MICHIGAN STATE UNIVERSITY

Alpha Presentation

Modern Online Analytical Processing Cube

The Capstone Experience

Team Urban Science

Ryan Kelly
Nathan Goodrich
Dinesh Banda

Department of Computer Science and Engineering
Michigan State University

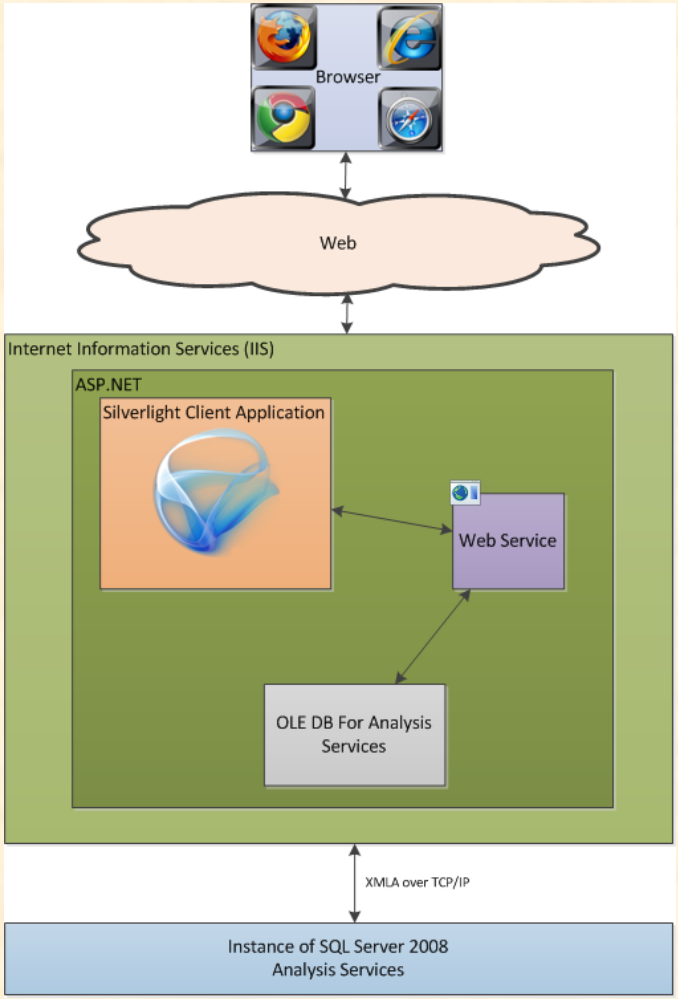
Fall 2010

From Students…
…to Professionals

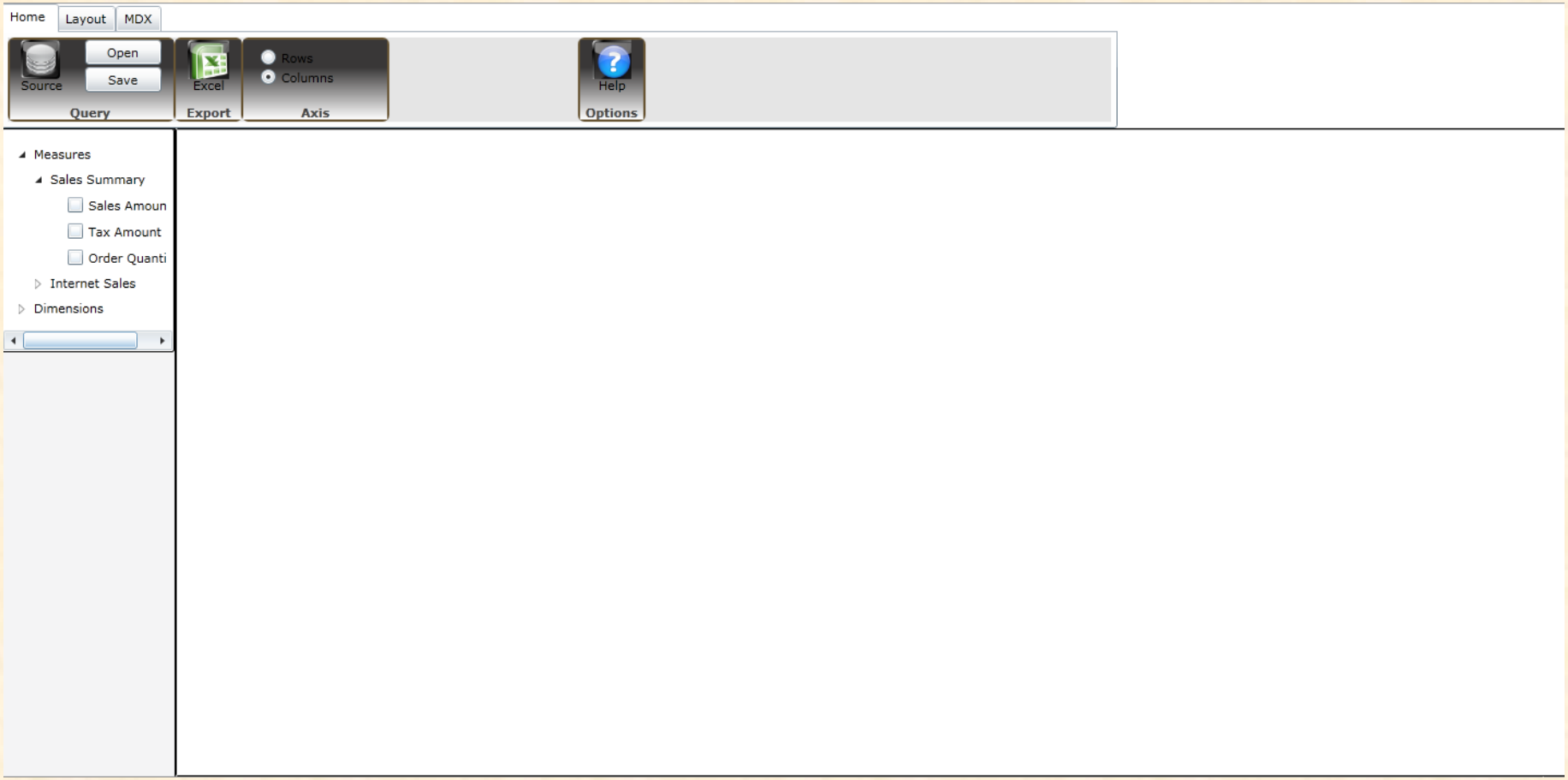
Project Overview

- Create a tool to quickly and efficiently query specific data amongst large databases to provide detailed and aggregated statistics
- Implement an OLAP cube as analysis object
- Create powerful, but easy to use GUI to display and manipulate OLAP cube

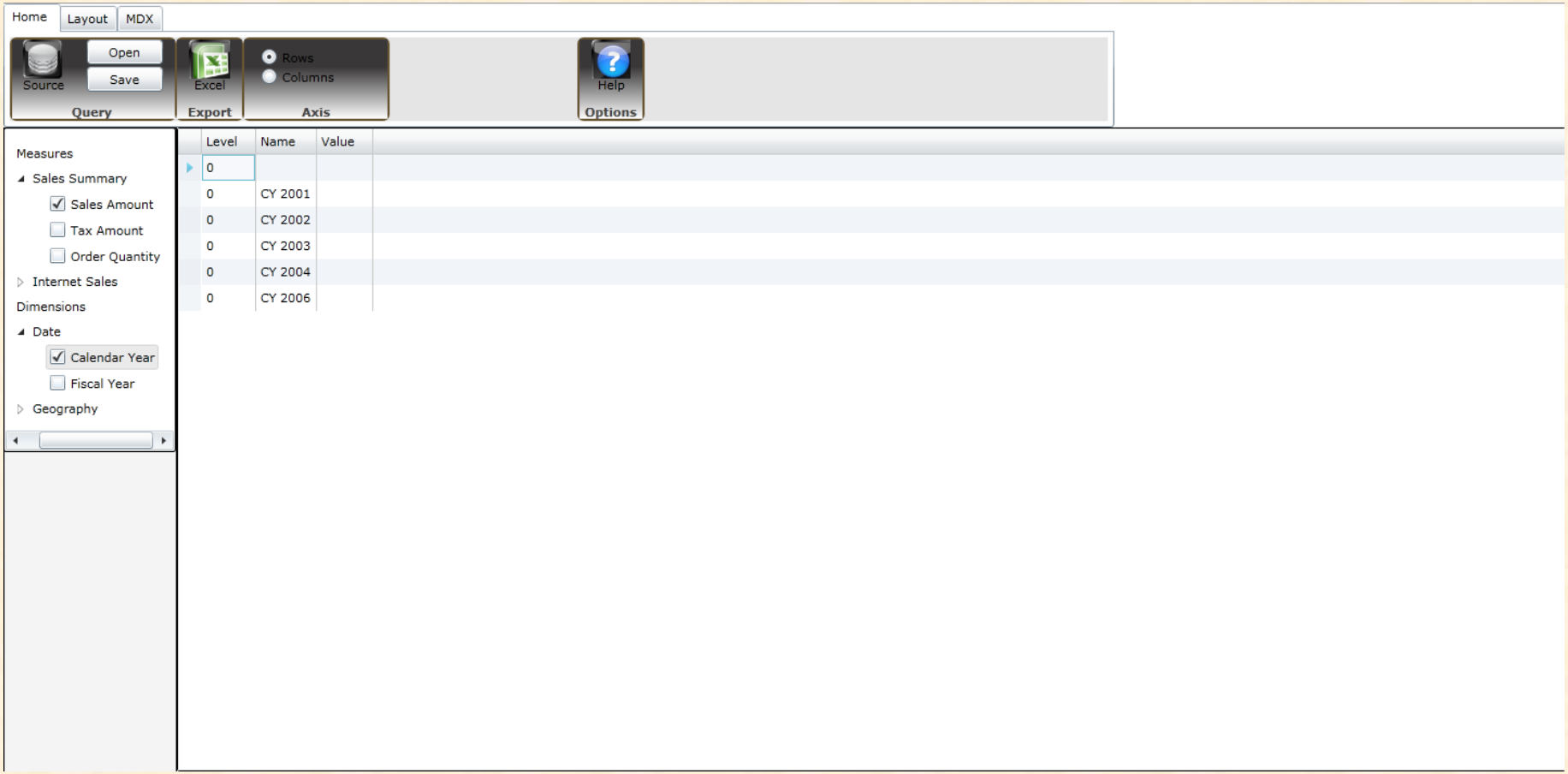
System Architecture



Initial User Interface Design



Sample Ad Hoc Query



What's left to do?

- Create data grid capable of displaying OLAP data
- Implement print, export and save functionality
- Fine tune ad hoc query generation
- Populate sidebar from cube metadata
- Finish UI design and get client signoff
- Graphing of data (time allowing)