

Saving Measured Values Into Database in MarushkaDesign



GEOVAP

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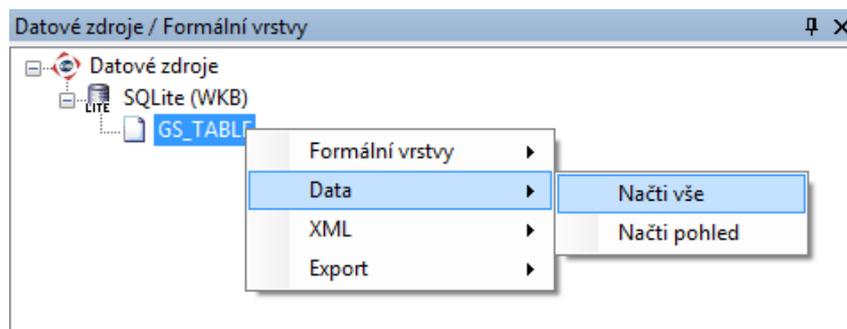
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1 Aim of the Example

In this example we will demonstrate how to set a project in MarushkaDesignu, so that the values of drawn element are saved into database. This example was created in version 4.0.2.0 and it does not have to be compatible with older versions.

2 Working with Example

- Unzip the **Measure_EN.zip** into **c:\MarushkaExamples** folder. The target folder must be respected due to interconnection of paths with the project. In case of placing the files in the different folder, it would not be possible to work with an example.
- In MarushkaDesignu environment open the project **Measure_EN.xml**.
- Select form layer **GS_TABLE**, in the context menu choose Data – Load All:



- In map window choose „Fit All“:



- Launch the local web server:



3 Dialog Box Sample

Fig 1: Resulting map window example in Marushka with opened panel Draw

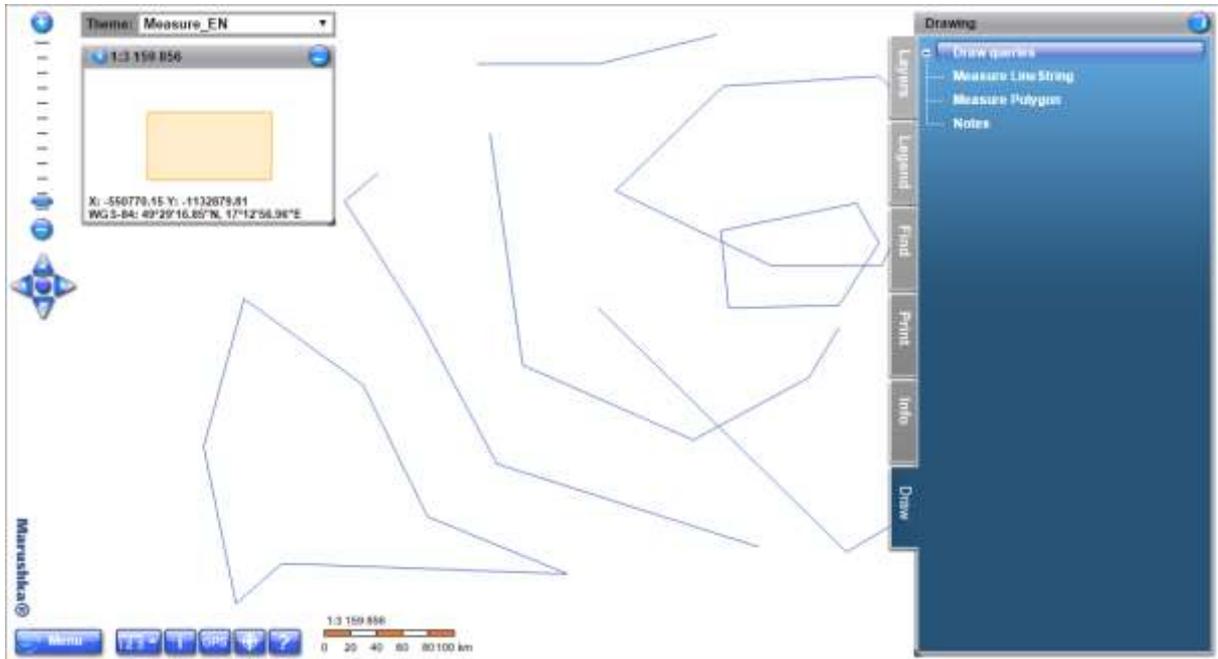


Fig 2: Example of values saved in the database in SQLite Expert Personal manager

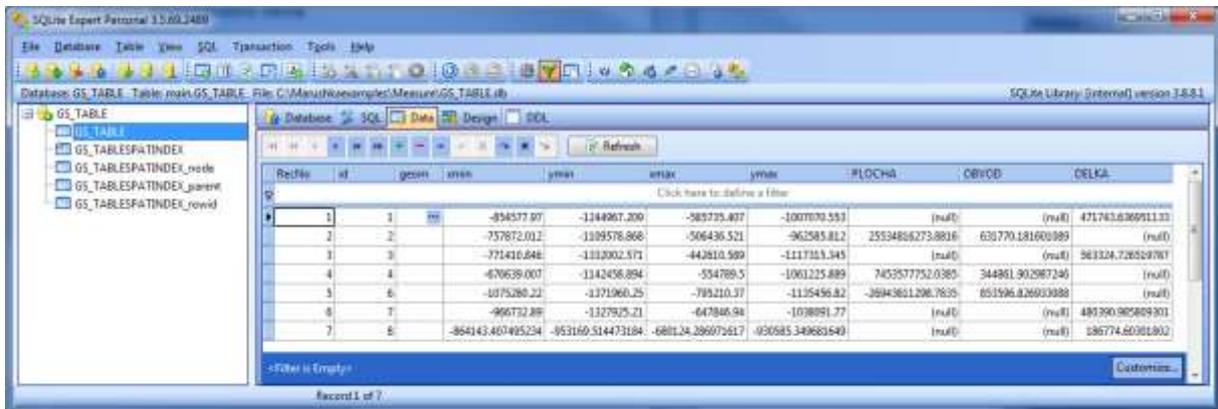
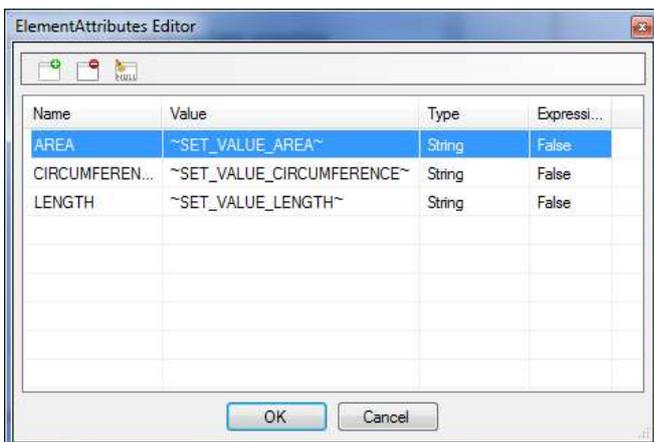


Fig 3: Example of attributes *ElementAttributes* for query Measure polygon in MarushkaDesign



4 A Brief Description of the Example in MarushkaDesign

This test example contains SQLite database with one form layer GS_TABLE. Apart from geometric columns, this table contains columns of numerical type AREA, CIRCUMFERENCE and LEGHT, into which will be saved the measured values.

In the query library are defined 5 queries.

The first query is called *Delete element*, which is used to delete any element from the database.

The second query is called *Measure LineString*, which is a drawing query. It is linked with the etalon item *Measure linestring*, which the user can have a look in item *Etalon settings* in query properties.

The third query is called *Measure polygon*, it is also a drawing query. It is connected with etalon item *Measure polygon*, it is evident in item *Etalon settings* in query properties.

The fourth query is called *Information* and it displays all the values from the GS_TABLE table for the object with given ID.

The last query is an example of Update query and it is called *Edit note*. It is displayed in panel and allows editing note for the given element.

The query library includes two items.

The first item is *Measure linestring* having in the item *ElementAttributes* a string `~SET-VALUE_LEGTH~`, `~SET_VALUE_CIRCUMFERENCE~` and `~SET_VALUE_AREA~` which will ensure saving the values into the given columns of the database table.

The second item is *Measure polygon*, having set the same settings as an item *Measure linestring*, but it has obviously set a different type of geometry (WKBPolygon).

After starting a local web server, it is then possible to click in panel *Draw* to click on item *Measure LineString*, allowing drawing arbitrary lines. This line is then saved into database and is then supplemented by with the value of its length to the column LENGTH. This item has no circumference or area, so into these columns is for this element saved value Null.

The second item is called *Measure Polygon*, which works analogously to the previous query. It allows to draw a polygon, which is stored into the database and to this element are assigned values AREA and CIRCUMFERENCE.

If the user wants to delete any element from the database, so he clicks on the PreSelect  icon and clicks on the element he wants to delete. Then the dialog box pops up asking if you really want to delete the selected element. After confirmation, the element is deleted from the database.