

More features in the Work With pattern
Variables in grid and actions

GeneXus® 16

How to add a variable in a Work With grid

- In previous classes we've seen how to add the &Trips variable to the grid of our WWAttractionsFromScratch web panel that allowed working with tourist attractions, and how to load it:

Country Id

Attraction Name From

Attraction Name To

GRID

Id	Attraction Name	Country	Photo	Trips
AttractionId	AttractionName	CountryName		<div>&trips</div>

Event Load
&trips = Count(TripDate)
endevent

- This web panel was similar to the one built by the Work With pattern...

We had seen how to add a &Trips variable to our grid, and how to load it for each line from the Load event.

If, instead of implementing this web panel manually, we wanted to use the Work With for Web pattern, how would we go about it?

Work With Pattern / Load variable in grid
GeneXus

How to add a variable in a Work With grid

Patterns usable in this object (underlined means pattern is applied)

- Work With for Web
- Work With for Smart Devices

☒ Apply this pattern on save

- Work With Pattern Instance
 - Transaction (Attraction)
 - Level (Attraction)
 - DescriptionAttribute (AttractionName)
 - Selection (Attractions)
 - modes (Insert, Update, Delete)
 - Attributes
 - AttractionId
 - AttractionName
 - CountryName
 - CategoryName
 - AttractionPhoto
 - CityName
 - Trips**
 - Orders
 - Filter
 - View (Attraction Information)

Properties

variable: Trips	
Name	Trips
Description	Trips
Domain	TripsAmount
Load Code	count(TripDate)

```

Event Grid.Load
    &Update.Link = Attraction.Link(TrnMode.Update, AttractionId)
    &Delete.Link = Attraction.Link(TrnMode.Delete, AttractionId)
    AttractionName.Link = ViewAttraction.Link(AttractionId, "")
    CountryName.Link = ViewCountry.Link(CountryId, "")

    // Load variable '&Trips'
    &Trips = (count(TripDate))
EndEvent
  
```








To add the variable, we right-click on the Attributes node/Add/Variable. We create it from the properties window, where we will be asked to enter a name for the variable and its domain. A property called Load Code will be displayed, and there we will indicate the value that we want the variable to be loaded with for each line of the grid.

If we save what we've done in the pattern "instance file" (that's how we call this node tree where we defined the pattern's behavior and data for the specific transaction to which it has been applied) and open the WWAttraction web panel object that was automatically created, we'll see that in the grid's Load event (the grid's Load event is the equivalent to the general Load event of a web panel with a single grid), the pattern has placed the code that we indicated to load the variable.

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Attractions

[+ INSERT](#)

Id	Name	Country Name	Category Na...	Photo	City Name	Trips		
25	Christ the Redemmer	Brazil	Monument		Rio de Janeiro	3	UPDATE	DELETE
24	Eiffel Tower	France	Monument		Paris	2	UPDATE	DELETE
28	Forbidden city	China	Tourist Site		Beijing	0	UPDATE	DELETE
22	Louvre Museum	France	Museum		Paris	1	UPDATE	DELETE
27	Matisse Museum	France	Museum		Nice	2	UPDATE	DELETE
26	Smithsonian Institute	United States	Museum		Washington	1	UPDATE	DELETE
23	The Great Wall	China	Tourist Site		Beijing	0	UPDATE	DELETE

Work With Pattern / Button outside the grid GeneXus

How to add a button outside the grid that invokes a PDF list

The screenshot shows the GeneXus IDE interface. On the left, a tree view displays the project structure. The 'Selection (Attractions)' node is selected, and a context menu is open, showing options like 'Add', 'Delete', 'Cut', 'Copy', 'Paste', 'Open', 'Expand All', 'Collapse All', and 'Properties'. The 'Action (AttractionsList)' node is highlighted under the 'Actions' folder. A red arrow points from this node to the 'Properties' window on the right.

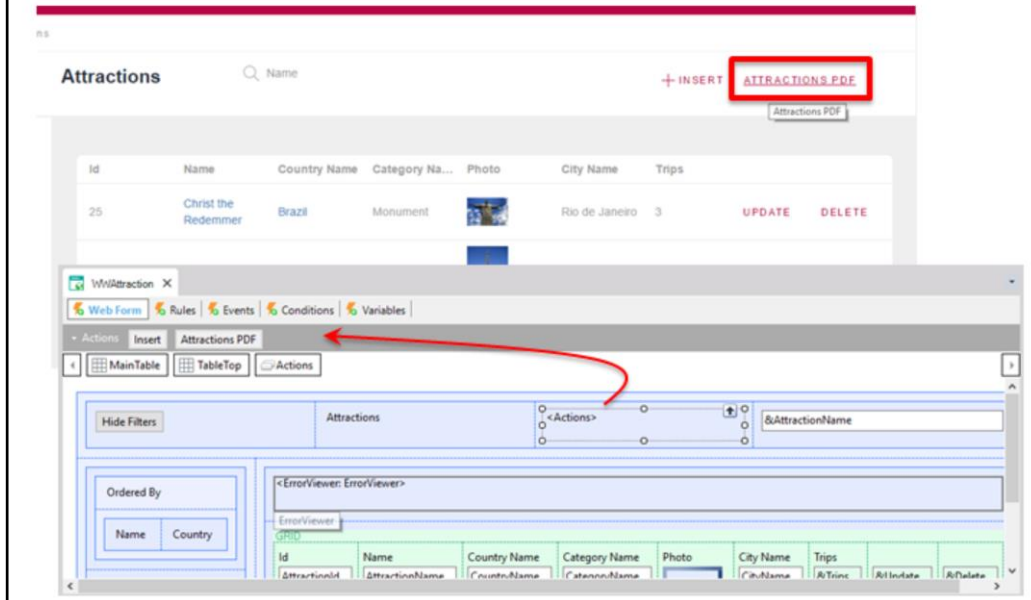
The 'Properties' window for the 'action: Action (AttractionsList)' is open. It shows the following properties:

Name	AttractionsList
Caption	Attractions PDF
GXObject	AttractionsReport
Condition	
Button Class	
Grid	
In Grid	False
Multi Row Selection	False
Image	(none)
Disabled Image	(none)
Disabled Class	
Tooltip	
In Grid Class	
Call Type	Auto
Custom	

We want to add a text/link/button outside the grid that allows invoking the AttractionsReport procedure that we had created to print all the attractions in a PDF file (it had a parameter, but we removed it).

We add an action at the Selection(Attractions) node level, which implements the Work With pattern itself. Through the properties we set the Caption it will have, as well as if we want it to be an image instead of a text, and if we want it to be outside the grid. Also, we can set it as a button (text/image) inside the grid, for each line. Most importantly: we indicate the object that is invoked as a result of choosing an action.

How to add a button outside the grid that invokes a PDF list



Here we see it at runtime.

By opening the web panel generated by the pattern, we can see how the action has been included in the Action Bar, at the level of the Action Group called <Actions>.

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