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Version History

Date	Version	Revision History	Author
17/07/2013	1.0		José Sahle Netto

Abastract

This paper aims to present the features of **SHLStudio** and plug-in **Stored Procedures And C# Code Generator**.

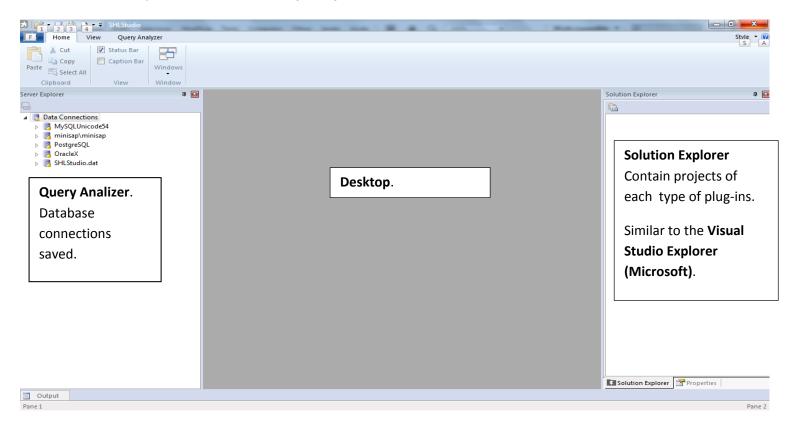
The design **SHL Studio** is written in C++ using MFC classes.

This project is in testing phase, which I'm testing and correcting faults.

SHLStudio

The **SHLStudio** system is an IDE that has the purpose of docking functionality via plug-ins.

The system has a built-in Query Analyzer.

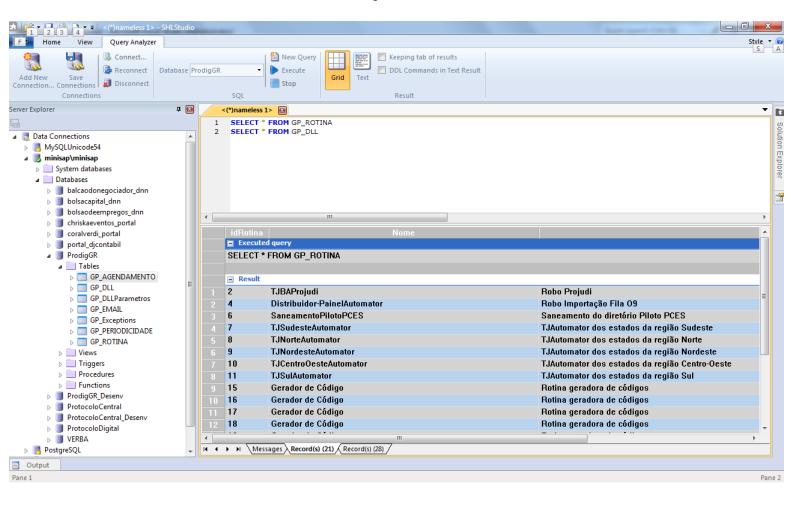


Indicated at left area are the connections made to the databases (MS-SQL Server, Oracle, MySQL, PostGeSQL, and any other via OLE DB).

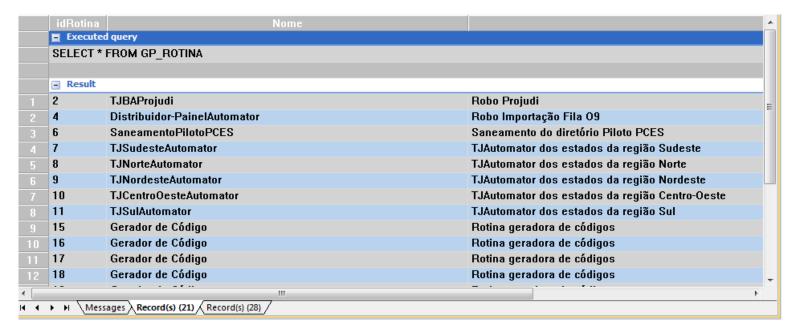
Have a workspace, where **script** editors will bel opened. This site will also be used to open the features of the **plug-ins**.

Finally, on the right is the **SOLUTION EXPLORER**, which will manage the projects of each type of plug-in. These projects will be grouped within a similar solution to the **Micrisoft Visual Studio**.

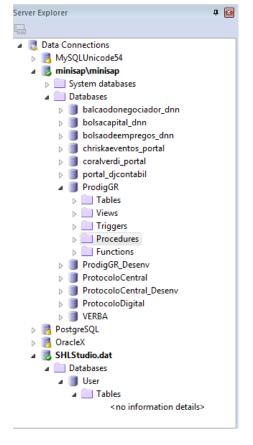
Query Analizer



The *Query Analizer* has many similar to *SQL Server Management Studio* functionality, but extended to any databases supported by OLE DB.

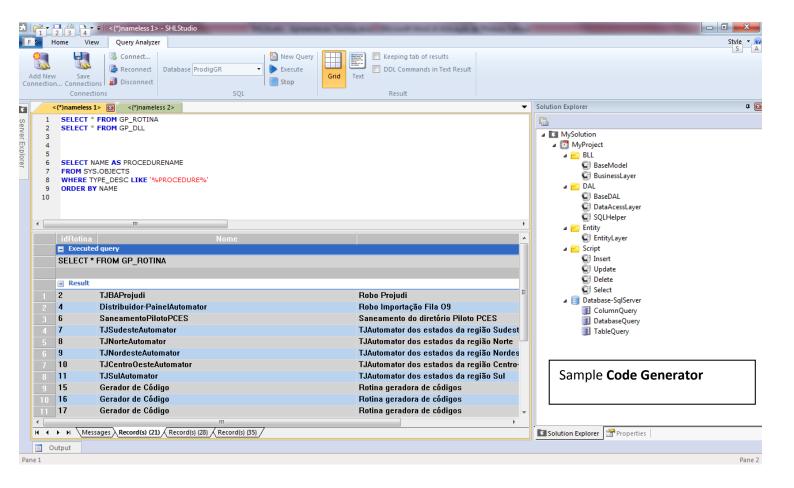


Unlike *SQL Managemente Studio* when there are more than one recordset are not shown below each other. In these cases the results will be presented in separate tabs. Another importante detail is the on top of the result grid, there is the sentence that generated the result, so with multiple queries, it is easy identify the both, query and result.



In the Server Explorer has additional information as:

- Tables
- Views
- Triggers
- Functions
- Procedures

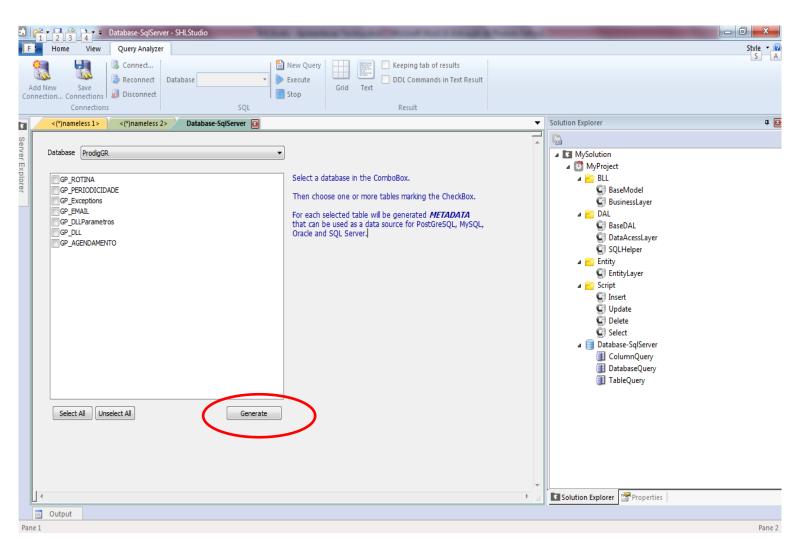


The **Solution Explorer** has the design of a particular plug-in. Within the solution will be possible to have differentes desings plug-ins.

C# Code Gerator

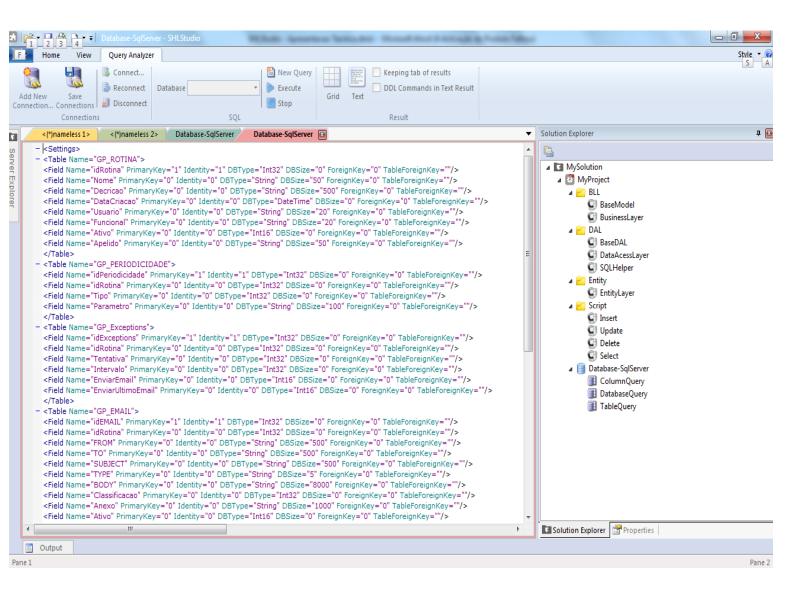
The generator *plugin* for **C# code** is a routine that generates **C#** code for the three (3) main layers (*entity, business* and *data*). This plug-in also generates **stored procedures** used in <u>data</u> <u>layer</u>.

You can extend the funcionality of the Code Generator because it generates based on databases and tables using tags in replacement of *template files*.

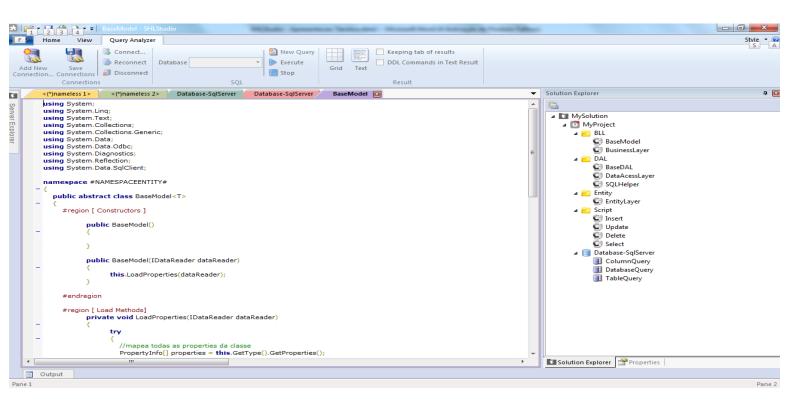


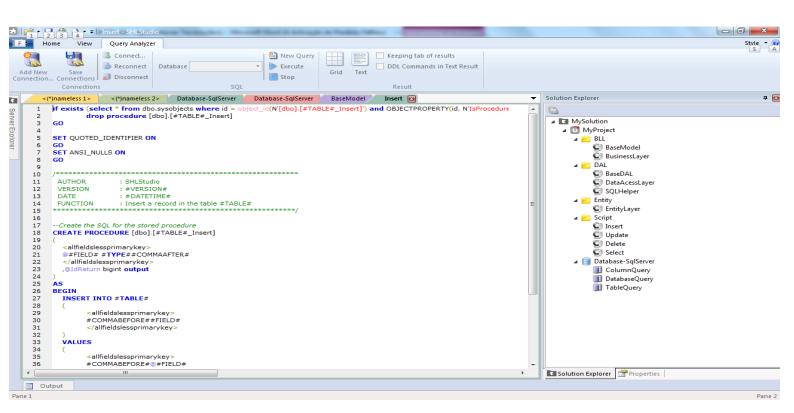
The **Database-SqlServer** entity is actually a metadata generated from a connection with a particular database, which can be (Oracle, PostGreSQL, MySQL and MS-SQL Server).

From these connections generates a metadata representing the database, which is an XML file, and can be edited externally, although in most cases threre is no need to do.



Above is the result of the XML metadata generated from a database and its tables previously selected.

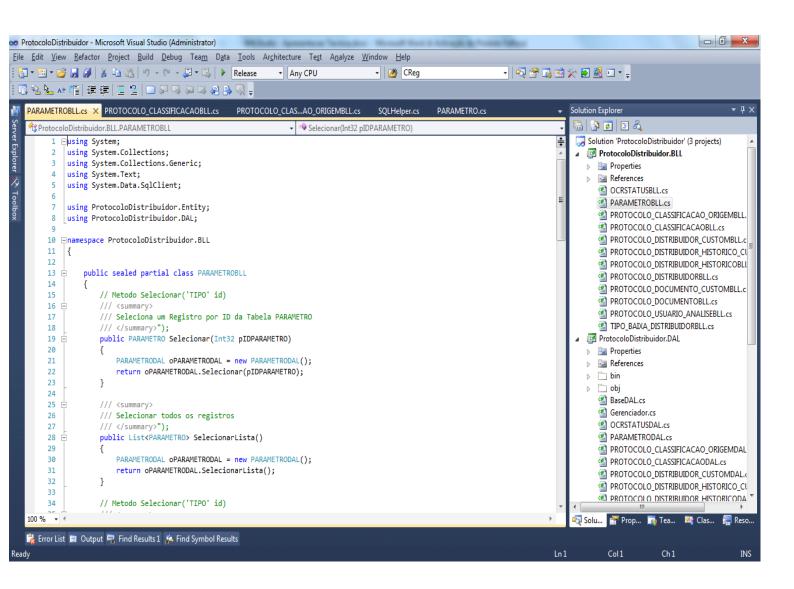




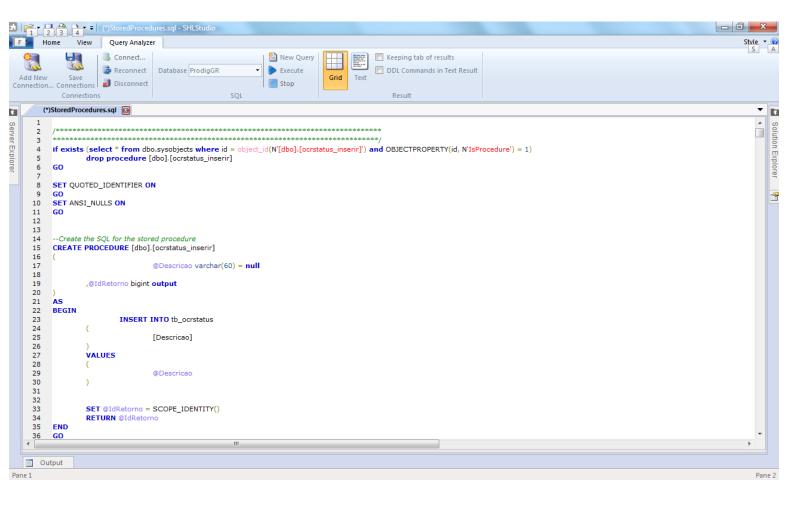
The code generated for C# project are made from templates using *tags* that replace the elements of selected tables and generates the appropriate code.

Example of Generated Code

Below an example of code generated from the plug-in **Code Generantor**.



The classes listed in this project were created by the **Code Generator**, which did not take even 1 minute, cosidering the selection of tables and the "order" to generate the classes.



Stored procedures were also generated at the same time.

Totaling 12 selected tables and resulting int 36 C# files (entity, busines and data), and 60 stored procedures (insert, update and delete queries).