SQLServerToKml is a library that can be used to create KML documents from SQL Server 2008 geography data type instances. The KML documents can be used with Google Maps or Bing Maps.

The library uses the Google Earth KML API for .NET (ge-kml) for the underlying KML persistance. The ge-kml distribution is included as part of this projects, and you can also get the original source code from Sourceforge.NET at <http://sourceforge.net/projects/ge-kml/>.

AsKML – 4 overloads. These are .NET extension methods on the SqlGeography data type. The project TestSqlKml contains a really simple example of the usage.

SqlGeogCommandToKmlDoc – Takes a SQL Server connection string and command string and KML document name. Returns a geDocument instance. The command string should return three columns in the following order: geography column, string to be used as placemark name, string to be used as placemark description. The first row returned will be converted to a gePlacemark instance.

SqlGeogInstanceToKmlDoc – Takes a SQL Server geography instance, KML document name string, placemark name string, and placemark description string. Returns a geDocument instance.

SqlGeogCommandToKmlDoc – Takes a SQL Server connection string and command string and KML document name. Returns a gePlacemark instance. The command should be formatted in the same way as SqlGeogCommandToKmlDoc. Only the first row returned is processed.

SqlGeogCommandToKmlFolder - Takes a SQL Server connection string and command string and KML folder name. Returns a geFolder instance. The command should be formatted in the same way as SqlGeogCommandToKmlDoc. Each row in the resultset will be returned as a placemark within the folder.

Except for AsKML, the methods return object instances from the ge-kml library because no additional formatting, file attachments or other KML information is supplied by the methods. So the objects returned can be decorated and extended with whatever additional information you want. For more information about the API, see the included example programs.

I’ve included three additional examples in the Examples project, as well as a simple TestSQLKML console application to show the usage of AsKML. The rest of the example are from the original ge-kml project. The Examples project requires that Google Earth application, which you can get here: <http://earth.google.com/download-earth.html>

This library has not been tested yet in SQLCLR, although it doesn’t do anything that would preclude it from working. Because it uses System.Drawing, however, it would need to be cataloged to SQL Server as UNSAFE.

Comments and Suggestions on the API should be posted to the discussion page.