## CLAIMS

What is claimed is:

1. A data compression method, comprising:

obtaining a to-be-compressed object;

obtaining access requirement information of the to-be-compressed object, wherein the access requirement information is related to decompression efficiency of the to-be-compressed object;

searching a recommendation record for a recommended compression coding rule that meets a compression rate condition, wherein the recommendation record is configured to record a compression coding rule of a historical compressed object and corresponding compression rate information, the historical compressed object is of the same type as the to-be-compressed object, and the compression rate condition includes a compression rate of the recommended compression coding rule being higher than a specified threshold and the compression rate information of the recommended compression coding rule matching the access requirement information;

when the recommended compression coding rule that meets the compression rate condition is not found, starting a regular compression coding process to obtain estimated compression rates of a plurality of compression coding rules for the to-be-compressed object, selecting a target compression coding rule based on at least the estimated compression rates, and compressing the to-be-compressed object by using the target compression coding rule, wherein the estimated compression rate of each of the plurality of compression coding rules is determined based on a ratio of a size of the to-be-compressed object after compression by the regular compression coding process to an original size of the to-be-compressed object; and

after compressing the to-be-compressed object, updating the recommendation record based on a compression coding rule used for the to-be-compressed object, wherein compression rate information of the compression coding rule includes a confidence level indicating an actual compression rate of the compression coding rule,

if the compression coding rule used for the to-be-compressed object is a recommended compression coding rule recorded in the recommendation record, and an actual compression rate of the to-be-compressed object matches the access

requirement information, increasing a confidence level of the recommended compression coding rule; otherwise, reducing a confidence level of the recommended compression coding rule, and

if the compression coding rule used for the to-be-compressed object is different from a recommended compression coding rule recorded in the recommendation record, and an actual compression rate of the to-be-compressed object matches the access requirement information, replacing the recommended compression coding rule in the recommendation record with the compression coding rule used for the to-be-compressed object.

2. The method according to claim 1, wherein the to-be-compressed object includes to-be-compressed data units obtained by splitting to-be-compressed data, and the historical compressed object includes other historical compressed data units obtained by splitting the to-be-compressed data.

3. The method according to claim 1, wherein the to-be-compressed object includes to-be-compressed data units obtained by splitting to-be-compressed data in a data table, and the historical compressed object includes historical compressed data units corresponding to the data table.

4. The method according to claim 1, wherein the to-be-compressed object includes a column of to-be-compressed data in a data table, and the historical compressed object includes historical compressed data in the same column as the column of to-be-compressed data in the data table.

5. The method according to claim 1, wherein the to-be-compressed object includes a duplicate of a data table, and the historical compressed object includes a main data table corresponding to the duplicate of the data table.

6. The method according to claim 1, wherein the updating the recommendation record based on the compression coding rule used for the to-be-compressed object includes:

obtaining the actual compression rate of the to-be-compressed object, and updating the recommendation record based on at least the actual compression rate and the compression coding rule used for the to-be-compressed object.

7. The method according to claim 1, wherein the selecting the target compression coding rule based on at least the estimated compression rates includes:

selecting the target compression coding rule based on the estimated compression

rates and the access requirement information.

8. The method according to claim 1, wherein the access requirement information of the to-be-compressed object is determined by obtaining historical access data of one or more of the to-be-compressed object or the historical compressed object.

9. The method according to claim 8, wherein the historical access data includes a historical access frequency.

10. A data compression apparatus, the apparatus comprising:

a processor; and

a memory storing instructions executable by the processor,

wherein the processor is configured to:

obtain a to-be-compressed object;

obtain access requirement information of the to-be-compressed object, wherein the access requirement information is related to decompression efficiency of the to-be-compressed object;

search a recommendation record for a recommended compression coding rule that meets a compression rate condition, wherein the recommendation record is configured to record a compression coding rule of a historical compressed object and corresponding compression rate information, the historical compressed object is of the same type as the to-be-compressed object, and the compression rate condition includes a compression rate of the recommended compression coding rule being higher than a specified threshold and the compression rate information of the recommended compression coding rule matching the access requirement information;

when the recommended compression coding rule that meets the compression rate condition is not found, start a regular compression coding process to obtain estimated compression rates of a plurality of compression coding rules for the to-be-compressed object, select a target compression coding rule based on at least the estimated compression rates, and compress the to-be-compressed object by using the target compression coding rule, wherein the estimated compression rate of each of the plurality of compression coding rules is determined based on a ratio of a size of the to-be-compressed object after compression by the regular compression coding process to an original size of the to-be-compressed object; and

after compressing the to-be-compressed object, update the recommendation record based on a compression coding rule used for the to-be-compressed object,

wherein compression rate information of the compression coding rule includes a confidence level indicating an actual compression rate of the compression coding rule,

if the compression coding rule used for the to-be-compressed object is a recommended compression coding rule recorded in the recommendation record, and an actual compression rate of the to-be-compressed object matches the access requirement information, increase a confidence level of the recommended compression coding rule; otherwise, reduce a confidence level of the recommended compression coding rule, and

if the compression coding rule used for the to-be-compressed object is different from a recommended compression coding rule recorded in the recommendation record, and an actual compression rate of the to-be-compressed object matches the access requirement information, replace the recommended compression coding rule in the recommendation record with the compression coding rule used for the to-be-compressed object.