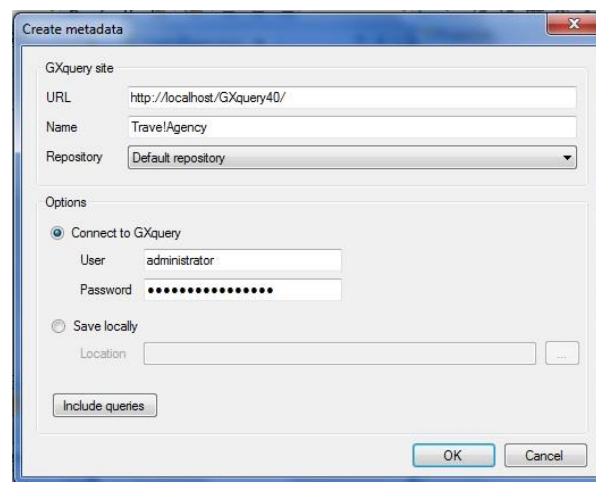# GXquery 4.0 – Overview

Would you like to freely create, on your own, your queries on the state of your sales, and create comparative graphs, or even analyze all that information on Excel afterwards?

Do you want to do this in an agile manner through a web console?

For all applications, it is never possible to know, from the start, all the data needs that end users might have. This is why GXquery offers a simple, agile and powerful way for end users to create their own queries with no programming involved.
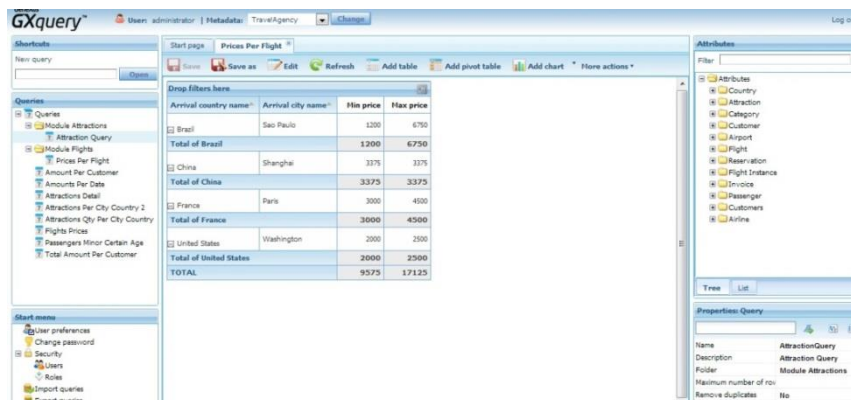
Let us introduce you to GXquery.

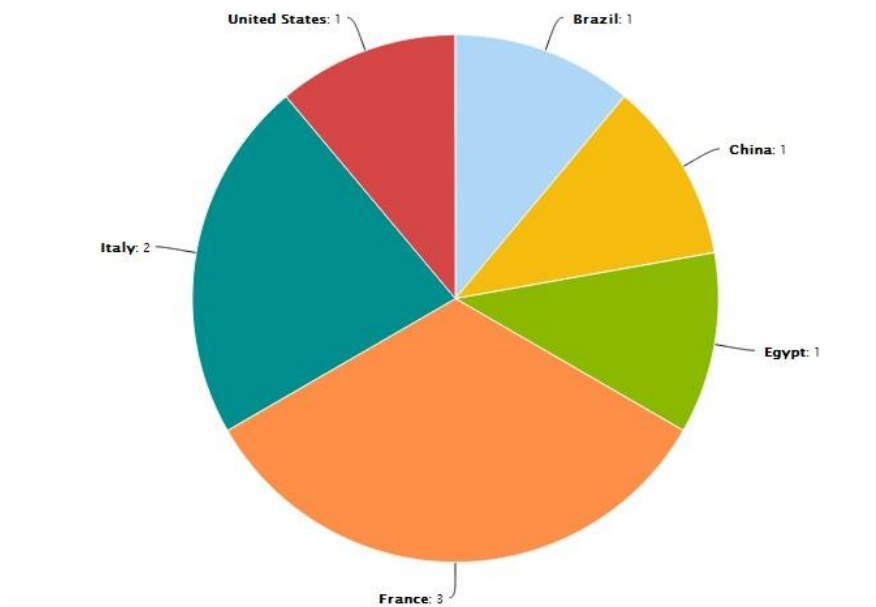Based on the TravelAgency knowledge base we create the GXquery metadata including the query objects defined here…

We access GXquery web…

… and find the queries already included in the metadata…

Video recorded with GXquery 4.0

Based on the structure included in the metadata and on the permits we defined for users we can start designing new queries from the GXquery web console.

To do so we need to graph the number of tourist attractions per country, in sectors.

We also need to graph the total amount of daily invoices through time.

It could be important to view this information on a table, so… let's add a view.

Invoice Amount	Invoice Date
6750	11/04/11
6400	06/07/12
4150	10/24/12
6400	11/22/12
7875	03/20/13
2250	04/11/13
1900	04/19/13
1900	06/05/13
4150	07/10/13
6400	09/11/13
9000	10/10/13
2250	11/03/13
9000	11/04/13
2250	11/12/13
4500	11/13/13
4500	11/14/13

Let's now view, on a pivot table, the total amount invoiced per year, per month and per customer.

Customer Name		Year	Month	Total Amount
Drop filters here				
			August	2250
	⊟	2013	October	4500
⊟ Ann Smith			November	2250
	Total of 2013			9000
Total of Ann Smith				**9000**
	⊟	2011	November	6750
	Total of 2011			6750
	⊟	2012	November	6400
⊟ Artech	Total of 2012			6400
	⊟	2013	July	4150
			September	6400
	Total of 2013			10550
Total of Artech				**23700**
	⊟	2013	November	2250
⊟ Danielle Smith	Total of 2013			2250
Total of Danielle Smith				**2250**

But we are only interested in viewing 2012 and 2013

And also, to make the analysis easier, we want to automatically view in red all values below 5000m and values above 8000 in blue.

Customer Name	Year	Month	Total Amount
Ann Smith	2013	August	2250
		October	4500
		November	2250
	Total of 2013		9000
Total of Ann Smith			**9000**
Artech	2011	November	6750
	Total of 2011		6750
	2012	November	6400
	Total of 2012		6400
	2013	July	4150
		September	6400
	Total of 2013		10550
Total of Artech			**23700**
Danielle Smith	2013	November	2250
	Total of 2013		2250
Total of Danielle Smith			**2250**
	2009	December	4500

So, what does this yearly total per customer comprise? Let's see the detail…

Customer Name	Year	Month	Invoice Id	Invoice Date1	Total Amount
Drop filters here					
Ann Smith	2013	August	31	08/08/13	2250
			Total of 31		2250
			32	08/04/13	2600
			Total of 32		2600
		Total of August			4850
		October	30	10/16/13	4500
			Total of 30		4500
		Total of October			4500
		November	26	11/14/13	2250
			Total of 26		2250
		Total of November			2250
	Total of 2013				11600
Total of Ann Smith					11600
	2011	November	16	11/04/11	6750
			Total of 16		6750
		Total of November			6750
	Total of 2011				6750

We are also interested in saving this query in a different format. Let's export to pdf format.

Customer Name	Year	Month	Invoice Id	Invoice Date1	Total Amount
Ann Smith	2013	August	31	08/08/13	2250
			Total of 31		2250
			32	08/04/13	2600
			Total of 32		2600
		Total of August			4850
		October	30	10/16/13	4500
			Total of 30		4500
		Total of October			4500
		November	26	11/14/13	2250
			Total of 26		2250
		Total of November			2250
	Total of 2013				11600
Total of Ann Smith					11600
Artech	2011	November	16	11/04/11	6750
			Total of 16		6750

Video recorded with GXquery 4.0

Once obtained, it may be convenient to use this information from an Excel worksheet …

With the Add-in for Excel we connect to the same metadata where we have defined the queries and execute them from Excel in the native format of pivots, tables or graphs. This enables users who are used to Excel to have all the data they need in the working environment they use on a regular basis.

Let's see this…

In a few minutes we saw how, from the same knowledge we have in GeneXus it is possible to create metadata in GXquery and start creating queries on the system's database in a very simple manner and also allowing users the necessary productivity when they need the information to make everyday decisions in their work.