

## **An In-memory Graph System for Scalable and Consistent Data Integration**

In a distributed environment data from disparate heterogeneous sources are brought together to a warehouse in a unified and consistent manner for reporting and analytics. The dynamic nature of sources, scalability and consistency are some of the prime challenges when integrating data on a large scale. Evolving dynamic sources can compromise the consistency of the system with a single change and result in breaking the system at large. This work aims to use an in-memory graph-based approach to address these challenges; explain the proposed system and its feasibility. It also aims to address the issue of fault tolerance in a system prone to changes. The in-memory graph provides a basis for both scalability and performance in addition to consistent data integration.