

Subject URIs are linked to

object URIs via predicates

Pred,

Obj)

URI

Triples can

form records

URI

Obi)

Model

used:

triples

Row RDBMS

Vertices and edges are stored in

rows of two row-oriented tables

Table with

vertices

Different

records

(Subj,

URI

URI

(Subj.

Examples:

AllegroGraph,

Cray Graph

Engine

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Pred,

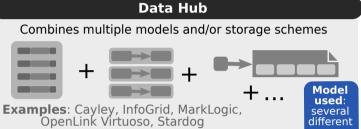
Subj,

Table with

edges

Different

records

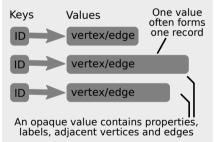


NoSOL stores

OODBMS



Vertices and edges are encoded in values and indexed by keys (IDs)

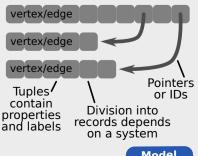


Examples: Dgraph, HyperGraphDB, MŚ Graph Engine

Model used: pairs of keys and values

Tuple Store

Vertices and edges are stored in tuples, linked via pointers or IDs of other tuples

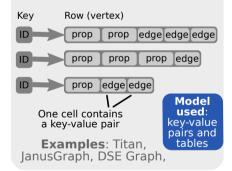


Examples: WhiteDB, Graphd Model used: tuples

Wide-Column Store

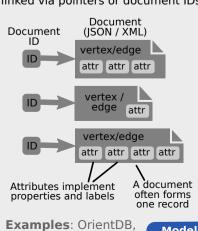
ones

A vertex is stored in a row and it is indexed by a unique ID; its properties, labels, and adjacent edges are stored in row cells



Document Store

Vertices and edges are encoded in documents (e.g., JSON) and linked via pointers or document IDs



ArangoDB, Azure

Cosmos DB, FaunaDB

Model used: documents



Pred,

Custom database systems, optimized for graph storage and traversal queries.



Details of data organization are system-dependant. Adjacency information is explicitly maintained to accelerate graph traversals.

Examples: Sparksee/DEX, TigerGraph, GraphBase, Memgraph, Neo4j, PGX

Model used: Labeled Property Graph