

Data Relationships in MongoDB?





Connections between documents in collections.





Embedding





Storing related data inside the same document.





Referencing





Storing related data in separate documents and linking by IDs.



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- One-to-One Relationship
- One-to-Many Relationship
- Many-to-Many Relationship





Pros of Embedding

- Fast data retrieval (single document).
- Simple for small related data.

Cons of Embedding

- Document size grows big.
- Hard to update deeply nested data.





Pros of Referencing

- Keeps documents small.
- Easier to update and manage large data.

Cons of Referencing

- Requires extra queries or joins (populate() in Mongoose).
- Slightly slower reads.





When to Use Embedding?



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- Related data is mostly read together.
- Data is small and not updated frequently.





When to Use Referencing?



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- Related data is large or updated independently.
- Need to maintain data normalization.

