TITLE OF THE INVENTION: GENERAL INCREMENTAL COMPUTATION METHOD BASED ON INTERMEDIATE STATE

ABSTRACT

The present invention discloses a general incremental computation method based on an intermediate state, wherein the general incremental computation method comprises: rewriting a logical execution plan to obtain an incremental execution plan corresponding to the logical execution plan, which comprises the following steps: S1: acquiring and parsing a user SQL to generate a logical execution plan; S2: screening and judging operators, and selecting a persisted target operator; S3: persistently storing the persisted target operator; S4: performing state matching between the logical execution plan in the intermediate state and a current execution plan through an algorithm so that all operators find equivalent operators corresponding thereto; S5: reading a last aggregation result of the incremental execution plan and merging the last aggregation result with an incremental aggregation result computed by current incremental data to acquire a final execution plan; and S6: monitoring, updating and maintaining the final execution plan in real time.

FIG. 1