Oracle BI 11g Reports and Dashboards

Presentation Variables



Presentation Variables

Agenda

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 - Session/Repository Variables
 - Presentation Variables
 - Examples
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- Defining Presentation Variables
- Using Presentation Variables
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 - Column Filters
 - Column Formulas



Session/Repository Variables

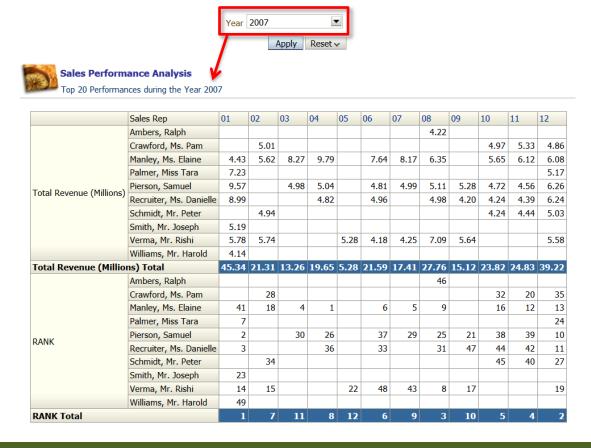
- There are 2 types of variables that are supplied as part of your Oracle BI: application:
 - Session Variables : Variables unique to each user's session
 - Repository Variables : Global variables, every user sees the same value
- These Session/Repository Variables are very useful and can be applied in a number of places including:
 - Column Formulas e.g. display the "Username" of the end user
 - Columns Filters e.g. filter records for the "Current Year"
- But there are some limitations with Session/Repository Variables:
 - Session/Repository Variables are release dependent
 - Users are not able to override their values
 - Report Developers are not able to modify their definition
 - Report Developers are not able to specify or override their default value

Presentation Variables

- Presentation Variables are a 3rd type of Oracle BI variable and offer a flexible way to overcome the limitations that exist with Session/Repository Variables:
 - They provide a mechanism for Report Developers to create their own variables and assign default values to them
 - End users are then able to override the Presentation Variable values simply by making selections using standard dashboard prompts
 - Presentation Variables are not release dependent
- Presentation Variables can be used in a variety of places:
 - Title Views
 - Narrative Views
 - Column Filters
 - Column Formulas
 - Conditional Formatting conditions
 - Dashboard prompts
 - Dashboard Section Headers
 - Chart scale markers
 - Gauge range settings
 - Static text

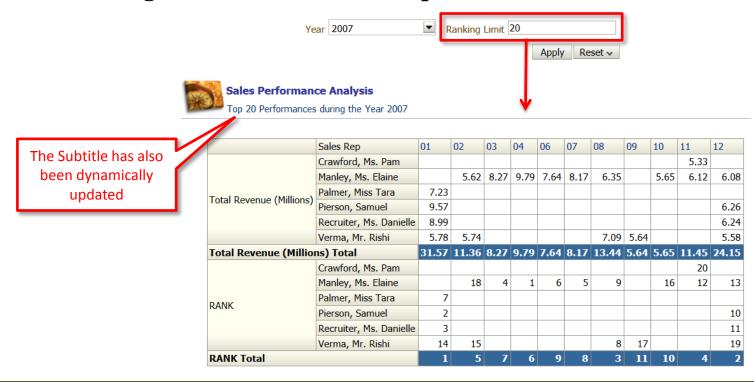
Example: Dynamic Request Subtitle

- In this example, the value of "Year" selected in the Dashboard Prompt will be displayed in the subtitle of the Analysis
- When the user selects a different Year, the subtitle will also change!



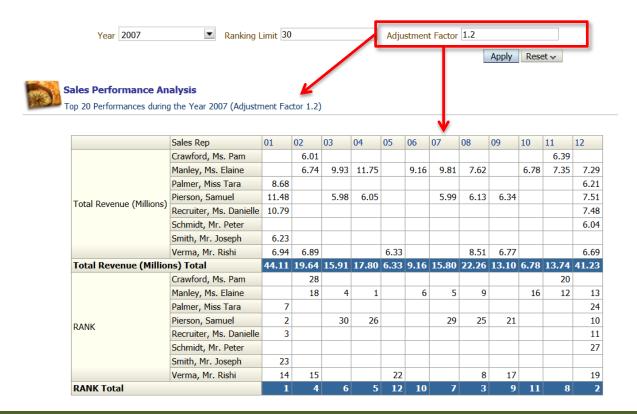
Example: Dynamic Request Filter

- A Presentation Variable can be used to modify the filter criteria of an Analysis on a dashboard page
- The Analysis below will by default return only the "Top 30" best sales performances during the year. However, the user has changed this filter to the "Top 20":



Example: What-If Analysis

- A Presentation Variable can also be used to dynamically modify a column formula within an Analysis
- In the example below, the user has multiplied the "Total Revenue (Millions)" by a factor of 1.2 to simulate a 20% increase in sales:



Syntax

- The syntax for a Presentation Variable is as follows:
 - @{variable name}{default value}
- For example: The following syntax refers to the Presentation Variable "PR_YEAR" and specifies the default value of "2010" to be used if no value has been assigned:
 - @{PR_YEAR}{2010}

Further Notes

- Users can only change the Presentation Variable values by using a dashboard prompt
- If you are previewing an Analysis away from a Dashboard, then a
 default value must be specified to avoid a NULL value appearing
- It is possible to assign multiple values to a Presentation Variable



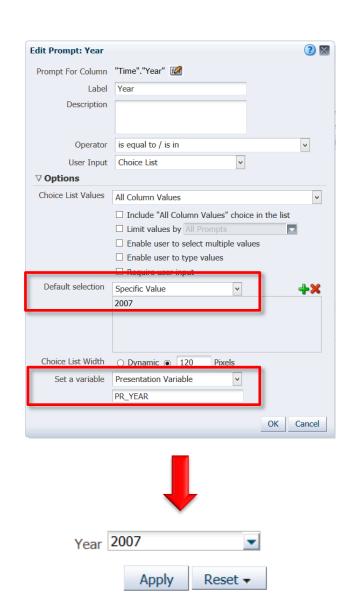
PEAK indicators Presentation Variables Defining Presentation Variables

Defining Presentation Variables

- Creating Presentation Variables is straight forward
- We will show two examples:
 - Column Prompt
 - A Presentation Variable that will be populated from a list of values obtained from a Subject Area column
 - Variable Prompt
 - Presentation Variable that will be populated from a free-text field

Defining Presentation Variables Column Prompt

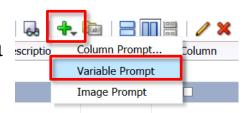
- Edit your Dashboard Prompt and open up the settings for the column which will be used to populate the Presentation Variable
- Within the "Options" section, set the "Set a variable" option to "Presentation Variable"
- Then type in the name of your Presentation Variable in the box underneath e.g.
 PR YEAR
- Specify a default value using the "Default selection" option as appropriate



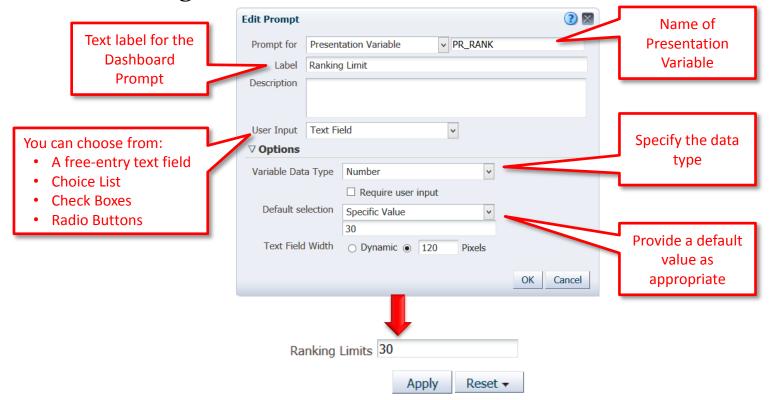
Defining Presentation Variables

Variable Prompt

 Open your Dashboard Prompt and choose to create a new "Variable Prompt"



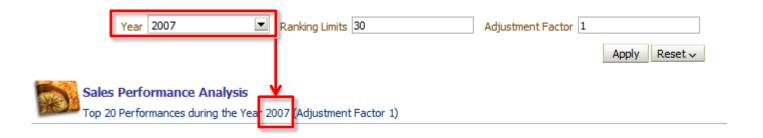
Then configure as follows:





Using Presentation Variables

Titles and Subtitles



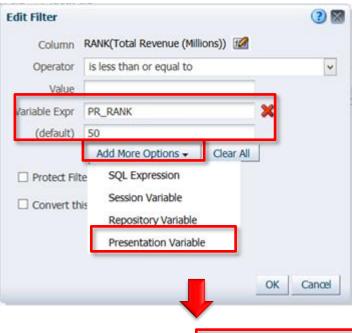
- Open up the Analysis for editing
- On the Results tab, open up your Title view for editing
- Enter the desired text for your Title or Subtitle with the following syntax to reference your Presentation Variable:
 - $@{variable}{default\ value}$ e.g. $@{PR_YEAR}{2007}$



Using Presentation Variables

Column Filters

- Open up the Analysis for editing
- On the Criteria tab, add a new filter for the desired column
- Specify an operator e.g. "Is less than or equal to"
- Click on "Add More Options" and select "Presentation Variable"
- Enter the Presentation Variable name and a default value:

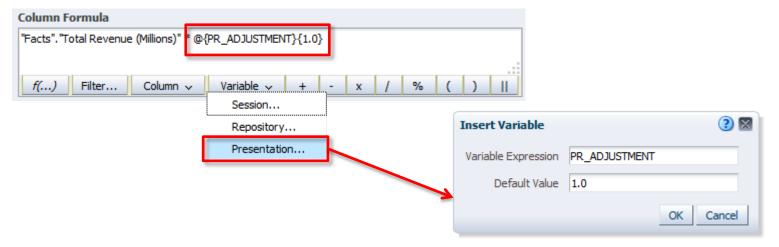


RANK(Total Revenue (Millions)) is less than or equal to @{PR_RANK}{50}

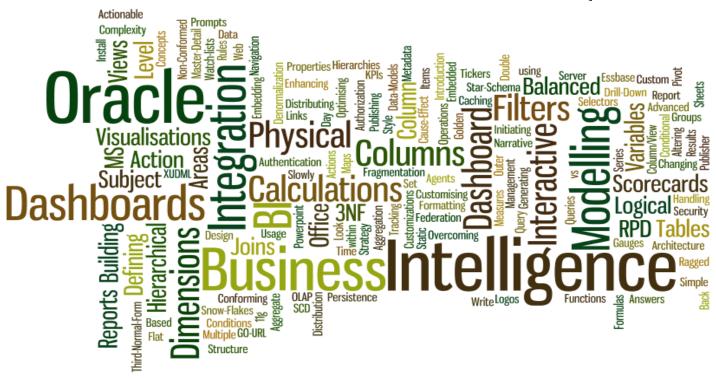
Using Presentation Variables

Column Formulas

- Open up the Analysis for editing
- On the Criteria tab, open up the Column Formula for the desired column
- Position the cursor where you wish to insert the Presentation Variable
- Choose the option Variable > Presentation
- Specify the name of the Presentation Variable
- Enter a default value in the box provided



Questions?







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