***Assignment:10***

[root@localhost ~]# systemctl start mongod

[root@localhost ~]# mongo

MongoDB shell version: 2.4.6

connecting to: test

> use book;

switched to db book

> show collections;

> db.createCollection("library");

{ "ok" : 1 }

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

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

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

> db.library.find();

{ "\_id" : ObjectId("5d958faf073d883a05665608"), "bid" : 1, "name" : "C++" }

{ "\_id" : ObjectId("5d958ff7073d883a05665609"), "bid" : 2, "name" : "SEPM", "author" : "Pressman" }

{ "\_id" : ObjectId("5d959022073d883a0566560a"), "bid" : 3, "name" : "CN", "author" : "Forouzan", "cost" : 700 }

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

{ "\_id" : ObjectId("5d958faf073d883a05665608"), "bid" : 1, "name" : "C++" }

{

"\_id" : ObjectId("5d958ff7073d883a05665609"),

"bid" : 2,

"name" : "SEPM",

"author" : "Pressman"

}

{

"\_id" : ObjectId("5d959022073d883a0566560a"),

"bid" : 3,

"name" : "CN",

"author" : "Forouzan",

"cost" : 700

}

> db.library.update({"cost":700},{$set:{"cost":500}})

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

{ "\_id" : ObjectId("5d958faf073d883a05665608"), "bid" : 1, "name" : "C++" }

{

"\_id" : ObjectId("5d958ff7073d883a05665609"),

"bid" : 2,

"name" : "SEPM",

"author" : "Pressman"

}

{

"\_id" : ObjectId("5d959022073d883a0566560a"),

"bid" : 3,

"name" : "CN",

"author" : "Forouzan",

"cost" : 500

}

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

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

{

"\_id" : ObjectId("5d958ff7073d883a05665609"),

"bid" : 2,

"name" : "SEPM",

"author" : "Pressman"

}

{

"\_id" : ObjectId("5d959022073d883a0566560a"),

"bid" : 3,

"name" : "CN",

"author" : "Forouzan",

"cost" : 500

}

> db.library.count();

2

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

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

{

"\_id" : ObjectId("5d958ff7073d883a05665609"),

"bid" : 2,

"name" : "SEPM",

"author" : "Pressman"

}

{

"\_id" : ObjectId("5d959022073d883a0566560a"),

"bid" : 3,

"name" : "CN",

"author" : "Forouzan",

"cost" : 500

}

{ "\_id" : ObjectId("5d9590e6073d883a0566560b"), "bid" : 1, "name" : "C++" }

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

{ "\_id" : ObjectId("5d9590e6073d883a0566560b"), "bid" : 1, "name" : "C++" }

{ "\_id" : ObjectId("5d958ff7073d883a05665609"), "bid" : 2, "name" : "SEPM", "author" : "Pressman" }

{ "\_id" : ObjectId("5d959022073d883a0566560a"), "bid" : 3, "name" : "CN", "author" : "Forouzan", "cost" : 500 }

> db.library.insert({"bid":4,"name":"SEPM","author":"Pressman","cost":500});

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

{

"\_id" : ObjectId("5d958ff7073d883a05665609"),

"bid" : 2,

"name" : "SEPM",

"author" : "Pressman"

}

{

"\_id" : ObjectId("5d959022073d883a0566560a"),

"bid" : 3,

"name" : "CN",

"author" : "Forouzan",

"cost" : 500

}

{ "\_id" : ObjectId("5d9590e6073d883a0566560b"), "bid" : 1, "name" : "C++" }

{

"\_id" : ObjectId("5d959178073d883a0566560c"),

"bid" : 4,

"name" : "SEPM",

"author" : "Pressman",

"cost" : 500

}

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

{ "\_id" : ObjectId("5d9590e6073d883a0566560b"), "bid" : 1, "name" : "C++" }

{ "\_id" : ObjectId("5d958ff7073d883a05665609"), "bid" : 2, "name" : "SEPM", "author" : "Pressman" }

{ "\_id" : ObjectId("5d959022073d883a0566560a"), "bid" : 3, "name" : "CN", "author" : "Forouzan", "cost" : 500 }

{ "\_id" : ObjectId("5d959178073d883a0566560c"), "bid" : 4, "name" : "SEPM", "author" : "Pressman", "cost" : 500 }

> db.library.find({"cost":500})

{ "\_id" : ObjectId("5d959022073d883a0566560a"), "bid" : 3, "name" : "CN", "author" : "Forouzan", "cost" : 500 }

{ "\_id" : ObjectId("5d959178073d883a0566560c"), "bid" : 4, "name" : "SEPM", "author" : "Pressman", "cost" : 500 }

> db.library.find({$and:[{"name":"SEPM"},{"cost":500}]}).pretty()

{

"\_id" : ObjectId("5d959178073d883a0566560c"),

"bid" : 4,

"name" : "SEPM",

"author" : "Pressman",

"cost" : 500

}

> db.library.insert({"bid":5,"name":"C++","cost":800});

> db.library.insert({"bid":6,"name":"DBMS","cost":900});

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

{

"\_id" : ObjectId("5d958ff7073d883a05665609"),

"bid" : 2,

"name" : "SEPM",

"author" : "Pressman"

}

{

"\_id" : ObjectId("5d959022073d883a0566560a"),

"bid" : 3,

"name" : "CN",

"author" : "Forouzan",

"cost" : 500

}

{ "\_id" : ObjectId("5d9590e6073d883a0566560b"), "bid" : 1, "name" : "C++" }

{

"\_id" : ObjectId("5d959178073d883a0566560c"),

"bid" : 4,

"name" : "SEPM",

"author" : "Pressman",

"cost" : 500

}

{

"\_id" : ObjectId("5d959242073d883a0566560d"),

"bid" : 5,

"name" : "C++",

"cost" : 800

}

{

"\_id" : ObjectId("5d959256073d883a0566560e"),

"bid" : 6,

"name" : "DBMS",

"cost" : 900

}

> db.library.find({$or:[{"cost":800},{"cost":900}]}).pretty()

{

"\_id" : ObjectId("5d959242073d883a0566560d"),

"bid" : 5,

"name" : "C++",

"cost" : 800

}

{

"\_id" : ObjectId("5d959256073d883a0566560e"),

"bid" : 6,

"name" : "DBMS",

"cost" : 900

}

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

{ "\_id" : ObjectId("5d958ff7073d883a05665609"), "bid" : 2, "name" : "SEPM", "author" : "Pressman" }

{ "\_id" : ObjectId("5d9590e6073d883a0566560b"), "bid" : 1, "name" : "C++" }

{ "\_id" : ObjectId("5d959242073d883a0566560d"), "bid" : 5, "name" : "C++", "cost" : 800 }

{ "\_id" : ObjectId("5d959256073d883a0566560e"), "bid" : 6, "name" : "DBMS", "cost" : 900 }

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

{ "\_id" : ObjectId("5d958ff7073d883a05665609"), "bid" : 2, "name" : "SEPM", "author" : "Pressman" }

{ "\_id" : ObjectId("5d9590e6073d883a0566560b"), "bid" : 1, "name" : "C++" }

{ "\_id" : ObjectId("5d959242073d883a0566560d"), "bid" : 5, "name" : "C++", "cost" : 800 }

{ "\_id" : ObjectId("5d959256073d883a0566560e"), "bid" : 6, "name" : "DBMS", "cost" : 900 }

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

{ "\_id" : ObjectId("5d958ff7073d883a05665609"), "bid" : 2, "name" : "SEPM", "author" : "Pressman" }

{ "\_id" : ObjectId("5d959022073d883a0566560a"), "bid" : 3, "name" : "CN", "author" : "Forouzan", "cost" : 500 }

{ "\_id" : ObjectId("5d9590e6073d883a0566560b"), "bid" : 1, "name" : "C++" }

{ "\_id" : ObjectId("5d959178073d883a0566560c"), "bid" : 4, "name" : "SEPM", "author" : "Pressman", "cost" : 500 }

{ "\_id" : ObjectId("5d959242073d883a0566560d"), "bid" : 5, "name" : "C++", "cost" : 800 }

> db.library.save({"bid":16,"name":"JAVA"})

> db.library.find()

{ "\_id" : ObjectId("5d958ff7073d883a05665609"), "bid" : 2, "name" : "SEPM", "author" : "Pressman" }

{ "\_id" : ObjectId("5d959022073d883a0566560a"), "bid" : 3, "name" : "CN", "author" : "Forouzan", "cost" : 500 }

{ "\_id" : ObjectId("5d9590e6073d883a0566560b"), "bid" : 1, "name" : "C++" }

{ "\_id" : ObjectId("5d959178073d883a0566560c"), "bid" : 4, "name" : "SEPM", "author" : "Pressman", "cost" : 500 }

{ "\_id" : ObjectId("5d959242073d883a0566560d"), "bid" : 5, "name" : "C++", "cost" : 800 }

{ "\_id" : ObjectId("5d959256073d883a0566560e"), "bid" : 6, "name" : "DBMS", "cost" : 900 }

{ "\_id" : ObjectId("5d95938a073d883a0566560f"), "bid" : 16, "name" : "JAVA" }

> db.library.save({"\_id" : "5d95938a073d883a0566560f", "bid" : 16, "name" : "JAVA"})

> db.library.find()

{ "\_id" : ObjectId("5d958ff7073d883a05665609"), "bid" : 2, "name" : "SEPM", "author" : "Pressman" }

{ "\_id" : ObjectId("5d959022073d883a0566560a"), "bid" : 3, "name" : "CN", "author" : "Forouzan", "cost" : 500 }

{ "\_id" : ObjectId("5d9590e6073d883a0566560b"), "bid" : 1, "name" : "C++" }

{ "\_id" : ObjectId("5d959178073d883a0566560c"), "bid" : 4, "name" : "SEPM", "author" : "Pressman", "cost" : 500 }

{ "\_id" : ObjectId("5d959242073d883a0566560d"), "bid" : 5, "name" : "C++", "cost" : 800 }

{ "\_id" : ObjectId("5d959256073d883a0566560e"), "bid" : 6, "name" : "DBMS", "cost" : 900 }

{ "\_id" : ObjectId("5d95938a073d883a0566560f"), "bid" : 16, "name" : "JAVA" }

{ "\_id" : "5d95938a073d883a0566560f", "bid" : 16, "name" : "JAVA" }

> db.library.save({"\_id" : "5d95938a073d883a0566560f", "bid" : 75, "name" : "JAVA"})

> db.library.find()

{ "\_id" : ObjectId("5d958ff7073d883a05665609"), "bid" : 2, "name" : "SEPM", "author" : "Pressman" }

{ "\_id" : ObjectId("5d959022073d883a0566560a"), "bid" : 3, "name" : "CN", "author" : "Forouzan", "cost" : 500 }

{ "\_id" : ObjectId("5d9590e6073d883a0566560b"), "bid" : 1, "name" : "C++" }

{ "\_id" : ObjectId("5d959178073d883a0566560c"), "bid" : 4, "name" : "SEPM", "author" : "Pressman", "cost" : 500 }

{ "\_id" : ObjectId("5d959242073d883a0566560d"), "bid" : 5, "name" : "C++", "cost" : 800 }

{ "\_id" : ObjectId("5d959256073d883a0566560e"), "bid" : 6, "name" : "DBMS", "cost" : 900 }

{ "\_id" : ObjectId("5d95938a073d883a0566560f"), "bid" : 16, "name" : "JAVA" }

{ "\_id" : "5d95938a073d883a0566560f", "bid" : 75, "name" : "JAVA" }

>