

# Interactive Challenge

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## Your Turn!

- Create a new database called `ShopDB`.
- Add a collection named `products`.
- Insert three product documents, each with different fields (e.g., one with `price`, one with `stock`, one with a nested object).
- Retrieve all products and observe the flexible schema.
- Insert a product with a custom `_id` and another with a `decimal128` price.
- Try inserting a document larger than 16MB (expect an error).
- Query products by type using the `$type` operator.

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## Your Turn!

- Design a `blog` database with `posts` and `comments`.
- Embed the five most recent comments in each `post` document; store all comments in a separate `comments` collection.
- Add a validation rule to the `posts` collection requiring a `title` (string) and `createdAt` (date).
- Insert a post with embedded comments and a separate comment document.
- Query posts and comments using both embedded and referenced approaches.
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## Your Turn!

- Create a `users` collection and add a single field index on `email`.
- Create a compound index on `firstName` and `lastName` in the `users` collection.
- Add a TTL index to a `logs` collection to expire documents after 7 days.
- Create a text index on the `description` field of a `products` collection and perform a text search for the word “wireless”.
- View all indexes in the `products` collection and drop a specific index.