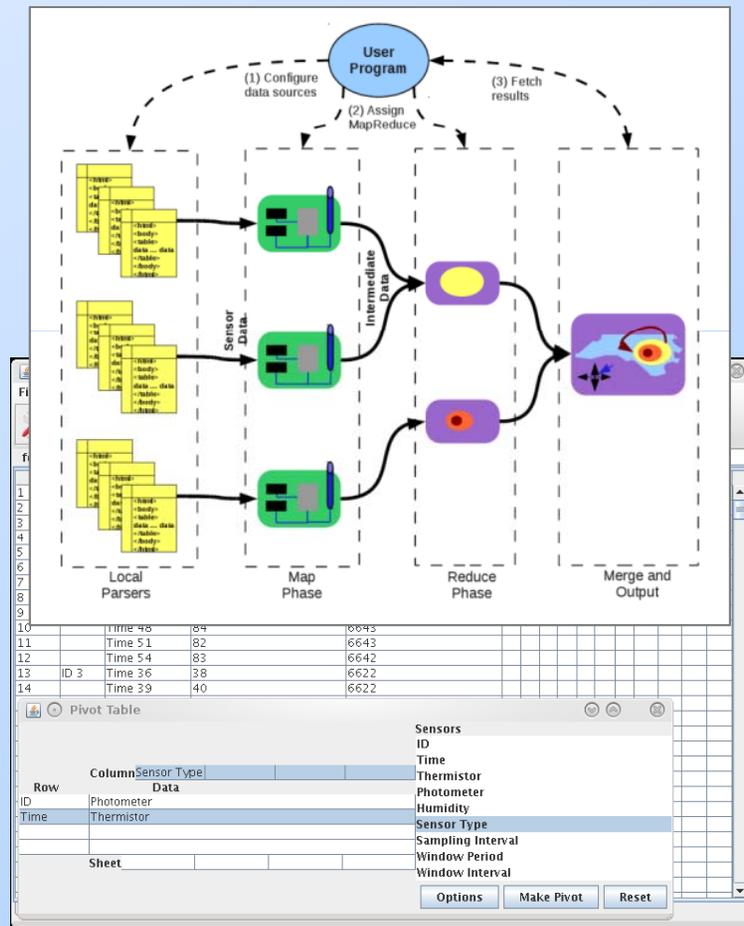


Tables and SenseReduce Programming Interfaces

Data Systems Sciences & Engineering Group

Computational Sciences & Engineering Division



- **Problem Statement:**

- The difficulty in fusing, analyzing, and visualizing the large amount of data from in-situ sensor networks, web-based sensors, and mobile users requires new user-friendly, scalable analysis tools

- **Technical Approach:**

- Tables provides a spreadsheet-inspired programming tool that can collect, filter, and analyze real-time sensor data
- Tables uses the SenseReduce programming model, a MapReduce-inspired model that aggregates data from multiple sources in a scalable, efficient manner

- **Benefit:**

- Simple and scalable tools to analyze heterogeneous sensor data using familiar user interfaces

- **Technology Readiness Level 3**

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