CLAIMS

WHAT IS CLAIMED IS:

1. A group-wide information management system based on an oral diagnosis and treatment system, specifically comprising a financial unit, an inventory unit, a human resource unit, a salary unit, a process approval unit, a mail unit, and an HIS unit, wherein each unit in the group-wide information management system is in data communication with a diagnosis and treatment process unit, data is transferred to a background management unit for data arrangement, group-wide information management data obtained through the data arrangement is uploaded to a cloud database, and when the group-wide information management data is used in an operating unit, data in the cloud database is invoked to realize whole-process management of the group-wide information management system;

in the whole-process management, a data association model based on data of each unit is established, the data association model is used for performing integration on data invoked from the cloud database according to a rule of the oral diagnosis and treatment system, the data of each unit is subdivided into a data dimension and a data attribute, and data association is performed;

wherein in the data association, a nearest clustering algorithm based on time and attribute is established to perform fast association between multidimensional data, and a degree of data association is calculated under a specified timestamp based on an attribute value of data, to perform integration on the data invoked from the cloud database, the integration on data specifically comprises the following steps:

C1: establishing a weight relationship between data of each unit to determine an association tightness between the data of each unit, and establishing an association map based on the data of each unit according to the weight relationship;

C2: performing, on the basis of C1, clustering on the data of each unit at a specified time by setting a specified data acquisition cycle; and

C3: performing integration on data between designated invoking categories according to a data attribute between the data of each unit and an association between the data.

2. The group-wide information management system based on an oral diagnosis and treatment system according to claim 1, wherein in the group-wide information management data, a data encryption mode based on a redundant field is set in the cloud database to save sensitive data of oral diagnosis and treatment.

3. The group-wide information management system based on an oral diagnosis and treatment system according to claim 2, wherein in the data encryption mode based on the

redundant field, data is individually encrypted in a string order when saved; when data is decrypted, a condition entered for a query is encrypted in a same mode as data encryption, and the encrypted condition is directly used for match retrieval with the encrypted data; and in the match retrieval, a data query in the cloud database is performed by using a binary check indexing mode.

4. The group-wide information management system based on an oral diagnosis and treatment system according to claim 3, wherein in a binary check index, a rollback test way is additionally provided at a 2n bit in the binary check index to avoid an error code in a data transmission process.

5. The group-wide information management system based on an oral diagnosis and treatment system according to claim 1, wherein in the data communication, in a data transmission process of each unit, data integrity check is additionally provided in the data transmission process, to monitor a data transmission status between data ports of the unit.

6. The group-wide information management system based on an oral diagnosis and treatment system according to claim 5, wherein the data integrity check comprises data check judgment and data error code positioning.