CSCI8380 (Spring 2012): Paper Review Form

Reviewer Name: Mehdi Allahyari

Paper Name: RDF Support in the Virtuoso DBMS

Section I. Overview

A. Reader Interest

1. Which category describes this manuscript?
   __✔_Practice/Application/Case Study/Experience Report
   ___Research/Technology
   ___Survey/Tutorial/How-To

B. Content

1. Please explain how this manuscript advances this field of research and/or contributes something new to the literature.

Answer: *This manuscript describes how to adapt a relational engine for native RDF support with dedicated data types, bitmap indexing and SQL optimizer techniques. And they propose a general purpose relational / federated database called Virtuoso and applications platform.*

C. Presentation

1. Does the introduction state the objectives of the manuscript in terms that encourage the reader to read on?
   __✔_Yes
   ___Could be improved
   ___No

2. How would you rate the organization of the manuscript? Is it focused? Is the length appropriate for the topic?
   __Satisfactory
   _✔___Could be improved
   ___Poor

3. Please rate and comment on the readability of this manuscript.
   ___Easy to read
   ___Readable - but requires some effort to understand
   _✔__Difficult to read and understand
   ___Unreadable

Section II. Evaluation

Please rate the manuscript. Explain your choice.

___Award Quality
___Excellent
__Good
___✔_Fair
___Poor

Section III. Detailed Comments (provide your thoughts/criticism about the ideas in the paper; not only summarize the paper but have a critical look here)

Answer: *In this paper authors presented how it is possible to map a Relational Database into RDF data source to be used by Semantic Web technologies like SPARQL. So they propose Virtuoso, a general purpose relational / federated database, and its advantages. Using Virtuoso, it's also possible to use SPARQL within SQL for accessing and querying RDF datasets.*

Additional Comments:

1. Provide one aspect that you liked the most in this paper.

   The idea of using SPARQL in the form of SQL queries is interesting, especially when you don't need to modify the query, which is very useful in many applications.

2. Provide one aspect that you disliked the most in this paper.

   This paper is somewhat complicated. It is not well organized and more often than not the contiguity of the information is not followed well.

Section IV. Discussion Points (provide at least 3 discussion topics/questions related to ideas/techniques described in the paper; these will be used for discussions in the class)

1. *How to compare different relational databases and RDF engines?*
2. *What clustering algorithm is used for RDF datasets?*
3. *Comparison between Virtuoso and other RDF storage engines?*