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3.4.2 - Graph management
3.5 - Ontology languages; 3.5.1 - RDFS; 3.5.2 - OWL; 3.5.3 - OWL 2; 3.5.4 - OWL 2 profiles; 3.5.5 - SKOS; 3.5.6 - RDFS+; 3.5.7 - OWL Horst; 3.6 - Reasoning; 3.7 - Benchmarks; 3.8 - Building semantic web applications; 3.9 - Summary; Chapter four - RDF Dictionaries: String Encoding; 4.1 - Encoding motivation; 4.2 - Classic encoding; 4.2.1 - Classic string dictionary techniques; Hashing; Front coding; Grammar based; Self-indexing; 4.2.2 - RDF dictionaries; 4.3 - Smart encoding; 4.4 - Allowing a full text search in literals
4.5 - Compressing large amounts of data
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5.3.1.3 - Vertical partitioning; 5.3.1.4 - Other approaches; 5.3.2 - Ontology-based data access; 5.3.3 - NoSQL; 5.3.3.1 - Key-value store; 5.3.3.2 - Document stores; 5.3.3.3 - Column family; 5.3.3.4 - Graph databases; 5.4 - Complementary surveys; 5.5 - Summary; Chapter six - Query Processing; 6.1 - Introduction; 6.2 - Query parsing; 6.3 - Query rewriting; 6.3.1 - Query simplification; 6.3.2 - Query encoding and decoding; 6.3.3 - Query translation; 6.4 - Optimization; 6.4.1 - SPARQL graphs; SPARQL join graph; SPARQL variable graph; SPARQL hybrid graph
6.4.2 - Heuristics-based query optimization

Sommario/riassunto

RDF Database Systems is a cutting-edge guide that distills everything you need to know to effectively use or design an RDF database. This book starts with the basics of linked open data and covers the most recent research, practice, and technologies to help you leverage semantic technology. With an approach that combines technical detail with theoretical background, this book shows how to design and develop semantic web applications, data models, indexing and query processing solutions. Understand the Semantic Web, RDF, RDFS, SPARQL, and OWL within the context of relational database management
