spatialite_gui 1.4.0 release notes

Please note: the app name is (*slightly*) changed, and now is **spatialite_gui** In previous versions it was *spatialite-gui* instead (an underscore has now replaced an hyphen).

Long running queries:

🛃 spatialite-gui [a GUI tool for SQLite/SpatiaLite]							
Files							
/ # 8 4 6 6 4 6 8 8	🔯 🙆 🎯 🛃 📄	🖪 🛃 🗢 🔂 🔕 (A 🛛 🖉 🛃				
F:\vanuatu\geonames\worl GeoNames GeoNames GeoNames GeoNames GeoName	<pre>SELECT * FROM GeoNames WHERE PtDistWithin(Geometry, MakePoint(11.87691, 43.46139, 4326), 10000.0) = 1;</pre>						
population							
◎ elevation 	Progress Counter C	Current Value					
ggi_GeoNames_Geo	1 FullscanStep	3126782					
	2 Sort	0					
	3 Autoindex	0					
	4 FetchedRows	53					
giu_GeoNames_Geo	5 ElapsedTime	7.000					
allCountries							
🗄 🖉 geom_cols_ref_sys							
geometry_columns geometry_columns_aut							
idx_GeoNames_Geomet							
idv_GeoNames_Geomet		wait please: SQL que	ery in progress				
Current SQLite DB: F:\vanuatu\geonames\world.sqlite							

When a long running query is under execution, the GUI will be updated *twice per second*, and a **progress report** will be shown:

- 1. *FullscanStep*: this is the total number of read ops performed as *full table scans*.
- 2. *Sort*: this is the total number of sort ops.
- 3. *Autoindex*: the SQLite core will silently build a temporary index as a desperate attempt to optimize heavy queries.

3.1. For all them, abnormally high values *may* indicate that defining some further index is required in order to optimize this query.

- 4. *FetchedRows*: this is the total number of valid rows fetched since query start.
- 5. *ElapsedTime*: expressed as *HH:MM:SS.millis* since query start

An **abort button** allows to safely terminate the current query with no negative consequences.

Map preview and Statistic snapshot:

💰 spatialite-gui 🛛 [a GUI tool for SQLite/SpatiaLite]					
Files					
F:\vanuatu\geonames\wor GeoNames GeoNames Morel GeoNa					
elevation Column: GeoNames.population					
Geometry Refresh					
ggu_GeoNa Drop Column					
gii_GeoNar Giu_GeoNa Giu_GeoNa Map Preview Geom_cols_ref Extent					
geometry_colu Set SRID					
geometry_colu Recover geometry column					
Statistic snapshot					
Current SQLite DB: F:\vanuatu\geonames\world.sqlite					

these new tools are available at *column level* in the context menu (*right button click*).

Map preview:



If the selected column actually contains at least one valid geometry, you can use the *map preview* tool (the column is not required to be registered in **geometry_columns**).

The whole layer will be drawn: you are allowed to set (simple) graphics rules.

And you can **export** the map preview in several formats:

- you can copy the preview to the clipboard.
- you can export a PNG image
- you can export a SVG vector graphic file. You can easily visualize any SVG file simply using your Web Browser (with the remarkable exception of Microsoft Explorer, that is completely unable to render SVG files)
- you can export a PDF (A4, 300dpi) document.

Statistic snapshot:

Table name:	PopulatedPlaces	-			
Column name:	elevation				
Total values:	19888	-			
NULL values:	408				
INTEGER values:	19480				
Data distribution snapshot					
	DISTINCT values: 1782				
Data range					
Min: 1	Max: 3045				
Average: 397.1364					
-Standard dev	iation				
Pop: 412.	3673 Samp: 412.3779				
-Variance					
Pop: 1700	46.791 Samp: 170055.5207				
Show chart Exit					

The column's values distribution will be evaluated: if the column actually contains numeric values, the standard statistics parameters are reported.

Table name:	GeoNames
Column name:	country
Total values:	7252292
NULL values:	5391
TEXT values:	7246901
	Data distribution snapshot
	DISTINCT values: 249
	Show chart Exit

In any other case the number of distinct values will be reported.

Then you can go to second step pressing the **Show chart** button.





A Chart preview is shown: several different flavors are supported.

And you can **export** the chart preview in several formats:

- you can copy the preview to the clipboard.
- you can export a PNG image
- you can export a SVG vector graphic file. Again, you can easily visualize any SVG file simply using your Web Browser (MSIE excluded, obviously ...)
- you can export a PDF (A4, 300dpi) document.

Shapefile import now supports immediate Spatial Index generation:

Path:	F:\vanuatu\jst	tat\comuni\com 1981		
Table name:	com 1981			
GeomColumn name:	Geometry			
	-Charset Encod	ing		
	BIG5-HKSCS	-1999		
		BIG5-HKSCS: 2001		
	CP850	DOS/OEM Western Europe		
	CP862	DOS/OEM Western Europe DOS/OEM Hebrew	=	
	CP862 CP866	DOS/OEM Cyrillic		
	CP874	DOS/OEM CYTITIC DOS/OEM Thai		
	CP932	DOS/OEM Japanese		
SRID: 32632	CP932 CP936	DOS/OEM Sapanese DOS/OEM Chinese		
	CP938 CP949	DOS/OEM Chinese DOS/OEM Korean		
	CP949 CP950			
	CP350 CP1133	DOS/OEM Chinese/Big5 Laotian		
	CP1133 CP1250			
	CP1250	Windows Central Europe		
	CP1251 CP1252	Windows Cyrillic Windows Latin 1	_	
	CP1252	Windows Greek	-	
	CP1253	Windows Greek	-	
Geometry storage Coerce 2D geometries [x,y] Apply geometry compression With Spatial Index (R*Tree) OK Cancel				

Last but not least: when you import some Shapefile, you can now immediately create an R*Tree Spatial Index supporting the Geometry column.