

CLAIMS

What is claimed is:

1. A method for managing and controlling a resource based on a time series database, the method comprising:

acquiring metadata of the resource, the metadata referring to an acquisition metric of the resource;

aggregating the metadata according to an aggregation strategy to obtain aggregated metadata, the aggregation strategy being configured to aggregate the metadata based on a data metric of the metadata; and

managing and controlling the resource in the time series database based on the aggregated metadata.

2. The method according to claim 1, wherein managing and controlling the resource based on the aggregated metadata comprises:

invoking a resource managing and controlling model, and outputting a resource report corresponding to the resource based on the aggregated metadata, the resource managing and controlling model being configured to establish a corresponding relationship between the metadata and the resource report.

3. The method according to claim 2, wherein the resource managing and controlling model comprises a resource managing function, dependent variables of the resource managing function comprise the resource report, and independent variables of the resource managing function comprise at least one of: a data source attribute, a metric type, a management dimension and a report period, wherein the data source attribute refers to an invoker of the resource managing and controlling model, the metric type refers to a type of the metadata, the management dimension refers to a data tag of the metadata, and the report period refers to a period of invoking the resource managing and controlling model.

4. The method according to claim 1, wherein after acquiring the metadata of the resource, the method further comprises:

determining whether the metadata is in a preset format; and

performing format conversion on the metadata to obtain the metadata in the preset format in the case that the metadata is not in the preset format, wherein

the metadata in the preset format is configured to be aggregated to obtain the aggregated

metadata.

5. The method according to claim 1, wherein after acquiring the metadata of the resource, the method further comprises:

acquiring an extension strategy which is configured to perform information extension on a data tag of the metadata, the data tag being configured to indicate attribute information of the metadata; and

performing the information extension on the metadata according to the extension strategy to obtain extended metadata, wherein

the extended metadata is configured to be aggregated to obtain the aggregated metadata.

6. The method according to claim 1, wherein the aggregation strategy comprises a computational aggregation strategy; and

aggregating the metadata according to the aggregation strategy to obtain the aggregated metadata comprises:

computing an expected value of the metadata according to the computational aggregation strategy, the expected value being a value obtained by processing the data metric of the metadata according to the computational aggregation strategy; and

taking the expected value as the data metric of the metadata to obtain the aggregated metadata.

7. The method according to claim 1, wherein the aggregation strategy comprises a dimensional aggregation strategy; and

aggregating the metadata according to the aggregation strategy to obtain the aggregated metadata comprises:

categorizing the metadata according to the dimensional aggregation strategy to obtain m types of metadata, m being a positive integer;

for an n^{th} type of metadata in the m types of metadata, aggregating data metrics of the n^{th} type of metadata, n being a positive integer; and

taking an aggregated data metric as the data metric of the n^{th} type of metadata to obtain the aggregated metadata.

8. An apparatus for managing and controlling a resource, the apparatus comprising:

a data acquiring module, configured to acquire metadata of the resource, the metadata referring

to an acquisition metric of the resource;

an aggregating module, configured to aggregate the metadata according to an aggregation strategy to obtain aggregated metadata, the aggregation strategy being configured to aggregate the metadata based on a data metric of the metadata; and

a resource managing and controlling module, configured to manage and control the resource in a time series database based on the aggregated metadata.

9. A computer device, comprising a processor and a memory, wherein the memory stores therein a computer program that, when loaded and executed by the processor, causes the processor to implement the method according to any of claims 1 to 7.

10. A non-transitory computer-readable storage medium, storing thereon a computer program, wherein the computer program, when executed by a processor, causes the processor to implement the method according to any of claims 1 to 7.