

Training Course Overview

SQL Spatial

Duration

1 day

About This Course

With the advent of SQL2008 it is now possible to store object geometry within the SQLSERVER database. This provides greater possibilities with regards to spatial operations within a database environment. This hands-on course demonstrates how to use the SQL spatial commands to their full extent, create spatial queries and explore the possibilities of using the SQL geometry data type. It is designed to provide GIS or Database Administrators with an additional skill set that will further enhance their ability to analyse within a spatial context.

Who Should Attend?

This course will benefit advanced spatial professionals and Database Administrators.

Course Objectives

The purpose of the course is to facilitate achieving the following objectives:

- Better understand the SQL Server Management studio from a spatial perspective.
- Create more advanced SQL queries.
- Understand the importance of spatial indexing.
- Manipulate geometry within the database.
- Use ogr2ogr to upload and download spatial data within the database.
- Incorporate SQL Spatial commands within existing structures.

Course Prerequisites

Prior understanding of SQL, databases and basic GIS functionality would be highly beneficial.

Other Related Courses

Nil

Course Content

During this course participants will be given the opportunity to learn:

- Overview of the SQL server
- Spatial datatypes and tables
- Geometry Vs geography
- Uploading, maintaining, deleting and restoring spatial data
- Spatial indexing
- Views (thematic, complex joins)
- Stored procedures
- SQL spatial commands
- Well Known Text

- Well Known Binary
- SRID
- Intersections
- Buffers
- Extracting coordinates
- Union and aggregate unions
- Minimum bounding rectangle
- Distance
- Nearest calculations
- Measuring (length, area)