The Optimization of Data Cube Selection on XML-based Data Warehouse

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ABSTRACT

The data in the traditional database often change, and is unfavorable to data analysis. In order to effectively analyzes the data of the database, the enterprise is build up the Data Warehouse to satisfy the data analysis. Through the information of analyzing, help the decision direction with the company manages. When query data in the Data Warehouse, the Aggregation consumption resources is very high, in order to promote the query efficiency, reduces resources with Aggregation. The Data Warehouse storage space limited situation, how to select Data Cube to establish, to promote the query efficiency is very important. Therefore, this article is using Lattice structure to select some Data Cube to be preserved, try to satisfy with each kind of query for main goal. In addition, because of the Internet to spring up, a lot data are transmitting with Internet, when to exchange the data in the Data Warehouse among the companies, it is apt to have questing among the heterogeneity databases. Therefore, this article is based on XCube structure, set up the Data Warehouse with XML, in order to solve this problem. At the same time, this article in XML Data Warehouse add the Lattice Structure, let users query Data Cube fast.

Keywords : Lattice ; Data Cube ; XML

Table of Contents

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