

EXPERIMENT NO. 6 - MongoDB

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AIM: To study CRUD operations in MongoDB

OVERVIEW OF TASKS PERFORMED :

The experiment involves working with MongoDB to create and manipulate a database. The "inventory" database and "products" collection were created with fields such as ProductID, ProductName, Category, Price, and Stock. Ten documents were inserted, followed by various queries to retrieve all products, filter by category, sort by name, limit results, count products, hide the _id field, find distinct categories, and apply range conditions. Additionally, a product's price was updated, and a specific product entry was deleted.

OUTPUT:

Insert Data (Create Operation)

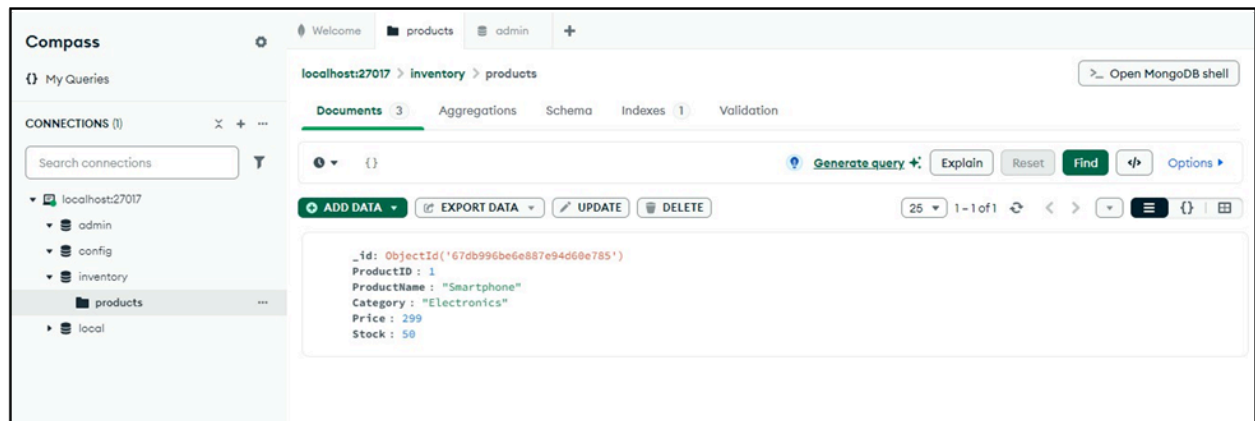
Insert Document

To collection inventory.products

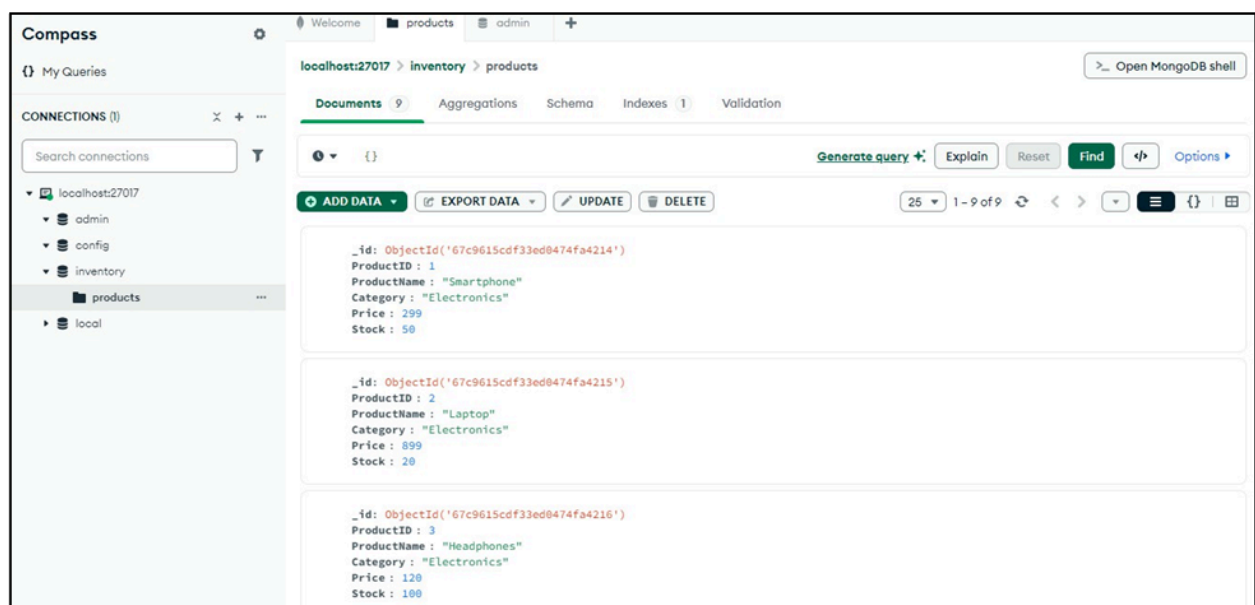
VIEW { } ≡

```
1 {
2   "ProductID": 1,
3   "ProductName": "Smartphone",
4   "Category": "Electronics",
5   "Price": 299,
6   "Stock": 50
7 }
8
```

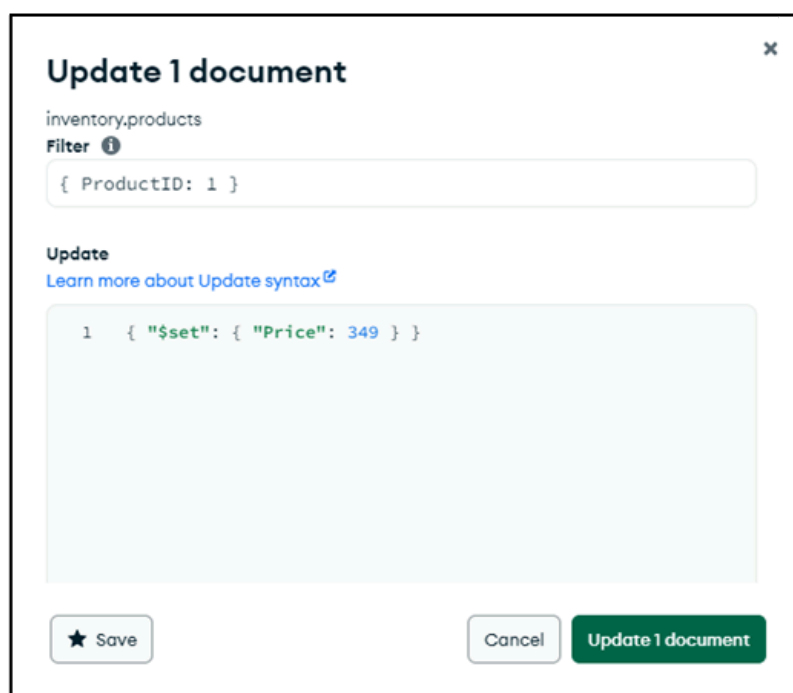
Cancel Insert

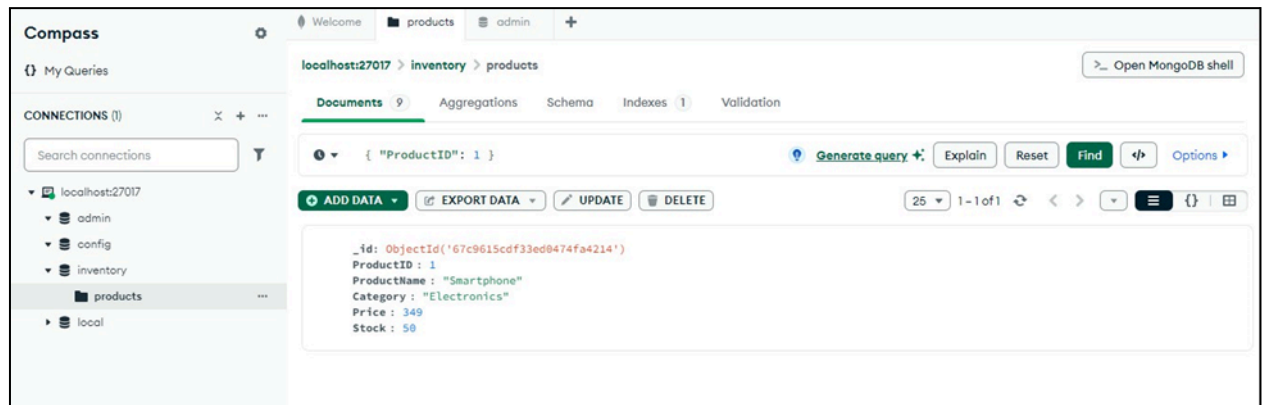


Read Data (Retrieve Documents)

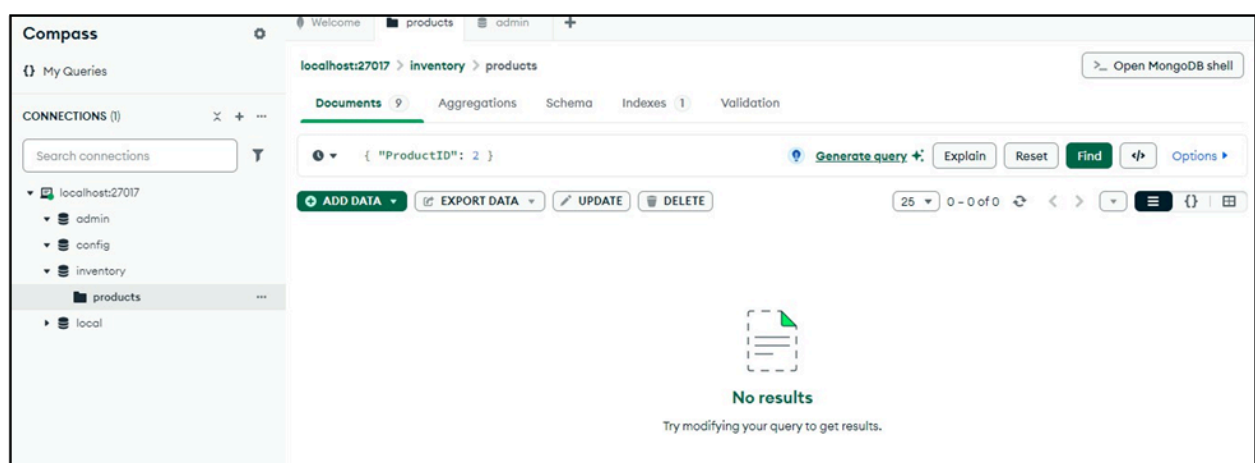
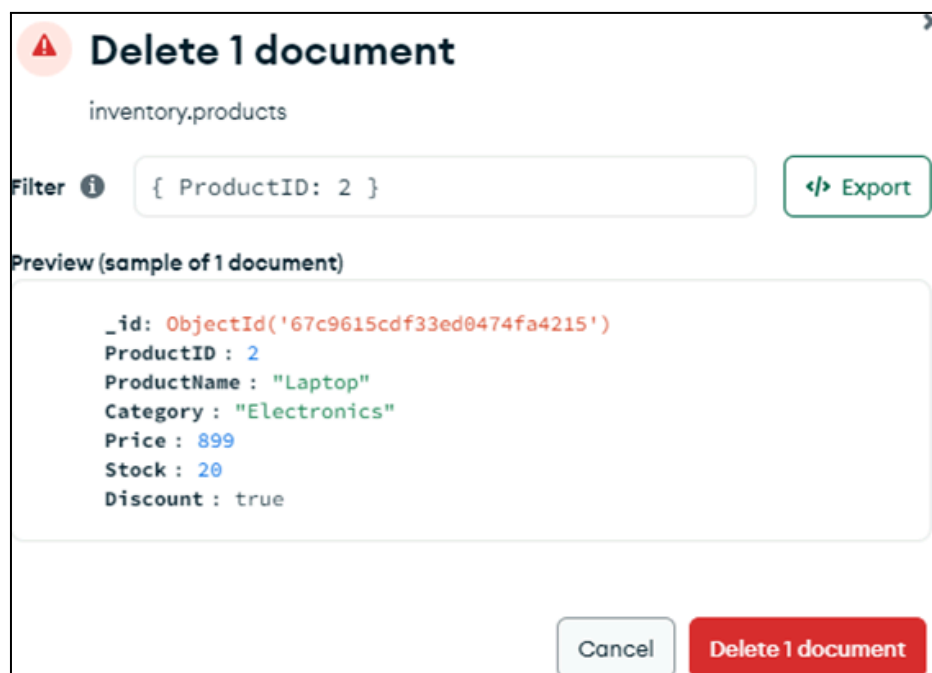


Update Data





Delete Data



CONCLUSION

Through this experiment, we successfully performed CRUD operations in MongoDB, including creating a database, inserting documents, querying data, updating records, and deleting entries. We also explored filtering data, sorting, and aggregation queries. MongoDB's document-oriented structure and flexible schema make it an ideal choice for handling large-scale, unstructured data in real-world applications.