Locality-aware Storage Schemes for Property Graphs

Master

Summary
Extend the storage scheme of existing graph DBMS to be locality-aware in order to optimize query processing.

Project Phase
Investigate existing models for locality-aware query processing on graphs. Implement and compare these models.

Thesis Phase
Extend selected existing locality models to property graphs. Conduct an extensive experimental evaluation to show the queries that each locality-aware storage scheme is more suitable for.

Requirements
- Experience in Java or C++ programming
- Course on Algorithms and Data Structures (or equivalent)

Preferable Courses (or equivalent)
- Database System Architecture and Implementation
- Graph Data Management and Analysis

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