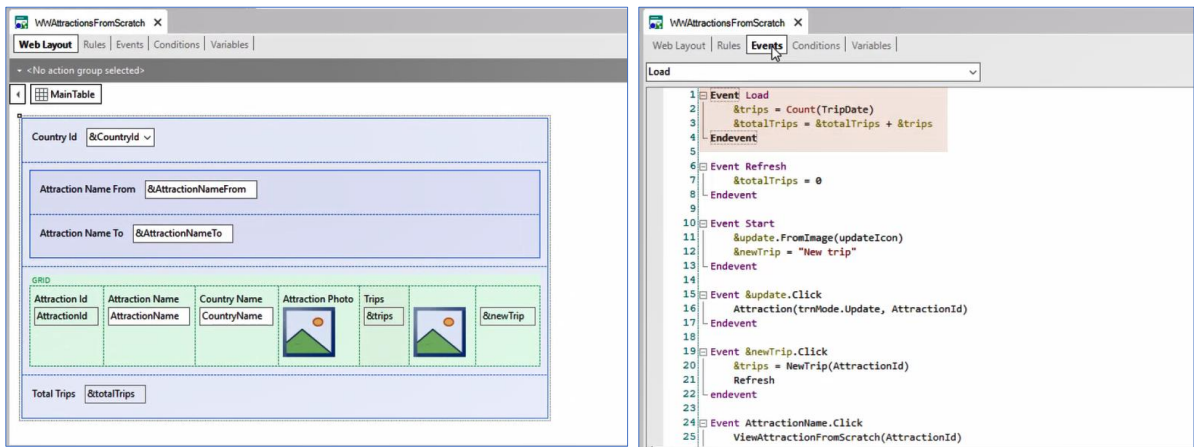


## Grid Variables and Actions in the Work With Pattern

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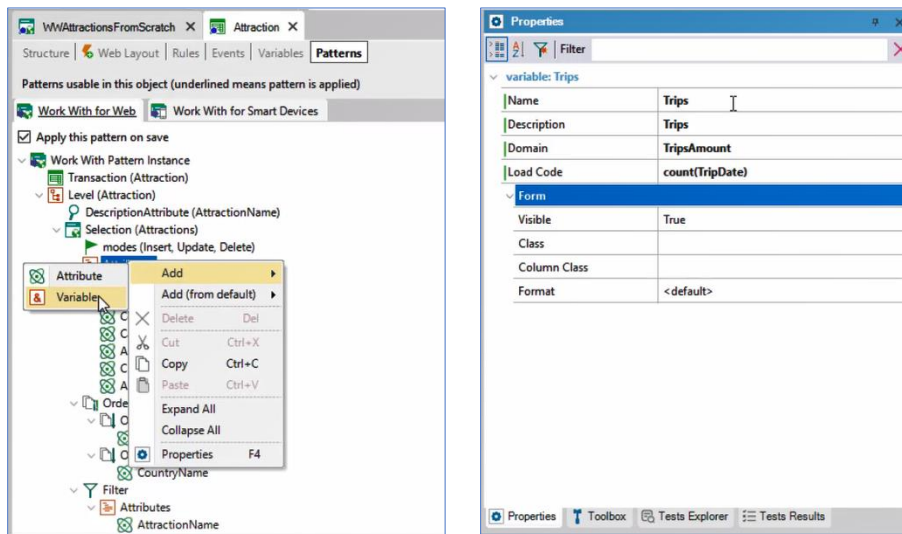
## WWAttractionsFromScratch



We already saw in previous videos how in our Travel Agency application we could add a variable &Trips to our grid , and how to load it for each line from the Load event .

If instead of implementing this on a manually created web panel as we did, we wanted to use the Work With for Web pattern , how would we do that ?

## Pattern Work With for Web



To add the variable , we right - click on the Attributes / Add / Variable node.

We define it through the properties window where we will be asked to name the variable and its domain . Also , we will see that a property named Load Code is displayed .

That's where we specify what value the variable will be loaded with for each line of the grid .

We will enter the Count formula , passing it the TripDate attribute , just as we did from the WebPanel generated by us , since we are interested in counting the number of trips entered for each of the attractions .

## Pattern Work With for Web







### WWAttraction

### In action

```

81 | Event Grid.Load
82 |   $update.Link = Attraction.Link(TrnMode.Update, AttractionId)
83 |   $delete.Link = Attraction.Link(TrnMode.Delete, AttractionId)
84 |   AttractionName.Link = ViewAttraction.Link(AttractionId, "")
85 |   CountryName.Link = ViewCountry.Link(CountryId, "")
86 |
87 |   // Load variable '$Trips'
88 |   $Trips = (count(TripDate))
89 | EndEvent
90 |
91 | Event 'DoInsert'
92 |   Attraction(TrnMode.Insert, nullvalue(AttractionId))
93 | EndEvent
94 |
95 | Sub 'PrepareTransaction'
96 |   &TrnContext = new()
97 |   &TrnContext.CallerObject = &pgname
98 |   &TrnContext.CallerOnDelete = True
99 |   &TrnContext.CallerURL = &HTTPRequest.ScriptName + "?" + &HTTPRequest.QueryString
100 |   &TrnContext.TransactionName = "Attraction"
101 |
102 |   &Session.Set("TrnContext", &TrnContext.ToMail())
103 | EndSub
104 |
105 |

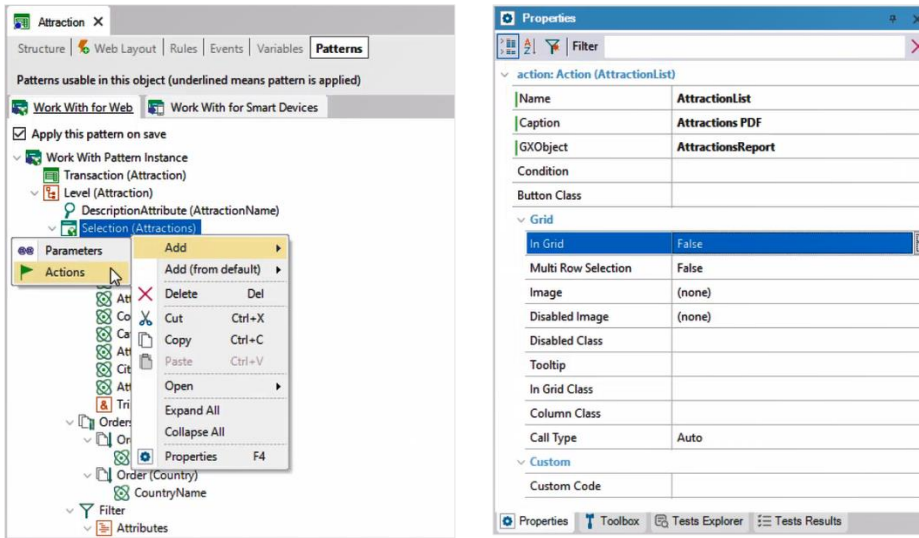
```

ID	Name	Country Name	City Name	Category Name	Photo	Description	Trips		
4	<a href="#">Christ the Redeemer</a>	Brazil	Rio de Janeiro	Monument		An Art Deco statue of Jesus Christ in Rio de Janeiro	2	UPDATE	DELETE
3	<a href="#">Eiffel Tower</a>	France	Paris	Monument		Wrought-iron lattice tower on the Champ-de-Mars in Paris	2	UPDATE	DELETE
6	<a href="#">Forbidden City</a>	China	Beijing	Tourist site		The former Chinese imperial palace and state residence of the Emperors of China from the Ming dynasty	4	UPDATE	DELETE
2	<a href="#">Great Wall</a>	China	Beijing	Monument		The Great Wall of China is a series of fortifications that were built across the historical northern borders of ancient Chinese states and imperial China	3	UPDATE	DELETE
1	<a href="#">Louvre Museum</a>	France	Paris	Museum		The world's largest art museum	5	UPDATE	DELETE
5	<a href="#">Smithsonian Institute</a>	United States	Washington DC	Museum		The Smithsonian Institution is the world's largest museum, education, and research complex	1	UPDATE	DELETE

If we save what we have done in the " instance file " of the pattern and open the web object WWAttraction panel created automatically , we will see that in the Load event of the grid, the pattern placed the code that we indicated to load the variable.

Let's see how it works .

## Pattern Work With for Web



Now , we want to add a text / link / button outside the grid , which allows us to invoke the Attractions Report procedure that we had created to print all the attractions as a PDF.

We add an action at the level of the Selection node that implements the Work With itself.

And by means of the properties we indicate the Caption that it will have, as well as if we want it to be an image instead of a text , if we want it to be outside the grid , or , on the contrary , a button inside the grid , for each line.






And most importantly : what object to invoke as a consequence of choosing action .


## In Action







Attractions

Search:

[+ INSERT](#) [ATTRactions PDF](#)

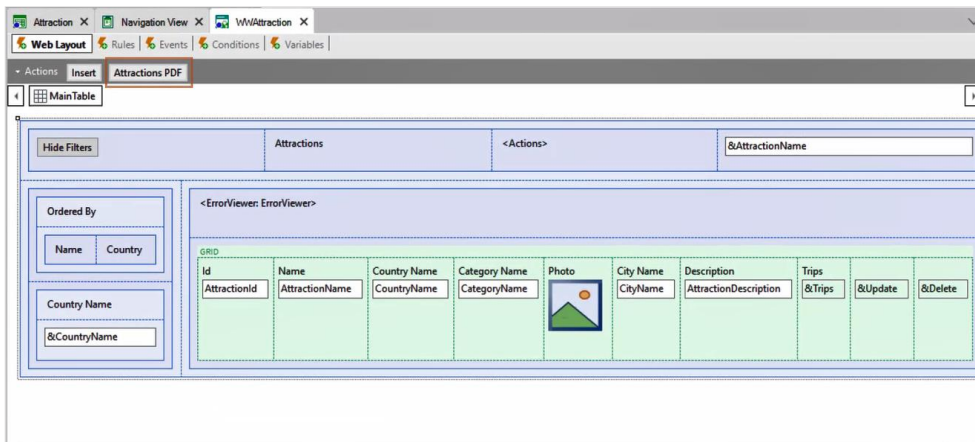
Id	Name	Country Name	Category Name	Photo	City Name	Description	Trips	
4	Christ the Redeemer	Brazil	Monument		Rio de Janeiro	An Art Deco statue of Jesus Christ in Rio de Janeiro	2	<a href="#">UPDATE</a> <a href="#">DELETE</a>
12	Cinque Terre	Italy	Tourist site		Marancia	A string of centuries-old seaside villages on the rugged Italian Riviera coastline	0	<a href="#">UPDATE</a> <a href="#">DELETE</a>
3	Eiffel Tower	France	Monument		Paris	Wrought-iron lattice tower on the Champ de Mars in Paris	2	<a href="#">UPDATE</a> <a href="#">DELETE</a>
7	Forbidden city	China	Tourist site		Beijing	The former Chinese imperial palace and state residence of the Emperor of China from the Ming dynasty	4	<a href="#">UPDATE</a> <a href="#">DELETE</a>
8	Glenfinnan Viaduct	Scotland	Tourist site		Glenfinnan	A railway viaduct on the West Highland Line in Glenfinnan. Located at the top of Loch Shiel in the West Highlands of Scotland, the viaduct overlooks the Glenfinnan Monument	2	<a href="#">UPDATE</a> <a href="#">DELETE</a>

 Attraction List

Id	Name	Country	Photo
4	Christ the Redeemer	Brazil	
1	Louvre Museum	France	
3	Eiffel Tower	France	
2	Great Wall	China	
6	Forbidden city	China	
5	Smithsonian Institute	United State	

We see it running.

## Action bar in WWAttraction



By opening the web panel generated by the pattern, we can see how the action has been included in the Action Bar.

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