Elements of Dashboard Design
- Parameterization using Substitutions

Dashboard Design - Substitutions

Substitutions

- The Substitutions feature allows you to build open-ended displays in which data attachments and commands depend on values defined at the time the display is run.
- When data attachments are created in the Display Builder, generic values are used instead of the actual value of any field in the Attach To Data and Define Command dialogs.
- These generic values are defined at runtime. Substitution values can either be defined for all displays or for a single drill down display.

Initializing Substitution values

- Substitutions can be assigned initial values
- Go to Tools>Options>Substitutions to assign values

Dashboard Design - Substitutions

Automatic Substitutions

- Certain substitutions are automatically set on drill down displays if activated from a tabular object (i.e., a table, object grid, bar graph, or pie.)

- Which substitutions are set on the drill down display depends on the data attachment of the source object. For example:
  - TIBCO Hawk: $agent, $ma
  - TIBCO RV: $subject, $filtervalue, $filtername
  - XML/SQL: $Xrowname where X = 1,2…n
  - All: $col1, $celldata

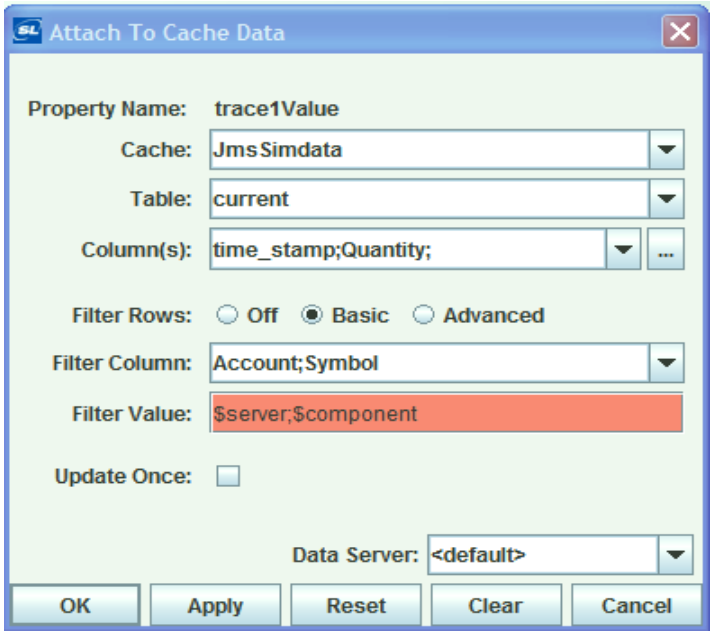
- The name of the row which corresponds to the selected element in the source object (i.e.: cell, object, bar, or wedge) will be used to construct the substitution when the drill down is activated.

- Table Objects: drillDownColumnSubs property allow substitutions to be assigned to each column.

Exercises

Ex 1: Add and pass substitution variables to Drill Down displays.

1. From the Display Builder, File->Open class_tables.rtv
2. Add 2 substitution variables using Tools->Variables.
   From the "Variables" dialog enter two new substitutions :
   Variable Name: $server
   Add
   Variable Name: $component
   Add
3. Save class_tables.rtv.
4. File->Open class_trend.rtv.
5. Add the $server and $component subs to this file as in step 2.
6. Now add $server, $component subs to the trend graph. From Object Properties->trace1Value, add subs by typing in the "Filter Column" names and "Filter Values".
   (continued)



Exercises

Ex 1: (continued)

7. Repeat this for trace1ValueTable attachment to the cache's history table
8. File->Save class_trend.rtv
9. File->Open class_tables.rtv and add substitutions to "Current Table"
10. Object Properties->drillDownColumnSubs, add subs.
11. File->Save class_tables.rtv
12. Test using Preview and selecting a row from the "Current Table". The row selected will be passed to Drill Down Display.