Abstract

The emergence and popularity of mobile computing environment, so get a variety of semi-structured data to follow some common XML model. The Extensible Markup Language
(XML) model has recently gained huge popularity because of its ability to represent a wide
variety of structured and semi-structured data. Several Query languages have been proposed
for the XML data model, the most-widely known is XQuery. Traditional query processing to a
database focused on structured data retrieval and structures to support them. In this paper we
present a model and an algorithm for querying structured and semi - structured data for mobile
computing environments based on the model of XQuery. We employ a variety of servers to
handle different jobs. Buffer is maintained in the mobile node and the cache is stored in the
query server, and mobile server. Priority is given to requests based on various parameters such
as priority by the user, the required bandwidth, etc. parameters considered for performance
measure of the effectiveness of the request, delivery ratio and average power consumption and
the results show that the proposed algorithm works better than existing systems.

Reference

- Agrawal R., S. Dat and H. Jagadish,(1990)“Direct Transitive
3, pp. 427-458.
Symposium on Principles of Database Systems, Austin, Texas.
Recommendation.
- Dewitt D and D. Schneider,(1989)“A Performance Evaluation of Four Parallel Join
Algorithms in a Shared-nothing Multiprocessor Environment,” Proceedings of ACM Conference
on Management of Data (SIGMOD).
XML data using Query-Aware Decryption”.
supporting order in XML query processing”. Elsevier- Data & Knowledge Engineering, pp.
355–390.
11, pp. 1668-1683.
– 309.
on uniprocessor and shared nothing multiprocessor systems,” Data & Knowledge Engineering,
pp. 57 – 89.
- D.Saha and N. Chowdhury, “A Method for Secure Query Processing in Mobile
Databases”, International Association of Engineers, Volume 14, Issue 1, Engineering Letters,
14:1, EL_14_1_20, February 2007.
Developing Xquery Model for Distributed Query Processing in Mobile Networks

- Dorian C. Arnold Barton P. Miller “A Scalable Failure Recovery Model for Tree-based Overlay Networks”, 2007 ACM.

**Index Terms**

Computer Science

Networks

**Key words**
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<th>Mobile computing</th>
<th>cache query</th>
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