## CLAIMS

1. A data caching method, comprising:

after receiving a data request sent by a client, determining a remaining valid cache duration of cache data corresponding to the data request;

determining whether the remaining valid cache duration is greater than a preset update threshold value; and

if the remaining valid cache duration is less than or equal to the update threshold value, updating the cache data through a database;

if another data request corresponding to the cache data is received during an period when the cache data is updated through the database, cancelling the determination of whether the remaining valid cache duration is greater than the preset update threshold value.

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

when the stored cache data expires, checking whether a data request sent by a client and corresponding to the cache data is received;

if no data request sent by the client and corresponding to the cache data is received, updating the cache data through the database; and

if a data request sent by the client and corresponding to the cache data is received, searching the database for data corresponding to the data request, returning obtained data to the client, and updating the cache data based on the obtained data.

3. The method according to claim 1 or 2, further comprising:

when a data resource is accessed for a first time, dividing data comprised in the data resource into at least two data sets according to a resource type and a preset rule; and

separately caching each of the data sets and generating a key corresponding to each of the data sets, causing the cache data to be searched subsequently based on the keys, wherein each of the data sets has a different expiration time point.

4. The method according to claim 3, wherein the dividing data comprised in the data resource into at least two data sets according to a resource type and a preset rule comprises:

when the data resource is a first page for presenting fixed data, dividing the data comprised in the first page and obtained from the database into the at least two data sets according to the page layout of the first page; and

when the data resource is a second page having a condition query function, dividing the data comprised in the second page and obtained from the database into the at least two data sets according to a combination of query conditions that the second page involves, wherein the second page comprises a plurality of sets of query conditions, result data corresponding to one

set of query conditions is a data set, and one set of query conditions comprises at least one query condition.

5. The method according to claim 3, wherein the determination of whether the remaining valid cache duration is greater than a preset update threshold value comprises:

determining whether the remaining valid cache duration of a data set corresponding to the data request is greater than the update threshold value.

6. A data caching apparatus, comprising:

a confirming unit configured to, after receiving a data request sent by a client, determine a remaining valid cache duration of cache data corresponding to the data request;

a determining unit configured to determine whether the remaining valid cache duration obtained by the confirming unit is greater than a preset update threshold value;

an updating unit configured to, if a determination result of the determining unit is that the remaining valid cache duration is less than or equal to the update threshold value, update the cache data through a database; and

a cancelling unit configured to, if another data request corresponding to the cache data is received during an period when the cache data is updated through the database, cancel the determination of whether the remaining valid cache duration is greater than the preset update threshold value.

7. The apparatus according to claim 6, further comprising:

a querying unit configured to, when the cache data expires, check whether a data request sent by a client and corresponding to the cache data is received;

the updating unit further configured to, when no data request sent by the client and corresponding to the cache data is received, update the cache data through the database;

a sending unit configured to, if a data request sent by the client and corresponding to the cache data is received, search the database for data corresponding to the data request, and return obtained data to the client; and

the updating unit further configured to update the cache data based on the obtained data.

8. The apparatus according to of claim~~s~~ 6 or 7, further comprising:

a dividing unit configured to, when a data resource is accessed for a first time, divide data comprised in the data resource into at least two data sets according to a resource type and a preset rule; and

a caching unit configured to separately cache each of the data sets obtained by the dividing unit and generate a key corresponding to each of the data sets, for subsequently searching the cache data based on the keys, wherein each of the data sets has a different expiration time point.

9. The apparatus according to claim 8, wherein the dividing unit comprises:

a first dividing module configured to, when the data resource is a first page for presenting fixed data, divide the data comprised in the first page and obtained from the database into the at least two data sets according to the page layout of the first page;

a second dividing module configured to, when the data resource is a second page having a condition query function, divide the data comprised in the second page and obtained from the database into the at least two data sets according to a combination of query conditions that the second page involves, wherein the second page comprises a plurality of sets of query conditions, result data corresponding to one set of query conditions is a data set, and one set of query conditions comprises at least one query condition.

10. The apparatus according to claim 9, wherein the determining unit is configured to determine whether the remaining valid cache duration of a data set corresponding to the data request is greater than an update threshold value.