Storing in Semantic Web – Vertical Partitioning Approach

Year of Publication: 2017

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Abstract

This paper aims to provide storing solution for the Semantic Web which has some constraints in terms of efficiency and scalability because of the nature of resource description framework. RDF based on triple format (subject, property, object). The solution presented here is vertical partitioning approach in which two columns are used for each property. On the other hand, by having a look into property table technique in terms of concept, pros, and cons. Besides, a brief talk is provided about column-store approach and C-Store DBMS.

References


Index Terms

Computer Science
Information Sciences

Keywords

semantic web, column- store, C-Store, resource description framework, property table technique, vertical partitioning approach.