

ONLINE EVOLUTION METHOD AND APPARATUS FOR EXECUTION PLAN, DEVICE, AND STORAGE MEDIUM

ABSTRACT

This specification provides an online evolution method and apparatus for an execution plan,
5 a device, and a storage medium. The method includes: In response to a received current database
request including a target database statement, an evolution task is obtained from a plan cache
corresponding to the target database statement. A type of an execution plan actually used by the
database request is selected, so that an accumulative quantity of execution times of each type of
execution plan in an implementation process of the evolution task is positively correlated with
10 performance of each type of execution plan. After the evolution task ends, if it is determined that
performance of a current execution plan of an evolution type is better than performance of an
execution plan of a baseline type, the execution plan of the evolution type is changed into an
execution plan of the baseline type corresponding to the target database statement.

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FIG. 1