EXPERIMENT NO. 6 - MongoDB

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Sign and Grade	

AIM : To study CRUD operations in MongoDB

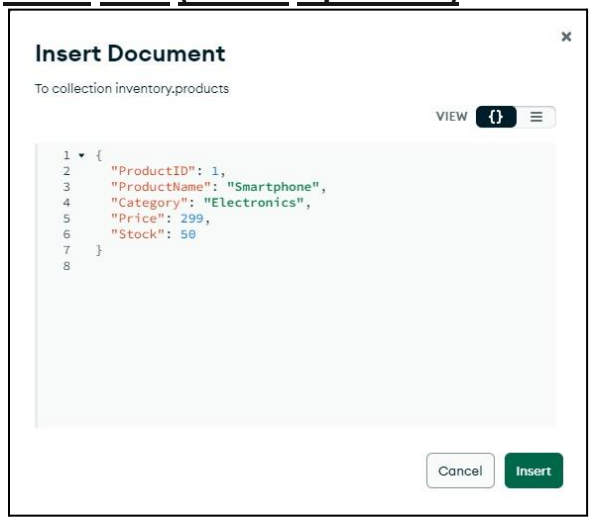
OVERVIEW OF TASKS PERFORMED :

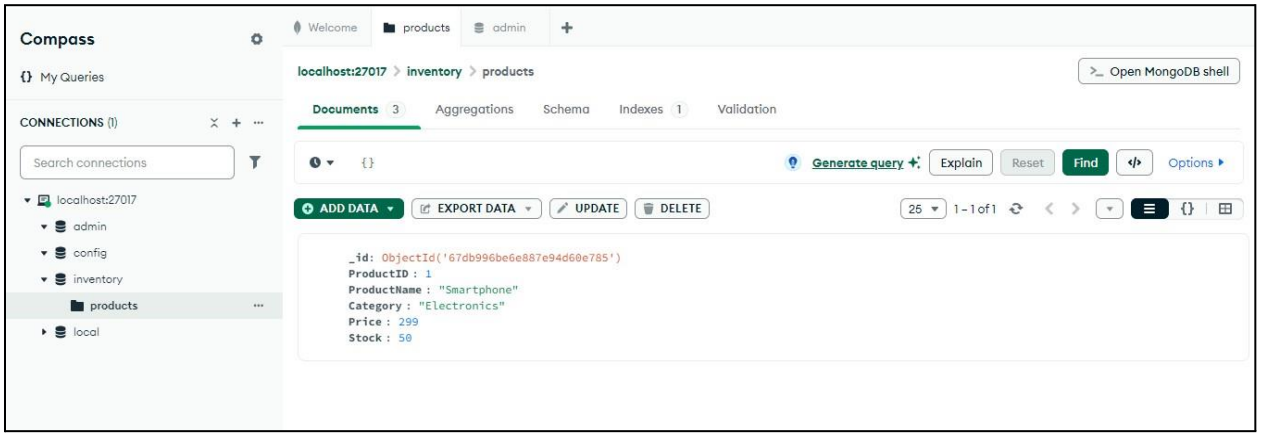
The experiment involves working with MongoDB to create and manipulate a database. The **"inventory"** database and **"products"** collection were created with fields such as ProductID, ProductName, Category, Price, and Stock. Ten documents were inserted, followed by various queries to retrieve all products, 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.

GITHUB LINK - https://github.com/Rohan-Lalchandani08/WebX_Lab/tree/main/WebX_Exp%206

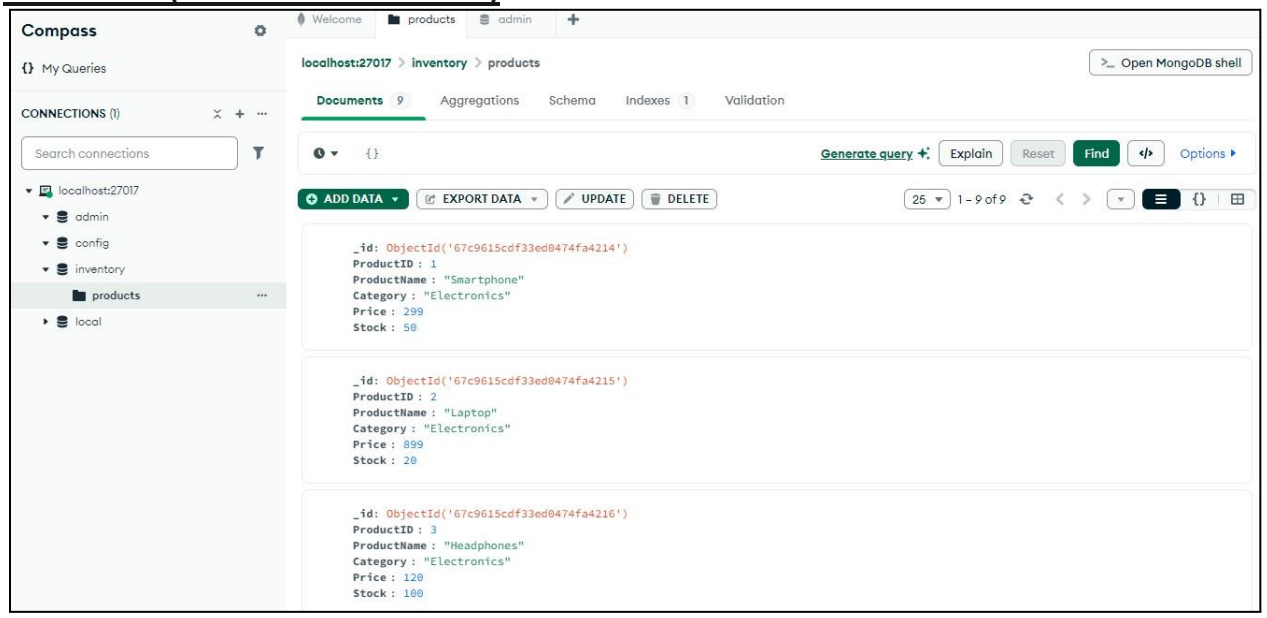
OUTPUT :

Insert Data (Create Operation)

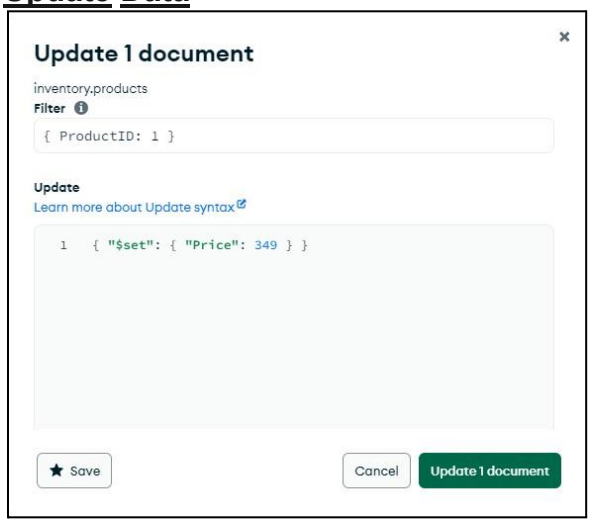


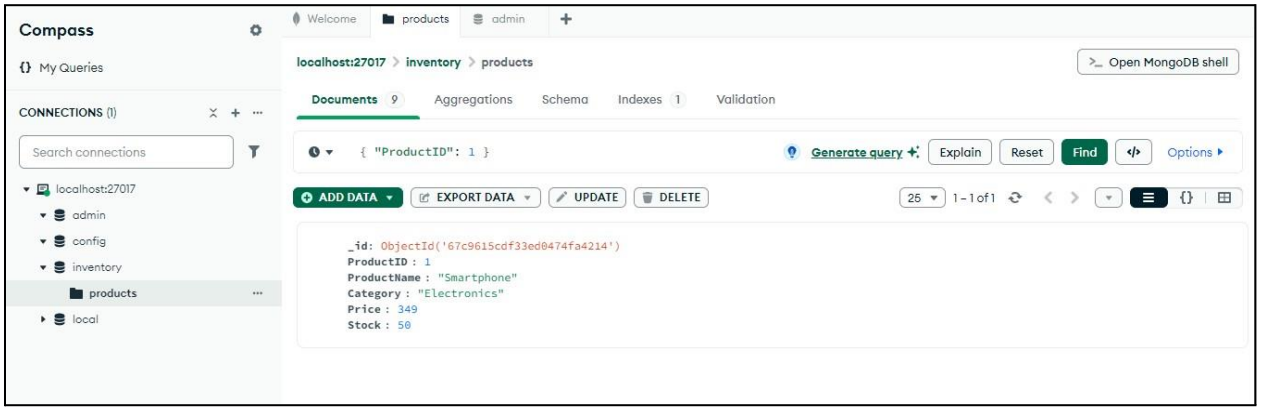


Read Data (Retrieve Documents)

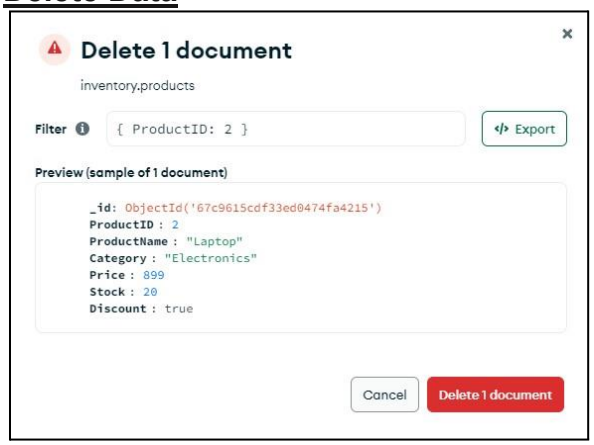


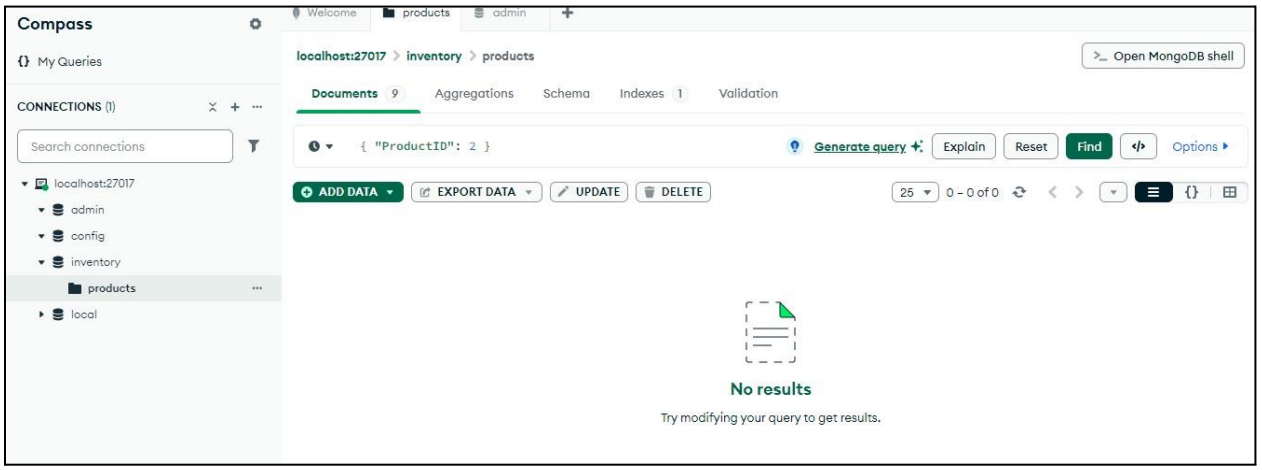
Update Data





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.