

ABSTRACT

A database operation method and apparatus, a device and a storage medium are provided.

The method includes: traversing, by a writing thread, from a root node of a multiway tree to search a target index record matching a search keyword of a writing operation; and applying

5 for adding, by the writing thread according to a locking rule, exclusive locks for memory pages corresponding to a target node where the target index record is located and other nodes needing associated modification; where the locking rule includes: if a direction from any node to an associated node does not meet a requirement of a locking direction, on the basis of holding an exclusive lock of a memory page corresponding to the any node and before
10 applying for adding an exclusive lock for a memory page corresponding to the associated node, the exclusive lock of the memory page corresponding to the any node needs to be released, and a preset mark needs to be set for the memory page corresponding to the any node; and a lock held by itself needs to be released if any memory page for which adding an exclusive lock is applied has been set with the preset mark by another writing thread.

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Fig. 4