CLAIMS

WHAT IS CLAIMED IS:

1. A method for efficiently processing multi-dimensional data based on group management, specifically comprising: establishing a method for parallel collection of multi-dimensional management data under a plurality of databases, collecting metadata of the multi-dimensional management data under the plurality of databases, performing data integration of multi-source database tables on the collected multi-dimensional management data, performing data standardization processing on an integrated database table, calling data subject to the standardization processing in a database of a service system, and performing data calling and query according to a service rule in the service system;

wherein the data integration of the multi-source database tables comprises the following specific steps:

A1: performing labeled classification on database tables under the plurality of databases, and performing clustering processing on the database tables based on a label in the labeled classification;

A2: dividing the clustering processing into parallel label clustering and tree-structured label clustering on the basis of A1;

A3: when performing the parallel collection of the multi-dimensional management data under the plurality of databases, performing classification processing on the parallel label clustering and the tree-structured label clustering, respectively, based on the label by loop traversal; and

A4: on the basis of A3, performing merging of the database tables under the plurality of databases, and performing the data standardization processing on a merged database table, wherein the data standardization processing comprises data cleaning, data deduplication, data format unification, and abnormal data value rejection.

2. The method for efficiently processing multi-dimensional data based on group management according to claim 1, wherein the data calling and query comprises data alert, data notification, and standardized quantized data display.

3. The method for efficiently processing multi-dimensional data based on group management according to claim 1, wherein the plurality of databases comprise MySQL, Oracle and Excel databases; and in the method for parallel collection, a cache area of the multi-source database tables is established, and the data integration and the data standardization processing are performed on the collected multi-dimensional management data in the cache area of the multi-source database tables.

4. The method for efficiently processing multi-dimensional data based on group management according to claim 3, wherein a python-based pandas tool is used in the parallel collection to set connection attributes with the plurality of databases; and the connection attributes comprise a database table address, a user-defined login name and login password, and flag bit determination.

5. The method for efficiently processing multi-dimensional data based on group management according to claim 1, wherein in the parallel label clustering and the tree-structured label clustering, labels in the database tables are graded according to the service rule and labels at a same level fall into a same set in the database tables under the plurality of databases.

6. The method for efficiently processing multi-dimensional data based on group management according to claim 5, wherein in the tree-structured label clustering, attribute relationships of labels at all levels fall into a set.

7. The method for efficiently processing multi-dimensional data based on group management according to claim 1, wherein in the data standardization processing, a unified calling logic based on required data in the service system is established, and the unified calling logic is used for data application in the service system.

8. The method for efficiently processing multi-dimensional data based on group management according to claim 1, wherein in the data standardization processing, processed data is stored in a cache area of the multi-source database tables, and data in the cache area of the multi-source database tables is called by a PostgreSQL database.