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ONLINE SUBGRAPH SKYLINE ANALYSIS OVER KNOWLEDGE GRAPHS

ABSTRACT

Subgraph search is very useful in many real-world applications. However, users may be overwhelmed by the masses of matches. In this paper, we propose a sub graph skyline analysis problem, denoted as S^2A , to support more complicated analysis over graph data. Specifically, given a large graph G and a query graph q , we want to find all the sub graphs g in G , such that g is graph isomorphic to q and not dominated by any other sub graphs. In order to improve the efficiency, we devise a hybrid feature encoding incorporating both structural and numeric features based on a partitioning strategy, and discuss how to optimize the space partitioning. We also present a sky layer index to facilitate the dynamic subgraph skyline computation. Moreover, an attribute cluster-based method is proposed to deal with the curse of dimensionality. Extensive experiments over real datasets confirm the effectiveness and efficiency of our algorithm

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EXISTING SYSTEM:

As a well-known research problem, the sub graph search problem is meaningful and useful in many applications. For example, answering SPARQL queries in the Semantic Web is equivalent to conducting the sub graph match over graphs. However, users may be overwhelmed by the enormous matching results returned from queries. Owing to different requirements in a variety of applications, it is non-trivial how to design a generic function to measure/rank the “goodness” of these matches. In this paper, we study the sub graph skyline problem (Def. 2.5) on large graphs, which can retrieve the matching sub graphs by considering both graph structures and graph entity dominance relationships.

DISADVANTAGES:

- Principle of the existing algorithms is: tuples that do not belong to group skylines cannot contribute to the join skyline.
- However, group skylines are very hard to compute in the graph scenario. Furthermore, they do not consider any structural feature to facilitate query process.

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- In contrast, we combine the numeric pruning and the structural pruning based on the data space partitioning.

PROPOSED SYSTEM:

We propose optimizations on how to find a good partitioning. Furthermore, we maintain the grid cells using an efficient index to facilitate the dynamic computation of skyline entities. More importantly, we prune the unpromising cells that cannot generate true S2A answers by exploiting the encoding and partitioning strategies. In order to deal with the curse of dimensionality, we propose to cluster numeric attributes, and provide an efficient algorithm to compute skylines over clusters of attributes.

ADVANTAGE OF PROPOSED SYSTEM:

- We propose the problem of sub graph skyline analysis (denoted by S 2A) over large graphs, and present an efficient method to answer S 2 A queries.
- We partition the data space into grid cells, and compute skylines cell by cell, instead of entity by entity. Most importantly, we propose optimizations on how to find a good partitioning.

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SYSTEM SPECIFICATION

HARDWARE REQUIREMENTS

- System : Pentium IV 2.4 GHz.
- Hard Disk : 40 GB.
- Floppy Drive : 1.44 Mb.
- Monitor : 15 VGA Colour.
- Mouse : Logitech.
- Ram : 512 Mb.

SOFTWARE REQUIREMENTS

- Operating system : Windows XP/7.
- Coding Language : ASP.net, C#.net
- Tool : Visual Studio 2010
- Database : SQL SERVER 2008

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