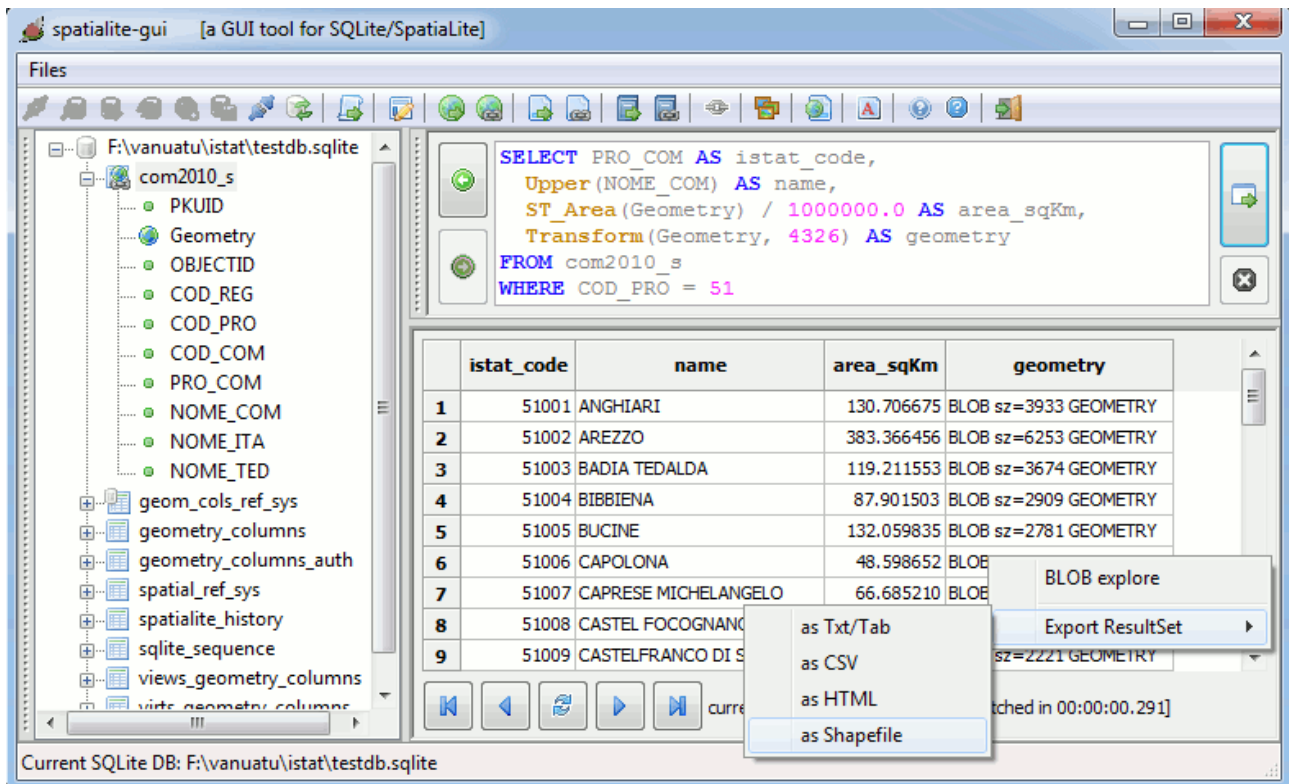# spatialite_gui-1.4.1
libspatialite v.2.4.0-RC5 Experimental

UPDATE

Following am useful suggestion advanced by Romain Riviere, a further feature is now supported.

You are now enabled to export any generic ResultSet as:
- a TXT/TAB file
- a CSV file
- a HTML web page
- a Shapefile

In order to access this new feature you simply have to *right-click* somewhere on the ResultSet panel, then activating the corresponding context menu option.

Please note well: a ResultSet can be actually exported as a Shapefile only if all the following conditions are satisfied:
- the ResultSet must include one (and only one) Geometry column
- all Geometries within such column must have the same GeometryType, SRID and Dimensions

Under any other different condition Shapefile export will not be allowed.

Just a quick&fast example

You can start simply creating a new VirtualShape.
For my test I've actually used the **com2010_s** shapefile (Italian 2010 census from ISTAT: exactly the same dataset often referenced into the Cookbook).

```
SELECT PRO_COM AS istat_code,
  Upper(NOME_COM) AS name,
  ST_Area(Geometry) / 1000000.0 AS area_sqKm,
  Transform(Geometry, 4326) AS geometry
FROM com2010_s
WHERE COD_PRO = 51;
```

The above SQL query applies several transformations to the original Shapefile:
* only few columns are selected into the ResultSet, whilst many others are simply ignored
* columns name will be changed into the ResultSet
* any local council name will be capitalized
* a brand new **area_sqKm** column will be calculated
* coordinates will be transformed as **4326 WGS84 long/lat**: they were originally placed into the **23032 ED50 / UTM zone 32N** Spatial Reference System
* and finally only local councils belonging to the County of Arezzo [**cod_pro = 51**] will be inserted into the ResultSet.

In a simple word: this ResultSet represent a strongly transformed (and restricted) derivative of the original one.

But now you can immediately save a new Shapefile simply performing few mouse clicks.

So this latest feature allows you using **spatialite_gui** in the role of an incredibly simple (*but extremely flexible and powerfull*) SQL-based **filter tool**.
And you can now derivate any new Shapefile from an existing one accordingly to your actual requirements in the simplest and most immediate way.