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							
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F:\vanuatu\geonames\worl F:\vanuatu\geonames\worl GeoNames GeoNames GeoName Geoname Geoname Geon	<pre>SELECT * FROM GeoNames WHERE PtDistWithin(Geometry, MakePoint(11.87691, 43.46139, 4326), 10000.0) = 1;</pre>						
Geometry	Progress Counter	Current Value					
ggi_GeoNames_Geo	1 FullscanStep	3126782					
	2 Sort	0					
gid_GeoNames_Geo	3 Autoindex	0					
gii_GeoNames_Geor	4 FetchedRows	53					
giu_GeoNames_Geo	5 ElapsedTime	7.000					
I allCountries							
geom_cois_rer_sys							
geometry_columns aut							
idx GeoNames Geomet							
A main and the second s		wait please: SQ	L query 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 id ● name ● type ● country ● population						
elevation Column: GeoNames.population						
Geometry Refresh						
ggu_GeoNa Drop Column						
gii_GeoNar Giu_GeoNa Giu_GeoNa Map Preview allCountries Extent						
geom_cols_ref 						
geometry_colu 						
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 distributi	on 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			
	BTG5-HKSCS	-1999			
	BTCS-HKSCS	PIGS-HKSCS-1999			
	CDOED	DOS/OFM Western Furene			
	CP050	DOS/OEM Western Europe	=		
	CDOCC	DOS/OEM Repres			
	CP000	DOS/OEM Cyriffie			
	CP0/4	DOS/OEM INAL DOS/OEM Inspace			
SBID: 32632	CP932	DOS/OEM Japanese			
	CP936	DOS/OEM Chinese			
	CP949	DOS/OEM Korean			
	CP950	DOS/ORM Chinese/Bigs			
	CP1133	Laotian Mindaun Control Europa			
	CP1250	Windows Central Europe			
	CP1251	Windows Cyrillic	_		
	CP1252	Windows Latin I	-		
	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.