



# Alpha Anywhere

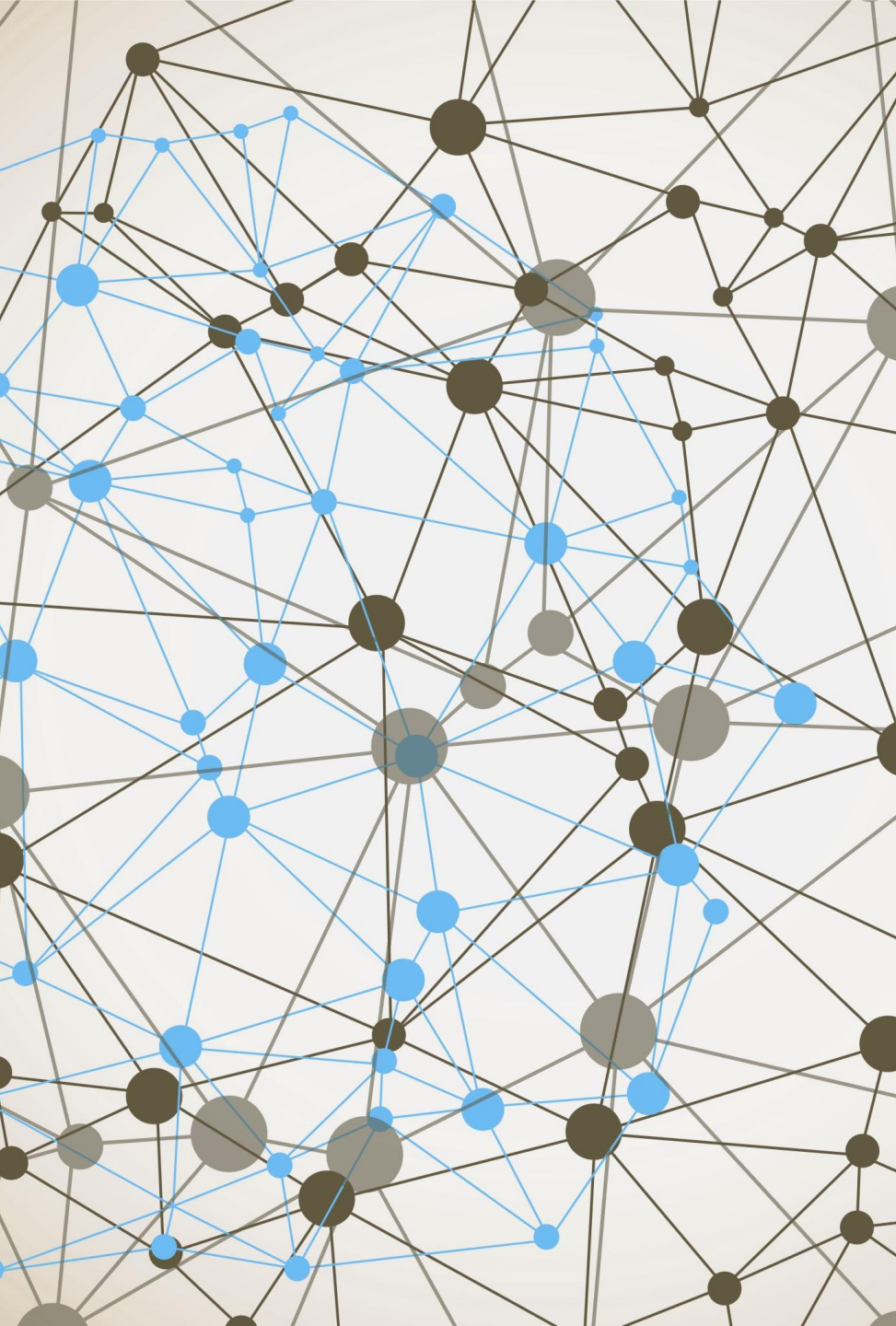
## Q&A

February 9, 2022

The background of the slide features a network diagram. It consists of several small, colored circular nodes (blue, green, yellow, and red) connected by thin, dark lines. The nodes are scattered across the frame, with some in sharp focus and others blurred, creating a sense of depth. The overall aesthetic is clean and modern, suggesting a digital or data-driven environment.

# Geography Search

Querying geospatial data to gain insights and drive better decisions



# Geospatial Data

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- Information that describes objects, events, or other features with a location on or near the Earth's surface.
- Geospatial Data includes locations, line segments, and polygon data

# Storing Geospatial Data



**Data stored as a Geometry or Geography data type**



**Database Support:**

SQL Server

Oracle

DB2

PostgreSQL

MySQL



**Support varies significantly between different database systems**

# Geography Search - Grids

- Built-in support for performing Search against Geometry/Geography fields in a database
- Two search types supported: Polygon and Radius
- Search Field defined as a Map



# How is the Search Query implemented?

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- Portable SQL Geography Functions:
  - GeogLocationIsWithinRadius()
  - GeogLocationIsWithinPolygon()
- Supporting Functions:
  - GeogCreateLocation()
  - GeogCreatePolygon()