

CLAIMS

1. A method for processing a database data modification request, the method comprising:
receiving a data modification request for a database (S101);
modifying second data in the database to first data;
generating a first log and a second log based on the data modification request, wherein the first log comprises the first data, and the second log comprises the second data (S102); and
returning a modification result that corresponds to the data modification request after performing persistence processing on the first log (S103).
2. The method according to claim 1, wherein the second log further comprises the first data.
3. The method according to claim 2, wherein generating a first log and a second log is based on:
generating the first log and the second log in a memory (S203).
4. The method according to claim 2, further comprising:
performing persistence processing on the second log (S204).
5. The method according to claim 2, further comprising:
in response to sending the second log to a data analysis system, performing the data analysis by the data analysis system based on the second log.
6. The method according to claim 2, wherein the database is a primary database and before returning a modification result that corresponds to the data modification request, the method further comprises:
synchronizing, by a secondary database, the first log to a secondary database of the database, based on the first log.
7. The method according to claim 6, further comprising in response to synchronizing the first log to a secondary database of the database, synchronizing, by the secondary database, the modification and generating the second log based on the first log.
8. The method according to claim 7, further comprising:

performing, by the secondary database, persistence processing on the first log obtained through synchronization and/or the second log generated based on the first log.

9. The method according to any one of claims 1 to 5, wherein the first data and the second data each belong to at least one database record; and

the second log further comprises data other than the first data in the database record that the first data belongs to, and/or data other than the second data in the database record that the second data belongs to.

10. The method according to any one of claims 1 to 8, wherein persistence processing is based on storing a log in a nonvolatile storage device.

11. The method according to any one of claims 1 to 4, wherein persistence processing is based on storing a log in a nonvolatile storage device; and

the first log and the second log are separately stored in different nonvolatile storage devices by using the persistence processing.

12. The method according to any one of claims 1 to 8, wherein the data modification request is a data update request, a data deletion request, or a data addition request; and

neither the first data nor the second data is null when the data modification request is a data update request; or

the first data is null and the second data is not null when the data modification request is a data deletion request; or

the first data is not null and the second data is null when the data modification request is a data addition request.

13. The method according to any one of claims 1 to 8, wherein the data modification request comprises a request for reducing a total volume of data in the database based on one or more policies.

14. The method according to any one of claims 1 to 8, further comprising sending the second log to an external system (S404).

15. An apparatus for processing a database data modification request, the method, the

apparatus comprising a plurality of modules configured to perform the method of any one of claims 1 to 10.