Abstract

In this paper, an approach has been proposed that makes the processing of join operation in database systems more efficient. In join operation processing relations that take part in the join process are required to be transferred to the main memory (RAM) from hard disk. In join operation processing when block nested loop algorithm is used to perform join between
relations and multiple blocks of the relations that take part in the joining process are transferred from hard disk to main memory than in this case the main memory buffer allotted to the blocks of relation. Using this approach, multiple blocks are transferred for the relations that participates in the join operation processing, instead of transferring blocks one by one for each relation (or multiple blocks for one relation) without worrying about the large and small databases size. When this new approach is applied, the rate of block transfer during join operation processing using block nested loop algorithm get minimizes and join query processing become efficient, without loosing the level of complexity of the previous algorithms of block nested loop join (BNLJ).

**Reference**

- Deepak Shukla, Rakesh Kumar Pandey, Deepak Arora and Ajai Kumar Yadav, 2011. An effective approach for join operation processing. 2nd National conference on Global Trends and Innovations in Computer Application and Informatics, April 9-10th, Meerut, India.
Index Terms

Computer Science  Signal Processing

Key words

Databases  Query Processing  Block Nested-Loop

Join (BNLJ)

RAM

Hard Disk.