

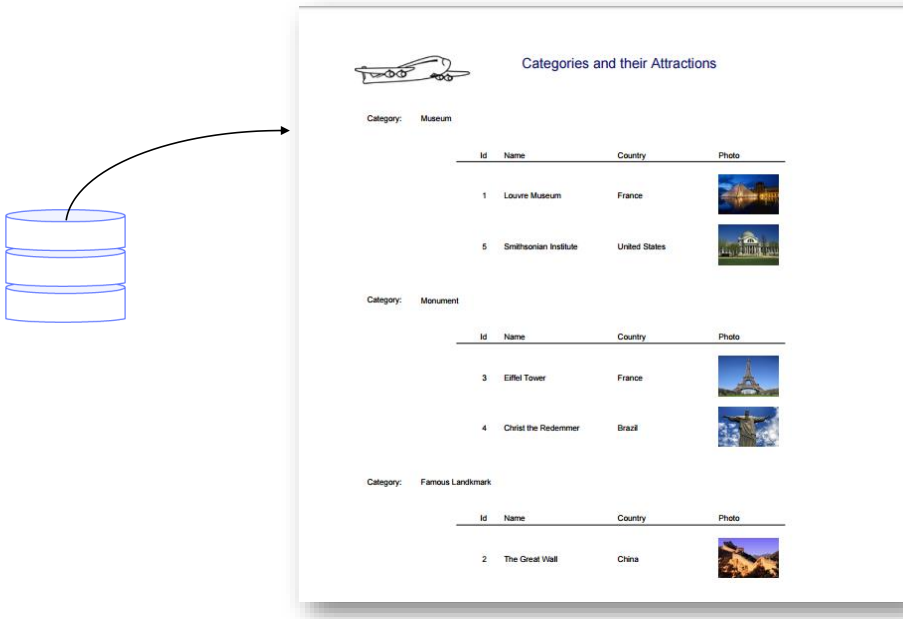
Reporting in GeneXus



When designing applications, it is important and necessary to have the possibility of obtaining reports and statistics to enable proper decision-making.

Here, we will see the possible solutions that GeneXus has to offer for fulfilling that need.

Static reports



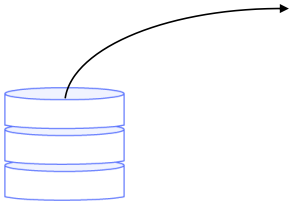
In previous videos, we saw that creating pdf listings enables developers to define, for the case of the travel agency, different queries such as, for example, listing tourist attractions grouped by category, or viewing the attractions in a specific country.

These are then listings that solve a specific logic defined by the developer. That's why we speak of static queries or reports.

However, companies often need to obtain results in a more visual and dynamic manner, with the possibility for a clear comprehension of the data displayed.

For that purpose, GeneXus enables the definition of dynamic queries.

Visual and dynamic reports



City Name	Category Name	Attraction Name	Quantity
Beijing	Famous Landmark	Great wall	1
	Total of Famous Landmark		1
	Monument	Dahilan	1
	Total of Monument		1
	Museum	National Museum	1
Total of Museum		1	
Total of Beijing			3
Curitiba	Famous Landmark	Barigui Park	1
		Botanical Garden	1
	Total of Famous Landmark		2
Total of Curitiba			2
Florence	Building	Palazzo Vecchio	1
		Santa Maria del Fior	1
	Total of Building		2
Total of Florence			2
Hong Kong	Monument	Hong Kong Henness	1
	Total of Monument		1
Total of Hong Kong			1
Lyon	Art Gallery	Galerie Art Club	1
		La Salle de Bains	1
	Total of Art Gallery		2
	Famous Landmark	Fourvielle Hill	1
Total of Famous Landmark		1	

This sort of query allows for the grouping of data according to specific features in order to achieve a visual perspective.

Visual and dynamic reports

Query object + QueryViewer control

The image shows a GeneXus Web Form interface. On the left is a list of 'Extended Controls' including DashboardViewer, FBHoverPanel, FileUpload, GXMediaPlayer, GXProgressIndicator, GXScheduler, HistoryManager, ImageGallery, QueryViewer, and Treeview. The 'QueryViewer' control is highlighted with a blue box and an orange arrow pointing to a table in the main form. The table, titled 'MainTable', displays crop data by continent and country. On the right, a 'Data bindings' panel shows the 'Object' property set to 'QueryObject'.

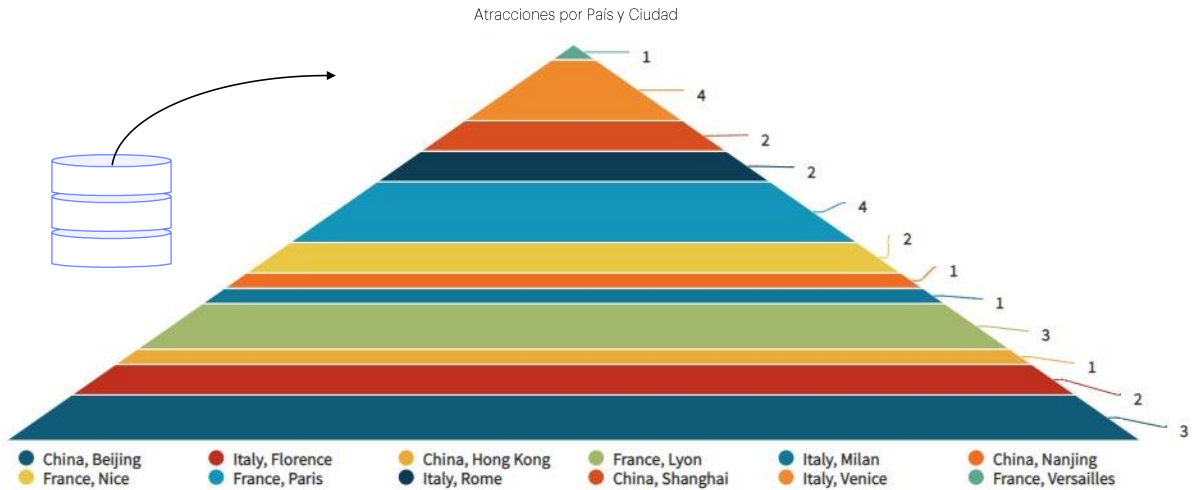
Continent	Country	Soy	Wheat	Rice
Africa	Egypt	285	123	49
Total of Africa		285	123	49
America	USA	302	218	146
	Uruguay	138	108	62
Total of America		500	328	228
Asia	China	210	200	150
	India	300	68	48
Total of Asia		510	268	198
Australia	Australia	395	261	209
Total of Australia		395	261	209
Europe	France	205	213	174
	Spain	275	105	77
Total of Europe		580	318	251
TOTAL		2270	1104	931

Data bindings

Object	QueryObject
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GeneXus offers the possibility of generating that type of queries, which are more dynamic and visual, by using the Query object along with the QueryViewer control, and thus obtaining more comprehensible information as a result.

Visual and dynamic reports



For example, if the travel agency needs to make decisions regarding its destinations and in relation to the number of tourist attractions in each city, and the city with more or less attractions, then it will be necessary to have that information available in a visual manner to allow the agency to make the best options possible.

Dashboard



Finally, the Dashboard object offers an elegant view of various indicators that may be relevant to a certain business process.

With very few steps it is possible to combine information between Query objects or Data Providers, adding and sharing filters

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