

Database Systems Elmasri Navathe Solution Manual

B-tree The B-tree generalizes the binary search tree, allowing for nodes with more than two children. : In computer science, a B-tree is a self-balancing tree data structure that maintains sorted data and allows searches, sequential access, insertions, and deletions in logarithmic time.). " Folk & Zoellick 1992, p. Navathe, Ramez Elmasri, Shamkant B. J. Upper Saddle River, N. Fundamentals of database systems (6th ed. (2010). 379. interest 600ce02221

By allowing more children under one node than a regular self-balancing binary search tree, the B-tree reduces the height of the tree, hence putting the data in fewer separate blocks. This is especially important for trees stored in secondary storage (e.g. disk drives), as these systems have relatively high latency and work with relatively large blocks of data, hence the B-tree's use in databases and file systems. This remains a major benefit when the tree is stored in memory, as modern computer systems heavily rely on... 600ce02221

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