1. \*\*Create Operation:\*\*

Question - Create a new database named "library" and switch to it.

test> use library

library>

Question - Create a collection named "books" with fields: title, author, and published\_year

library> db.createCollection("books")

Question - Insert a document into the "books" collection with the details of your favorite book.

library> db.books.insertMany([{title:"Happy ending",author:"J.K. Rowling",Publishedyear:2021},{title:"Riverdale",author:"Betty Copper",Publishedyear:2024}])

2. \*\*Read Operation:\*\*

# Question - Retrieve all documents from the "books" collection.

library> db.books.find()

Question - Find and display only the documents where the author is "J.K. Rowling".

library> db.books.find({ author: "J.K. Rowling" })

Question - Fetch and display the document with the earliest published year.

db.books.find().sort({Publishedyear:1}).limit(1)

3. \*\*Update Operation:\*\*

Question - - Update the published year of the book with the title "The Catcher in the Rye" to the current year.

library> db.books.update({title:"Catcher in the Eye"},{$set:{Publishedyear:2025}})

Question - Add a new field "genre" with the value "Mystery" to all documents in the "books" collection.

library> db.books.update({},{$set:{genre:"Mystery"}},{multi:true})

4. \*\*Delete\*\*

Question - Remove the document with the title "2025"

library> db.books.remove({Publishedyear:2025})

Question - Delete all documents where the published year is before 2021

library> db.books.remove({Publishedyear:{$lt:2021}})

5. \*\*Advanced Query:\*\*

Question - Find and display the top 3 recently published books from the "books" collection.

library> db.books.find().sort({Publishedyear:-1}).limit(3)

Question - Retrieve documents from the "books" collection where the title contains the word "MongoDB" or "NoSQL".

library> db.books.find({"title" : {$regex : "NoSQL"}})

library> db.books.find({"title" : {$regex : "MongoDB"}})