**Name : Kashid Raj Shivaji**

**Roll No: 13215**

**TE ‘B’**

**Practical No: 10**

**Please enter a MongoDB connection string (Default: mongodb://localhost/):**

**Current Mongosh Log ID: 6349520ccd7f476049eb8d23**

**Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.6.0**

**Using MongoDB: 6.0.2**

**Using Mongosh: 1.6.0**

**For mongosh info see: https://docs.mongodb.com/mongodb-shell/**

**To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.com/legal/privacy-policy).**

**You can opt-out by running the disableTelemetry() command.**

**------**

**The server generated these startup warnings when booting**

**2022-10-14T16:56:06.032+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted**

**------**

**------**

**Enable MongoDB's free cloud-based monitoring service, which will then receive and display**

**metrics about your deployment (disk utilization, CPU, operation statistics, etc).**

**The monitoring data will be available on a MongoDB website with a unique URL accessible to you**

**and anyone you share the URL with. MongoDB may use this information to make product**

**improvements and to suggest MongoDB products and deployment options to you.**

**To enable free monitoring, run the following command: db.enableFreeMonitoring()**

**To permanently disable this reminder, run the following command: db.disableFreeMonitoring()**

**------**

**test> show dbs**

**admin 40.00 KiB**

**config 72.00 KiB**

**local 40.00 KiB**

**test> use book**

**switched to db book**

**book> show collections;**

**book> db.createCollection("library");**

**{ ok: 1 }**

**book> db.library.insert({"bid":1,"name":"C++"});**

**DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.**

**{**

**acknowledged: true,**

**insertedIds: { '0': ObjectId("6349552490a98db874e2a71d") }**

**}**

**book> db.library.insert({"bid":2,"name":"SEPM","author":"Pressman"});**

**{**

**acknowledged: true,**

**insertedIds: { '0': ObjectId("634955a590a98db874e2a71e") }**

**}**

**book> db.library.insert({"bid":3,"name":"CN","author":"Forouzan","cost":700});**

**{**

**acknowledged: true,**

**insertedIds: { '0': ObjectId("634955dc90a98db874e2a71f") }**

**}**

**book> db.library.find().pretty();**

**[**

**{ \_id: ObjectId("6349552490a98db874e2a71d"), bid: 1, name: 'C++' },**

**{**

**\_id: ObjectId("634955a590a98db874e2a71e"),**

**bid: 2,**

**name: 'SEPM',**

**author: 'Pressman'**

**},**

**{**

**\_id: ObjectId("634955dc90a98db874e2a71f"),**

**bid: 3,**

**name: 'CN',**

**author: 'Forouzan',**

**cost: 700**

**}**

**]**

**book> db.library.remove({"bid":1});**

**DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.**

**{ acknowledged: true, deletedCount: 1 }**

**book> db.library.count();**

**2**

**book> db.library.find().pretty();**

**[**

**{**

**\_id: ObjectId("634955a590a98db874e2a71e"),**

**bid: 2,**

**name: 'SEPM',**

**author: 'Pressman'**

**},**

**{**

**\_id: ObjectId("634955dc90a98db874e2a71f"),**

**bid: 3,**

**name: 'CN',**

**author: 'Forouzan',**

**cost: 700**

**}**

**]**

**book> db.library.insert({"bid":1,"name":"C++"});**

**{**

**acknowledged: true,**

**insertedIds: { '0': ObjectId("6349574090a98db874e2a720") }**

**}**

**book> db.library.find().pretty();**

**[**

**{**

**\_id: ObjectId("634955a590a98db874e2a71e"),**

**bid: 2,**

**name: 'SEPM',**

**author: 'Pressman'**

**},**

**{**

**\_id: ObjectId("634955dc90a98db874e2a71f"),**

**bid: 3,**

**name: 'CN',**

**author: 'Forouzan',**

**cost: 700**

**},**

**{ \_id: ObjectId("634957a890a98db874e2a721"), bid: 1, name: 'C++' }**

**]**

**book> db.library.find().sort({"bid":1})**

**[**

**{ \_id: ObjectId("634957a890a98db874e2a721"), bid: 1, name: 'C++' },**

**{**

**\_id: ObjectId("634955a590a98db874e2a71e"),**

**bid: 2,**

**name: 'SEPM',**

**author: 'Pressman'**

**},**

**{**

**\_id: ObjectId("634955dc90a98db874e2a71f"),**

**bid: 3,**

**name: 'CN',**

**author: 'Forouzan',**

**cost: 700**

**}**

**]**

**book> db.library.insert({"bid":4,"name":"SPOS","author":"Pearson","cost":500});**

**{**

**acknowledged: true,**

**insertedIds: { '0': ObjectId("6349588d90a98db874e2a722") }**

**}**

**book> db.library.find().pretty();**

**[**

**{**

**\_id: ObjectId("634955a590a98db874e2a71e"),**

**bid: 2,**

**name: 'SEPM',**

**author: 'Pressman'**

**},**

**{**

**\_id: ObjectId("634955dc90a98db874e2a71f"),**

**bid: 3,**

**name: 'CN',**

**author: 'Forouzan',**

**cost: 700**

**},**

**{ \_id: ObjectId("634957a890a98db874e2a721"), bid: 1, name: 'C++' },**

**{**

**\_id: ObjectId("6349588d90a98db874e2a722"),**

**bid: 4,**

**name: 'SPOS',**

**author: 'Pearson',**

**cost: 500**

**}**

**]**

**book> db.library.find().sort({"bid":1})**

**[**

**{ \_id: ObjectId("634957a890a98db874e2a721"), bid: 1, name: 'C++' },**

**{**

**\_id: ObjectId("634955a590a98db874e2a71e"),**

**bid: 2,**

**name: 'SEPM',**

**author: 'Pressman'**

**},**

**{**

**\_id: ObjectId("634955dc90a98db874e2a71f"),**

**bid: 3,**

**name: 'CN',**

**author: 'Forouzan',**

**cost: 700**

**},**

**{**

**\_id: ObjectId("6349588d90a98db874e2a722"),**

**bid: 4,**

**name: 'SPOS',**

**author: 'Pearson',**

**cost: 500**

**}**

**]**

**book> db.library.find({$and:[{"name":"CN"},{"cost":700}]}).pretty()**

**[**

**{**

**\_id: ObjectId("634955dc90a98db874e2a71f"),**

**bid: 3,**

**name: 'CN',**

**author: 'Forouzan',**

**cost: 700**

**}**

**]**

**book> db.library.insert({"bid":5,"name":"TOC","author":"Addison-Wesley","cost":600});**

**{**

**acknowledged: true,**

**insertedIds: { '0': ObjectId("634959e390a98db874e2a723") }**

**}**

**book> db.library.insert({"bid":6,"name":"AI","author":"McGraw Hill Education","cost":800});**

**{**

**acknowledged: true,**

**insertedIds: { '0': ObjectId("63495a2090a98db874e2a724") }**

**}**

**book> db.library.find().pretty();**

**[**

**{**

**\_id: ObjectId("634955a590a98db874e2a71e"),**

**bid: 2,**

**name: 'SEPM',**

**author: 'Pressman'**

**},**

**{**

**\_id: ObjectId("634955dc90a98db874e2a71f"),**

**bid: 3,**

**name: 'CN',**

**author: 'Forouzan',**

**cost: 700**

**},**

**{ \_id: ObjectId("634957a890a98db874e2a721"), bid: 1, name: 'C++' },**

**{**

**\_id: ObjectId("6349588d90a98db874e2a722"),**

**bid: 4,**

**name: 'SPOS',**

**author: 'Pearson',**

**cost: 500**

**},**

**{**

**\_id: ObjectId("634959e390a98db874e2a723"),**

**bid: 5,**

**name: 'TOC',**

**author: 'Addison-Wesley',**

**cost: 600**

**},**

**{**

**\_id: ObjectId("63495a2090a98db874e2a724"),**

**bid: 6,**

**name: 'AI',**

**author: 'McGraw Hill Education',**

**cost: 800**

**}**

**]**

**book> db.library.find({$or:[{"cost":500},{"cost":800}]}).pretty()**

**[**

**{**

**\_id: ObjectId("6349588d90a98db874e2a722"),**

**bid: 4,**

**name: 'SPOS',**

**author: 'Pearson',**

**cost: 500**

**},**

**{**

**\_id: ObjectId("63495a2090a98db874e2a724"),**

**bid: 6,**

**name: 'AI',**

**author: 'McGraw Hill Education',**

**cost: 800**

**}**

**]**

**book> db.library.find({"cost":{$ne:500}})**

**[**

**{**

**\_id: ObjectId("634955a590a98db874e2a71e"),**

**bid: 2,**

**name: 'SEPM',**

**author: 'Pressman'**

**},**

**{**

**\_id: ObjectId("634955dc90a98db874e2a71f"),**

**bid: 3,**

**name: 'CN',**

**author: 'Forouzan',**

**cost: 700**

**},**

**{ \_id: ObjectId("634957a890a98db874e2a721"), bid: 1, name: 'C++' },**

**{**

**\_id: ObjectId("634959e390a98db874e2a723"),**

**bid: 5,**

**name: 'TOC',**

**author: 'Addison-Wesley',**

**cost: 600**

**},**

**{**

**\_id: ObjectId("63495a2090a98db874e2a724"),**

**bid: 6,**

**name: 'AI',**

**author: 'McGraw Hill Education',**

**cost: 800**

**}**

**]**

**book> db.library.find({$nor:[{"cost":500},{"author":"Forouzan"}]})**

**[**

**{**

**\_id: ObjectId("634955a590a98db874e2a71e"),**

**bid: 2,**

**name: 'SEPM',**

**author: 'Pressman'**

**},**

**{ \_id: ObjectId("634957a890a98db874e2a721"), bid: 1, name: 'C++' },**

**{**

**\_id: ObjectId("634959e390a98db874e2a723"),**

**bid: 5,**

**name: 'TOC',**

**author: 'Addison-Wesley',**

**cost: 600**

**},**

**{**

**\_id: ObjectId("63495a2090a98db874e2a724"),**

**bid: 6,**

**name: 'AI',**

**author: 'McGraw Hill Education',**

**cost: 800**

**}**

**]**

**book> db.library.find({"cost":{$not:{$gt:800}}})**

**[**

**{**

**\_id: ObjectId("634955a590a98db874e2a71e"),**

**bid: 2,**

**name: 'SEPM',**

**author: 'Pressman'**

**},**

**{**

**\_id: ObjectId("634955dc90a98db874e2a71f"),**

**bid: 3,**

**name: 'CN',**

**author: 'Forouzan',**

**cost: 700**

**},**

**{ \_id: ObjectId("634957a890a98db874e2a721"), bid: 1, name: 'C++' },**

**{**

**\_id: ObjectId("6349588d90a98db874e2a722"),**

**bid: 4,**

**name: 'SPOS',**

**author: 'Pearson',**

**cost: 500**

**},**

**{**

**\_id: ObjectId("634959e390a98db874e2a723"),**

**bid: 5,**

**name: 'TOC',**

**author: 'Addison-Wesley',**

**cost: 600**

**},**

**{**

**\_id: ObjectId("63495a2090a98db874e2a724"),**

**bid: 6,**

**name: 'AI',**

**author: 'McGraw Hill Education',**

**cost: 800**

**}**

**]**

**book> db.library.save({"bid":7,"name":"CC","author":"Wiley Publications","cost":400})**

**{**

**acknowledged: true,**

**insertedIds: { '0': ObjectId("6349ab9390a98db874e2a725") }**

**}**

**book> db.library.find()**

**[**

**{**

**\_id: ObjectId("634955a590a98db874e2a71e"),**

**bid: 2,**

**name: 'SEPM',**

**author: 'Pressman'**

**},**

**{**

**\_id: ObjectId("634955dc90a98db874e2a71f"),**

**bid: 3,**

**name: 'CN',**

**author: 'Forouzan',**

**cost: 700**

**},**

**{ \_id: ObjectId("634957a890a98db874e2a721"), bid: 1, name: 'C++' },**

**{**

**\_id: ObjectId("6349588d90a98db874e2a722"),**

**bid: 4,**

**name: 'SPOS',**

**author: 'Pearson',**

**cost: 500**

**},**

**{**

**\_id: ObjectId("634959e390a98db874e2a723"),**

**bid: 5,**

**name: 'TOC',**

**author: 'Addison-Wesley',**

**cost: 600**

**},**

**{**

**\_id: ObjectId("63495a2090a98db874e2a724"),**

**bid: 6,**

**name: 'AI',**

**author: 'McGraw Hill Education',**

**cost: 800**

**},**

**{**

**\_id: ObjectId("6349ab9390a98db874e2a725"),**

**bid: 7,**

**name: 'CC',**

**author: 'Wiley Publications',**

**cost: 400**

**}**

**]**