Abstract

Distributed database system provides resource sharing environment for optimal performance of various database activities, especially when data is spread over a large number of sites. Distributed nature of transactions occurring at different sites and requiring resources from diverse sites pose various operational problems, such as deadlocks, concurrency and data recovery. A deadlock may occur when a transaction enters into wait state which request resource from other blocked transactions. The deadlocks are handled in three phases namely deadlock detection, deadlock avoidance and deadlock detection. Various algorithms have been discussed in the literature for deadlock detection and resolution. These algorithms quite often fail to detect deadlock over distributed database. In this paper an attempt has been made to develop an algorithm for distributed deadlock detection at local and global levels. The author have developed local transaction structure to deal with deadlock at local level and distributed transaction structure at global level

References

Deadlock Detection Techniques in Distributed Database System

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**Index Terms**

Computer Science

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Keywords

Wait-For-Graph  Deadlock  Local Transaction Structure  Global transaction
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