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Indexing

Introduction to Indexes

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- Support the efficient execution of queries.
- Help you increase the speed of querying data.
- Great way to fix queries as they organize data by a given field to let MongoDB find it quickly.
- Keep all its value in a sorted order so it makes sorting documents by the indexed key much faster.
- Indexes are basically trees, with the smallest value on the leftmost leaf and the greatest on the rightmost.

Indexes Continued

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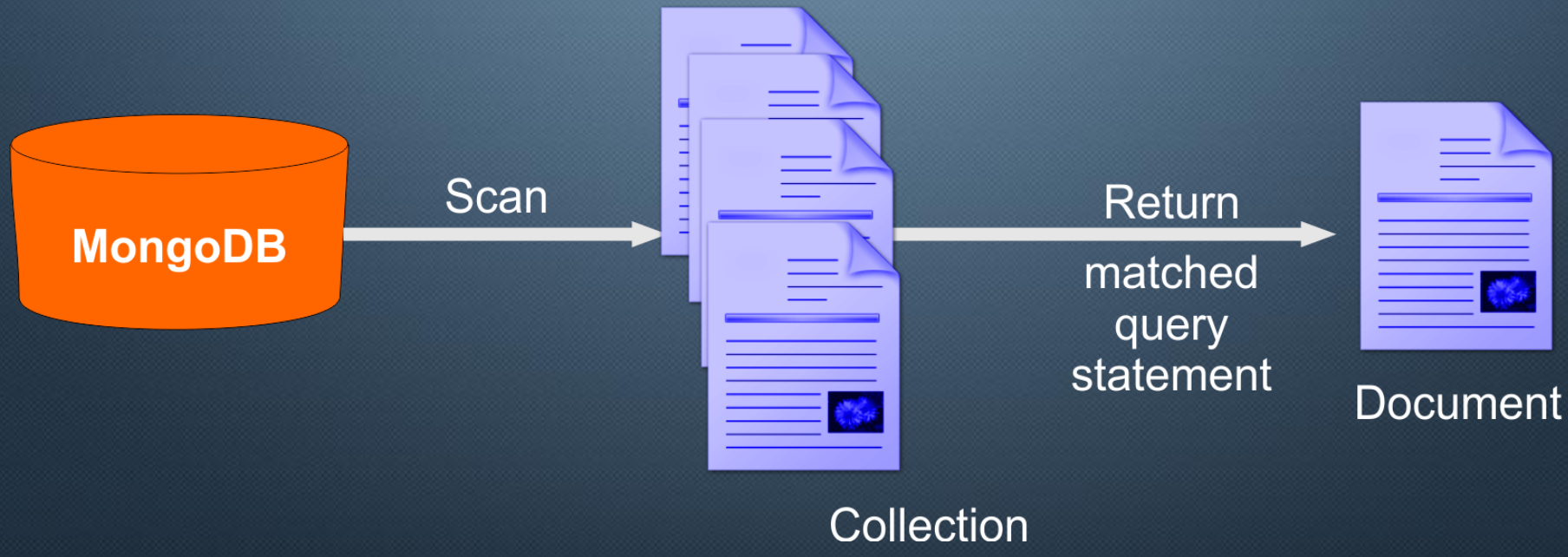
Without indexes, MongoDB must scan every document in a collection to select those documents that match the query statement.



Indexes Continued

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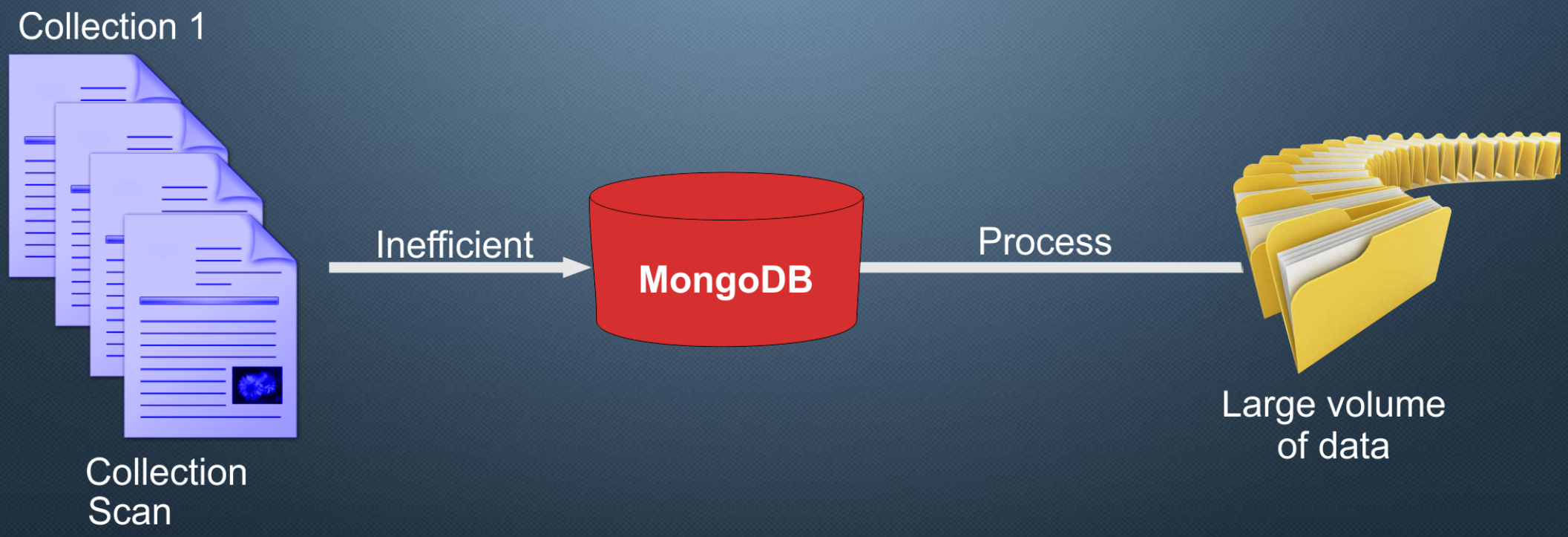
But collection scans are inefficient because they require mongod to process a larger volume of data for each operation.



Indexes Continued

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The index stores the value of a specific field or set of fields, ordered by the value of the field.

Indexes Continued

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Indexes are special data structures that store a small portion of the collection's data set in an 'easy to traverse' form.

Indexes in MongoDB are similar to indexes in other database systems.

Indexes Continued

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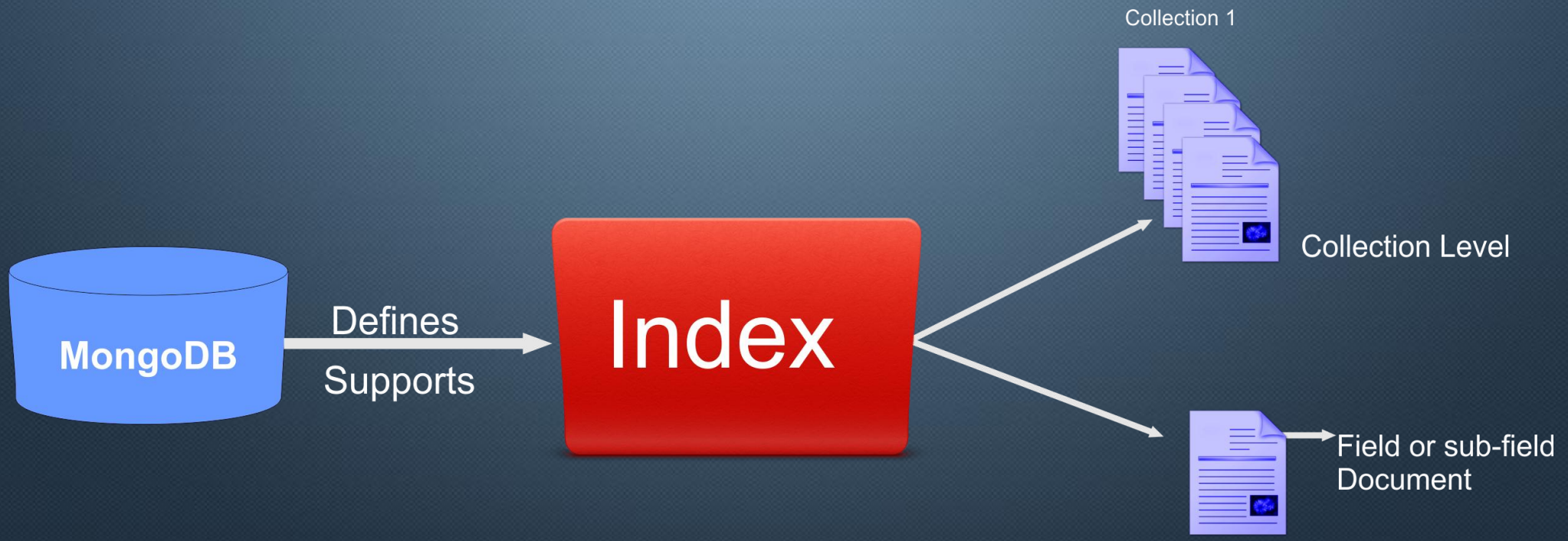
MongoDB defines indexes at the collection level and supports indexes on any field or sub-field of the documents in a MongoDB collection.