



Connecting Information to Your World

# Why Spatial SQL Matters: A Primer on the Technology

24<sup>th</sup> Annual IMAGIN Conference  
08 June 2015

Brooks E. Kelley, Senior Consultant  
Jason Wagester, Senior Developer

## InfoGeographics, Inc.

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- **Full Service GIS Company**
  - Strategic planning and implementation
  - System design, installation, & configuration
  - Specialists in ArcGIS (Business Partner since 2001)
    - Geodatabase - enterprise, standalone
    - Web Mapping – ArcGIS for Server, Geocortex
    - Custom Extensions
  - Application development and commercial GIS software
  - Data conversion & refinement – GIS, CADD, Analog
  - Training & onsite/remote support
  - ***Latitude Geographics Authorized Implementer***

## What is “Spatial SQL”

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- Back in the mid 1990s, major RDBMS companies began implementing standards-based Spatial Data Types in their databases.
- Essentially stores/integrates spatial data (points, lines, polygons, etc.) into the database.
- Provides opportunities to directly access and query such data using both traditional GIS applications (such as ArcGIS Desktop) as well as other, non-GIS applications using Structured Query Language (SQL).

## Pros & Cons

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- *Extremely good performance* – Because you’re “closer to the metal”, Spatial SQL can query and return results from millions of records rapidly. This is what RDBMS do!
- Common, standards-based, and understandable language.
- Can be applied multiple times across different geographies.
- Currently, difficult to integrate with traditional GIS applications, especially web mapping.

## Leveraging Spatial SQL with Essentials

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- Geocortex Essentials provides a solid and proven basis to integrate Spatial SQL queries via Workflow Designer.
- Serves as a bridge between this embedded enterprise database feature/functionality and web mapping/reporting!
- The demo will use familiar data (parcels/sales) to:
  - Show how Spatial SQL works
  - Integrate Spatial SQL queries into GE workflows
  - Aggregate and present data across multiple geographies



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