CLAIMS

1. A method for sharding a database table, comprising:

for each row of rows in an original data table,

determining sharding attribute values of the row in sharding attribute columns of the original data table;

performing calculation on the sharding attribute values of the row in the sharding attribute columns using sharding strategies corresponding to sharding attributes represented by the sharding attribute columns, to obtain a plurality of sub-shard identifiers of the row;

combining the plurality of sub-shard identifiers of the row to obtain a shard combination identifier of the row;

determining a shard identifier of the row based on the shard combination identifier of the row; and

writing data in the row of the original data table into a sharded table represented by the shard identifier of the row, wherein the determining a shard identifier of the row based on the shard combination identifier of the row comprises:

searching for the shard identifier corresponding to the shard combination identifier of the row to obtain shard identifiers of the rows, and wherein the method further comprises:

determining, in response to no shard identifier corresponding to the shard combination identifier, a newly-added shard identifier corresponding to the shard combination identifier;

creating a newly-added sharded table corresponding to the newly-added shard identifier; and

writing data in a row of the rows in the original data table that corresponds to the newly-added shard identifier into the newly-added sharded table.

2. The method according to claim 1, wherein the searching for the shard identifier corresponding to the shard combination identifier of the row to obtain shard identifiers

of the rows comprises:

searching for the shard identifier corresponding to the shard combination identifier of the row from a shard identifier mapping table to obtain the shard identifiers of the rows, wherein the shard identifier mapping table records a corresponding relationship between the shard combination identifier and the shard identifier.

3. The method according to claim 1, further comprising:

in a data query stage,

performing calculation on an inputted sharding attribute value using a sharding strategy corresponding to a sharding attribute to which the inputted attribute value belongs, to obtain a target sub-shard identifier;

searching for a target shard combination identifier comprising the target sub-shard identifier;

determining a target shard identifier based on the target shard combination identifier; and

performing data query in a sharded table represented by the target shard identifier based on the inputted sharding attribute value.

4. The method according to claim 3, wherein the determining a target shard identifier based on the target shard combination identifier comprises:

searching for the target shard identifier corresponding to the target shard combination identifier from a shard identifier mapping table.

5. The method according to any one of claims 1 to 4, wherein the combining the plurality of sub-shard identifiers of the row to obtain a shard combination identifier of the row comprises:

concatenating the plurality of sub-shard identifiers of the row in sequence to obtain the shard combination identifier of the row, wherein the sequence is a sequential order of the sharding attribute values in the row, and wherein the sub-shard identifiers are obtained based on the sharding attribute values.

6. An apparatus for sharding a database table, comprising:

a sharding attribute value determination module, configured to determine, for each

row of rows in an original data table, sharding attribute values of the row in sharding attribute columns of the original data table;

a sub-shard identifier calculation module, configured to perform calculation on the sharding attribute values of the row in the sharding attribute columns using sharding strategies corresponding to sharding attributes represented by the sharding attribute columns, to obtain a plurality of sub-shard identifiers of the row;

a combining module, configured to combine the plurality of sub-shard identifiers of the row to obtain a shard combination identifier of the row;

a sharded table determination module, configured to determine a shard identifier of the row based on the shard combination identifier of the row, wherein the sharded table determination module is configured to search for the shard identifier corresponding to the shard combination identifier of the row to obtain shard identifiers of the rows;

a write module, configured to write, for each row of the rows in the original data table, data in the row into a sharded table represented by the shard identifier of the row; and

a creation module, configured to determine, in response to no shard identifier corresponding to the shard combination identifier, a newly-added shard identifier corresponding to the shard combination identifier, and create a newly-added sharded table corresponding to the newly-added shard identifier, wherein the write module is configured to write data in a row of the rows in the original data table that corresponds to the newly-added shard identifier into the newly-added sharded table.

7. A computer device, comprising: a memory and a processor, wherein

the memory stores a computer program;

the processor, when executing the computer program, performs the method for sharding the database table according to any one of claims 1 to 5.

8. A computer-readable storage medium, storing a computer program, wherein

the computer program, when being executed by a processor, performs the method for sharding the database table according to any one of claims 1 to 5.