Indexes:

Single field

Compound

Multikey

Multikey indexes collect and sort data from fields containing array values. Multikey indexes improve performance for queries on array fields.

You do not need to explicitly specify the multikey type. When you create an index on a field that contains an array value, MongoDB automatically sets that index to be a multikey index.

MongoDB can create multikey indexes over arrays that hold both scalar values (for example, strings and numbers) and embedded documents.

To create a multikey index, use the following prototype:

db.<collection>.createIndex( { <arrayField>: <sortOrder> } )

Wildcards

MongoDB supports [flexible schemas](https://www.mongodb.com/docs/manual/core/data-modeling-introduction/#std-label-manual-data-modeling-intro), meaning document field names may differ within a collection. Use wildcard indexes to support queries against arbitrary or unknown fields.

To create a wildcard index, use the wildcard specifier ($\*\*) as the index key:

db.collection.createIndex( { **"$\*\*"**: <sortOrder> } )