who is running the report:

```
<<ReportRunBy()>>
```

## RetrieveValue

RetrieveValue functions in existing reports are no longer supported and must be manually updated to use the GetCell function.

## Conditional Functions

**Related Topics:**

[IFThen, If](#)

[Conditional Operators](#)

[Complex Conditions](#)

## IFThen, If

IfThen is a conditional function that returns a value when the condition equals True, and another value when the condition equals False.

**Syntax:**

```
IfThen(Condition, TrueParameter, FalseParameter)
```



- *Condition* is a logical expression that evaluates to true or false. Full conditional logic can be used as well as complex Boolean operators (And, Not, and Or). A *condition* can also test for #missing and #error values.
- *TrueParameter* and *FalseParameter* are expressions that are evaluated based on the outcome of the condition.

## Conditional Operators

When using conditional operators, consider the following:

- *Expression* can be any valid formula expression. The expression can be any combination of a constant (integer or real number), a reference, or another function.
- *Reference* can be any valid reference; thus the IFNN reference property can be utilized as part of the reference.
- *Condition* can be any valid condition applied to the complex conditions And, Not, and Or. These operators can have embedded conditions. (And, Not, and Or operators require surrounding parentheses.)
- When any *expression* within the condition returns an #error or #missing value, the If function returns #missing or #error. This does not apply when you use the IsMissing, IsError, or IsNonNumeric conditions.

Table 11-9 Conditional Operators

Conditional Operator	Syntax	Logic
Equal To	<i>expression = expression</i>	Tests if the left expression is equal to the right expression. <div><div>Note:</div><div>If rounding is required, use the Round function.</div><div>Example:</div><div><div>1</div><div>=</div><div>4</div><div>R</div><div>e</div><div>t</div><div>u</div><div>r</div><div>n</div><div>s</div><div>f</div><div>a</div><div>l</div><div>s</div><div>e</div></div></div>
Greater Than	<i>expression &gt; expression</i>	Tests if the left expression is greater than the right expression. <div><div>Example:</div><div><div>1</div><div>&gt;</div><div>4</div><div>R</div><div>e</div><div>t</div><div>u</div><div>r</div><div>n</div><div>s</div><div>f</div><div>a</div><div>l</div><div>s</div><div>e</div></div></div>

**Table 11-9 (Cont.) Conditional Operators**

Conditional Operator	Syntax	Logic
Greater Than or Equal To	<i>expression</i> >= <i>expression</i>	Tests if the left expression is greater than or equal to the right expression.
<hr/> <hr/>		
<b>Note:</b> The correct syntax is ">=". The syntax "=>" is not supported.		
<hr/> <hr/>		

**Example:**

1  
>  
=  
4

R  
e  
t  
u  
r  
n  
s  
f  
a  
l  
s  
e

**Table 11-9 (Cont.) Conditional Operators**

Conditional Operator	Syntax	Logic
Less Than	<i>expression &lt; expression</i>	<p>Tests if the left expression is less than the right expression.</p> <p><b>Example:</b></p> <div>1 &lt; 4</div> <div>R e t u r n s t r u e</div>
Less Than or Equal To	<i>expression &lt;= expression</i>	<p>Tests if the left expression is less than or equal to the right expression.</p> <hr/> <p><b>Note:</b> The correct syntax is "&lt;=". The syntax "&lt;=" is not supported.</p> <hr/> <p><b>Example:</b></p> <div>1 &lt; = 4</div> <div>R e t u r n s t r u e</div>

**Table 11-9 (Cont.) Conditional Operators**

Conditional Operator	Syntax	Logic
Not Equal To	<i>expression &lt;&gt; expression</i> <i>expression != expression</i>	Tests if the left expression is not equal to the right expression.
<hr/> <b>Note:</b> If rounding is required, use the Round function. <hr/>		
<b>Example:</b>		
		1
		<
		>
		4
		R
		e
		t
		u
		r
		n
		s
		t
		r
		u
		e
		1
		!
		=
		4
		R
		e
		t
		u
		r
		n
		s
		t
		r
		u
		e

**Table 11-9 (Cont.) Conditional Operators**

Conditional Operator	Syntax	Logic
IsMissing	IsMissing ( <i>reference</i> ) IsMiss ( <i>reference</i> )	Tests if the reference contains a #missing result.
		<b>Note:</b> If the reference is an expanded row or column, then all resulting cells must be #missing in order for the condition to be true.

**Example:**

I  
s  
M  
i  
s  
s  
i  
n  
g(  
[  
1  
])  
  
R  
e  
t  
u  
r  
n  
s  
t  
r  
u  
e  
i  
f  
r  
o  
w  
1  
h  
a  
s  
a  
#  
m

Table 11-9 (Cont.) Conditional Operators

Conditional Operator	Syntax	Logic
		i s s i n g v a l u e .

**Table 11-9 (Cont.) Conditional Operators**

Conditional Operator	Syntax	Logic
IsError	IsError (reference) IsErr (reference)	Tests if the reference contains an #error result.
		<b>Note:</b> If the reference is an expanded row or column, all resulting cells must be #error in order for the condition to be true. Only formula rows and columns can result in #error.

**Example:**

I  
S  
E  
r  
r  
o  
r(  
[  
2  
])  
  
R  
e  
t  
u  
r  
n  
s  
t  
r  
u  
e  
i  
f  
r  
o  
w  
2  
h  
a  
s  
a  
#  
e  
r



**Table 11-9 (Cont.) Conditional Operators**

Conditional Operator	Syntax	Logic
----------------------	--------	-------

r  
o  
r  
v  
a  
l  
u  
e  
.

**Table 11-9 (Cont.) Conditional Operators**

Conditional Operator	Syntax	Logic
IsNonNumeric	IsNN ( <i>reference</i> )	Tests if the reference contains a #missing or #error results.
	IsNonNumeric ( <i>reference</i> )	
	IfNN ( <i>reference</i> )	
	IfNonNumber ( <i>reference</i> )	
		<b>Note:</b> If the reference is an expanded row or column, all resulting cells must be #missing and/or #error in order for the condition to be true.

**Example:**

I  
S  
N  
N(  
[  
3  
]  
)  
  
R  
e  
t  
u  
r  
n  
s  
t  
r  
u  
e  
i  
f  
r  
o  
w  
3  
h  
a  
s  
a  
#  
m  
i  
s  
s  
i  
n

Table 11-9 (Cont.) Conditional Operators

Conditional Operator	Syntax	Logic
		g o r # e r r o r v a l u e .
Parenthesis	( condition )	Groups a condition. Example:  ( 1 > 4 )  R e t u r n s f a l s e

Complex Conditions

Table 11-10    *Complex Conditions*

Complex Conditions	Syntax	Logic
And	<i>(condition AND condition)</i> <i>(condition &amp; condition)</i>	Compares two conditions. Returns true if all conditions are true. Example: <div>( 1 &gt; 4 A N D 5 &gt; 2 )  R e t u r n s f a l s e</div>

**Table 11-10 (Cont.) Complex Conditions**

Complex Conditions	Syntax	Logic
Not	NOT ( <i>condition</i> ) ! ( <i>condition</i> )	Negates the result by reversing the result of the condition.  <b>Example:</b>  N o t ( 1 > 4 )  R e t u r n s t r u e

**Table 11-10 (Cont.) Complex Conditions**

Complex Conditions	Syntax	Logic
Or	<i>( condition OR condition )</i> <i>( condition   condition )</i>	Compares two conditions. Returns true if any of the conditions are true. <b>Example:</b>  <div>( 1 &gt; 4 O R 5 &gt; 2 )  R e t u r n s t r u e</div>

Complex conditions And, Or, and Not are fully supported. However, they must be surrounded by parentheses.

**Valid example:**

If ( ([A] > [B] and [A] > 1000), [A], [B])

**Invalid example:**

If ( [A] > [B] and [A] > 1000, [A], [B])

**Financial Functions**

**Related Topics:**

- [Rank](#)
- [Variance/Var](#)
- [VariancePercent/VarPercent](#)

## Rank

Rank is a financial function that provides a rank value for a value in a specified range. Rank is processed by Oracle Hyperion Financial Reporting and does not depend on the database connection.

### Syntax:

**Rank**([*Reference*], *Order*)

**Rank**([*Reference*], *Order*, *Unique*)

Argument	Description
<i>Reference</i>	<p>The range of cells, rows, or columns to rank, with letters identifying columns and numbers identifying rows. For example, specify [A,1:5] to rank the values for rows 1 through 5 in column A.</p> <p>You can use the .ifNN property with a range of cells to assign numbers to any cells with nonnumeric values so that those cells can be ranked. For example, you can use .ifNN(-1) to assign the value -1 to any cell with a missing value.</p>
<i>Order</i>	<p>Indicates the order by which the values are ranked. The lowest value ranked in ascending order receives a rank result of 1. The largest value ranked in descending order receives a rank result of 1. The order can be indicated by any of the following keywords or values:</p> <ul style="list-style-type: none"> <li>Ascending</li> <li>Descending</li> <li>Asc</li> <li>Des</li> <li>Desc</li> <li>1 (the number 1 is the same as Ascending)</li> <li>0 (zero is the same as Descending)</li> </ul> <p>The keywords are not case-sensitive.</p> <hr/> <p><b>Note:</b></p> <p>Do not enclose the number or keyword indicating order in quotation marks.</p> <hr/>
<i>Unique</i>	<p>(Optional) A Boolean keyword indicating how to treat equal values in the Reference parameter where:</p> <ul style="list-style-type: none"> <li><b>false</b> (or omitted) — equal values receive the same ranking ; ranked results may be duplicated</li> <li><b>true</b> — equal values receive a unique ranking; there are no duplicate rankings. Values in the Reference parameter are ranked on a first come, first ranked basis. For example, if values in rows 2 and 5 are equal, the value in row 2 is ranked before that of row 5.</li> </ul>

### Examples:

This formula in column B ranks the values in rows 1 through 5 in column A in descending order:

```
Rank([A,1:5], descending)
```

The result might be as follows:

	East	Rank
Cola	16	2
Fruit Drinks	23	1
Beer	16	2
Diet	missing	missing
Root Beer	0	4

When two values are equal, they receive the same rank value. In the example above, Cola and Beer have the same value and therefore the same rank.

This formula in column B assigns the value of -1 to any nonnumeric value so it can be ranked:

```
Rank([A,1:5].ifNN(-1), descending)
```

In the following result, the missing value now has a rank of 5:

	East	Rank
Cola	16	2
Fruit Drinks	23	1
Beer	16	2
Diet	missing	5
Root Beer	0	4

### Example:

The following example builds on the previous example explaining how the new “unique” parameter affects the results:

This formula in column B assigns the value of -1 to any nonnumeric value so it can be ranked, and also indicates that each ranking should be unique:

```
Rank([A,1:5].ifNN(-1), descending, true)
```

In the following result, the missing value now has a rank of 5, and Beer has a value of 3 (even though it has the same data value as Cola):

	East	Rank
Cola	16	2
Fruit Drinks	23	1
Beer	16	3
Diet	missing	5



	East	Rank
Root Beer	0	4

## Variance/Var

Variance/Var is a financial function that evaluates the difference between the specified values based on account type for the current account.

For Expense accounts, a positive result represents an unfavorable variance, so the result appears as a negative number. For Non-expense accounts, a positive result represents a favorable variance, so the result appears as a positive number.

Variance/Var is available for standard database connections.

### Syntax:

`Var(reference1, reference2)`

where *reference1* and *reference2* are references to a row, column, or cell that correspond to members of the same Account dimension whose variance results are to be calculated.

### Expected Results

**Table 11-11** Expected Results When Using *Variance/Var*

Column A	Column B	Var ([A] , [B])=0	Var ([A] , [B])>0	Var ([A] , [B])<0
Expense	Expense	0	Returns a negative value	Returns a positive value
Non-Expense	Non-Expense	0	Returns a positive value	Returns a negative value

### Variance Behavior

Variance expects comparison of the same account type. When you compare two different account types, like Sales & Expense, Variance performs the math without applying the logic of the account type. For example:

Sales	Expense	Result
-400	100	-500

### Examples

Variance accepts cell, column, or row references only. For more information, see [Row, Column, or Cell Reference Arguments](#).

Syntax	Example
Sample syntax referencing a column:	<code>Var ([A] , [B])</code>

Syntax	Example
Sample syntax referencing a row:	<code>Var ([3], [4])</code>
Sample syntax referencing a cell:	<code>Var (Cell [3,A], [3,B])</code>

In this example, the variance between column A (**Actual**) and column B (**Budget**) is calculated as:

`Var([A],[B])`

This example produces the following report:

	Year	Product	Market
	Actual	Budget	Variance
	=====	=====	=====
Sales(Income)	400,855	373,080	27,775
COGS (Expense)	179,336	158,940	-20,396

## VariancePercent/VarPercent

`VariancePercent/VarPercent` is a financial function that evaluates the difference, in percent, between the specified values based on account type for the current account.

For Expense accounts, a positive result represents an unfavorable variance, so the result appears as a negative number. For Non-expense accounts, a positive result represents a favorable variance, so the result appears as a positive number.

`Variance/Var` is available for standard database connections.

### Syntax:

`VarPer(reference1, reference2)`

where *reference1* and *reference2* are references to a row, column, or cell that correspond to members of the same Account dimension whose `VariancePercent` results are calculated.

### Expected Results

**Table 11-12 Expected Results When Using `VariancePercent/VarPercent`**

Col A	Col B	VarPer ([A] , [B])=0	VarPer ([A] , [B])>0	VaPer ([A] , [B])<0
Expense	Expense	0	Returns a negative value	Returns a positive value
Non-Expense	Non-Expense	0	Returns a positive value	Returns a negative value

## VariancePercent Behavior

VariancePercent expects comparison of the same account type. When you compare two different account types, like Sales & Expense, the VariancePercent function performs the straight math without applying the logic of the account type. For example:

Sales	Expense	Result
-400	100	-5.

- #missing is treated as zero (0), unless specified differently using ifnonnumber property.
- #error is results in #error, unless specified differently using ifnonnumber property.

## Examples

VariancePercent accepts, cell, column, or row references only. See [Row, Column, or Cell Reference Arguments](#).

Syntax	Example
Sample syntax referencing a column:	VarPer ([A], [B])
Sample syntax referencing a row:	VarPer ([3], [4])
Sample syntax referencing a cell:	VarPer (Cell [3,A], [3,B])

In this example, the VariancePercent between column A (Actual) and column B (Budget) is calculated as follows:

VarPer([A],[B])

This example produces the following report:

	Year Product Market		
	Actual	Budget	VariancePercent
	=====	=====	=====
Sales(Income)	400,855	373,080	7%
COGS (Expense)	179,336	158,940	-13%

