

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:

The screenshot shows a web panel design with the following components:

- A form with three input fields: "Country Id" with a dropdown menu labeled "&CountryId", "Attraction Name From" with a text input labeled "&AttractionNameFrom", and "Attraction Name To" with a text input labeled "&AttractionNameTo".
- A grid component labeled "GRID" with five columns: "Id" (AttractionId), "Attraction Name" (AttractionName), "Country" (CountryName), "Photo" (with a photo icon), and "Trips" (with a plus icon and "&trips").
- A callout box on the right containing the event load code:

```
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?

How to add a variable in a Work With grid

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
```








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

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.

How to add a variable in a Work With grid

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

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

The screenshot illustrates the configuration of an action in GeneXus. On the left, a context menu is open over the 'Selection (AttractionsList)' node, with the 'Add' option selected. The 'Add' submenu is visible, showing 'Add (from default)' and 'Actions'. The 'Actions' option is highlighted. In the center, the 'Transaction (Attraction)' tree is shown, with the 'Action (AttractionsList)' node selected under the 'Actions' folder. A red arrow points from this node to the 'Properties' window on the right. The 'Properties' window shows the configuration for the 'action: Action (AttractionsList)'. The 'Caption' is set to 'Attractions PDF', and the 'GXObject' is set to 'AttractionsReport'. The 'Grid' section is expanded, and the 'In Grid' property is set to 'False'.

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 the grid that invokes a PDF list

The screenshot displays a web application interface for 'Attractions'. At the top, there is a search bar and a '+ INSERT' button. A red box highlights the 'ATTRACTIONS_PDF' button, which is located outside the main grid. Below the grid, a web panel editor is open, showing the 'Attractions PDF' action being added to the '<Actions>' group. A red arrow points from the 'ATTRACTIONS_PDF' button in the application to the 'Attractions PDF' action in the editor. The editor also shows a table with columns: Id, Name, Country Name, Category Name, Photo, City Name, Trips, &Update, and &Delete.

Id	Name	Country Name	Category Na...	Photo	City Name	Trips		
25	Christ the Redemmer	Brazil	Monument		Rio de Janeiro	3	UPDATE	DELETE

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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