Ontology representation and querying using relational model

Richard Veselý

Objectives:
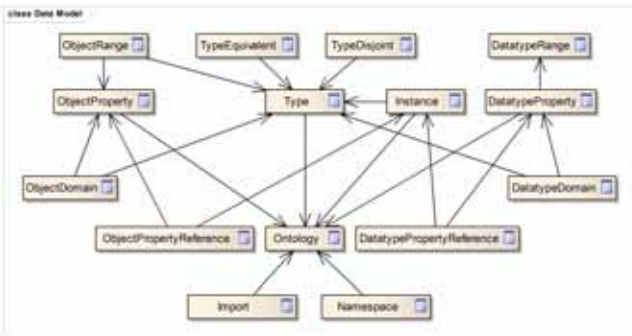- speed
- scalability
- extensibility
- configurability

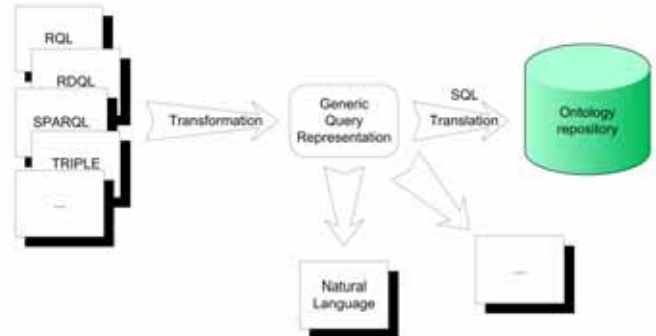Explicit formal specification of a shared conceptualization

Storage

Data model

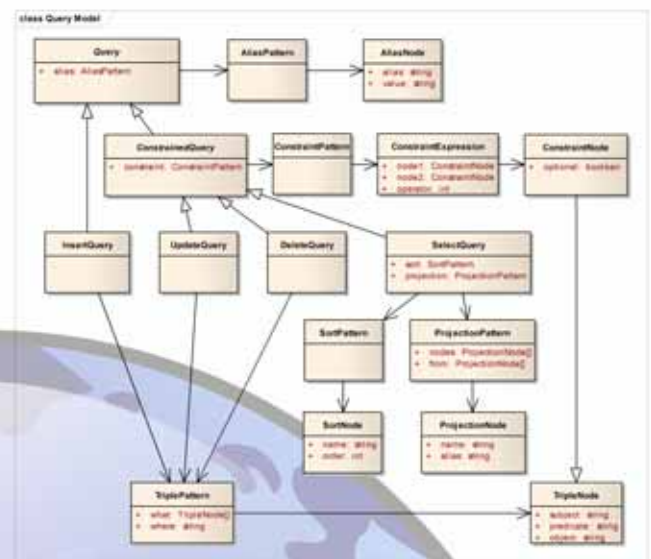
Translation

Overview

Use scenarios
- Stream processing

  - metrics, filtering, selective processing
- Memory storage

  - fast prototyping, visualization, simple

  experiments
- Persistent storage

  - querying, complex experiments

Applications
- Domain ontologies

  - ACM, DBLP, Springer
- Ontology maintenance

  - duplicates, inconsistencies, typos
- Experimental processing

  - clustering, annotation

Query model

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