



Improving Resource Management And Solving Scheduling Problem In Data Ware House Using OLAP And OLTP

¹Seenu kohar , Research Scholar, Department of CSE, OITM Hissar

²Surender Singh, Assistant Professor, Department of CSE, OITM Hissar

ABSTRACT: Data in the warehouse and data marts is stored and managed by one or more warehouse servers, which present multidimensional views of data to a variety of front end tools: query tools, report writers, analysis tools, and data mining tools. Finally, there is a repository for storing and managing metadata, and tools for monitoring and administering the warehousing system. Data warehouses, in contrast, had been targeted for decision support. Historical, summarized & consolidated data would be more important than detailed, individual records. Work load had been query intensive within mostly ad hoc, complex queries that could access millions of records & perform lot of scans, joins, & aggregates. Query throughput & response times had been more important than transaction throughput. OLAP performs multidimensional analysis of business data & provides capability for complex calculations, trend analysis, & sophisticated data modelling.



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[1] Introduction

Meaning of Data Warehouse was firstly coined by Bill Inm on in 1990. This data helps analysts to take informed very important decisions in group. An operational database undergoes frequent changes on a daily basis on account of transactions that taken area. Think a business management wants to analyze previous feedback on any data such as a product, a supplier, or any consumer data, then executive will had no data available to analyze because previous data has been updated due to transactions.

Using Data Warehouse Information

There are decision support technologies that help utilize data on hand in a data warehouse. These technologies help to use warehouse quickly & effectively. They can gather data, analyze it, & take decisions based on information present in warehouse. Information gathered in a warehouse can be used in any of following domains:

1. Tuning Production Strategies or product strategies can be well tuned by repositioning products & managing product portfolios by comparing sales quarterly or yearly.

2. consumer Analysis or consumer analysis are done by analyzing customer's buying preferences, buying time, budget cycles, etc.

3. Operations Analysis or Data warehousing also helps in customer relation management, & making environmental corrections. information also allows us to analyze business operations.

Architecture of Data Ware House

It includes tools for extracting data from multiple operational databases & external sources; for cleaning, transforming & integrating this data; for loading data into data warehouse; & for periodically refreshing warehouse to reflect updates at sources & to purge data from warehouse, perhaps onto slower archival storage. In addition to main warehouse, there might be several departmental data marts

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