

A NOVEL STRATEGY FOR FINDING FREQUENT ITEMS IN DYNAMIC XML DISSEMINATION

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ABSTRACT

This paper proposes a novel framework for commendably ascertaining frequently accessed data items over a wireless XML broadcasting scheme. A proficient XML dissemination scheme is used for supporting twig pattern queries in the wireless environment. Twig pattern queries that contain intricate conditions are quite common and critical in XML query processing. The mobile client can retrieve the required data satisfying the given twig pattern by performing bit-wise operations on the Lineage Codes in the relevant G-nodes. Counter-based algorithm tracks a subset of items from the input, and monitor counts associated with these items. It decides for each new arrival whether to store this item as frequent item or not. The proposed framework is reliable, efficient and user-friendly.

KEYWORDS: Attribute Summarization, Frequent Items, Twig Pattern Query, Wireless Broadcasting