Star Schema Advantages on Data Warehouse: Using Bitmap Index and Partitioned Fact Tables

Abstract

The data warehouse designer should consider it effectiveness while the design process, this might be a part of it work by analyzing the update frequency of production databases.

Actually, to decide in a small time interval becomes the most important concern for deciders, this because it’s always depending on data warehouse refresh using the ETLs and the cube generate process based on data warehouse schema type.

To present the KPI’s to the management quickly, we need to minimize the query execution time.

This papers shows that the star schema is more advantageous when using a bitmap index based on ETL query execution time and data access time.
References


Index Terms

Computer Science

Databases

Keywords

Data Warehouse, DBMS, Indexes, Business Intelligence