

NAME - Kishanlal Choudhary  
ROLL NO - 31114  
CLASS - TE 1  
SUBJECT - DBMS  
DATE - 26/10/23  
Assignment No - 09

```
-----START-----  
  
> use 31114_db  
switched to db 31114_db  
  
> show collections  
  
> db.createCollection("bookstore");  
{ "ok" : 1 }  
  
> db.bookstore.insertOne({title:"Book1", price:500, quantity:4, tag:["tag1",  
"tag2"]});  
{  
  "acknowledged" : true,  
  "insertedId" : ObjectId("6539e2df80aa376e6645258a")  
}  
  
> db.bookstore.insertOne({title:"Book2", price:300, quantity:10, tag:["tag1",  
"tag3"]});  
{  
  "acknowledged" : true,  
  "insertedId" : ObjectId("6539e2f780aa376e6645258b")  
}  
  
> db.bookstore.insertOne({title:"Book3", price:100, quantity:15, tag:["tag5"]});  
{  
  "acknowledged" : true,  
  "insertedId" : ObjectId("6539e31280aa376e6645258c")  
}  
  
> db.bookstore.insertMany([ {title:"Book4", price:150, quantity:40, tag:["tag6",  
"tag1", "tag2"]}, {title:"Book5", price:450, quantity:30, tag:["tag7"]}]);  
{  
  "acknowledged" : true,  
  "insertedIds" : [  
    ObjectId("6539e1c580aa376e66452587"),  
    ObjectId("6539e1c580aa376e66452588")  
  ]  
}  
  
> db.bookstore.find();  
{ "_id" : ObjectId("6539e1c580aa376e66452587"), "title" : "Book4", "price" : 150,  
"quantity" : 40, "tag" : [ "tag6", "tag1", "tag2" ] }  
{ "_id" : ObjectId("6539e1c580aa376e66452588"), "title" : "Book5", "price" : 450,  
"quantity" : 30, "tag" : [ "tag7" ] }  
{ "_id" : ObjectId("6539e2df80aa376e6645258a"), "title" : "Book1", "price" : 500,  
"quantity" : 4, "tag" : [ "tag1", "tag2" ] }  
{ "_id" : ObjectId("6539e2f780aa376e6645258b"), "title" : "Book2", "price" : 300,  
"quantity" : 10, "tag" : [ "tag1", "tag3" ] }  
{ "_id" : ObjectId("6539e31280aa376e6645258c"), "title" : "Book3", "price" : 100,  
"quantity" : 15, "tag" : [ "tag5" ] }
```

```

> db.bookstore.find({"price":300});
{ "_id" : ObjectId("6539e2f780aa376e6645258b"), "title" : "Book2", "price" : 300,
  "quantity" : 10, "tag" : [ "tag1", "tag3" ] }

> db.bookstore.find({"tag":{"$in":["tag1"]}});
{ "_id" : ObjectId("6539e1c580aa376e66452587"), "title" : "Book4", "price" : 150,
  "quantity" : 40, "tag" : [ "tag6", "tag1", "tag2" ] }
{ "_id" : ObjectId("6539e2df80aa376e6645258a"), "title" : "Book1", "price" : 500,
  "quantity" : 4, "tag" : [ "tag1", "tag2" ] }
{ "_id" : ObjectId("6539e2f780aa376e6645258b"), "title" : "Book2", "price" : 300,
  "quantity" : 10, "tag" : [ "tag1", "tag3" ] }

> db.bookstore.findOne({"tag":{"$in":["tag1"]}});
{
  "_id" : ObjectId("6539e1c580aa376e66452587"),
  "title" : "Book4",
  "price" : 150,
  "quantity" : 40,
  "tag" : [
    "tag6",
    "tag1",
    "tag2"
  ]
}

> db.bookstore.find({$or:[{"title":"Book1"}, {"price":100}]});
{ "_id" : ObjectId("6539e1c580aa376e66452587"), "title" : "Book4", "price" : 100,
  "quantity" : 35, "tag" : [ "tag1", "tag6" ] }
{ "_id" : ObjectId("6539ea8e80aa376e6645258d"), "title" : "Book3", "price" : 100,
  "quantity" : 15, "tag" : [ "tag5" ] }
{ "_id" : ObjectId("6539eaa580aa376e6645258f"), "title" : "Book1", "price" : 500,
  "quantity" : 4, "tag" : [ "tag1", "tag2" ] }

> db.bookstore.find({$and:[{"title":"Book1"}, {"price":400}]});

> db.bookstore.find({$and:[{"title":"Book1"}, {"price":500}]});
{ "_id" : ObjectId("6539eaa580aa376e6645258f"), "title" : "Book1", "price" : 500,
  "quantity" : 4, "tag" : [ "tag1", "tag2" ] }

> db.bookstore.find({$and:[{"price":100}, {$or:[{"quantity":50}, {"quantity":40}]}]});

> db.bookstore.find({$and:[{"price":100}, {$or:[{"quantity":20}, {"quantity":35}]}]});
{ "_id" : ObjectId("6539e1c580aa376e66452587"), "title" : "Book4", "price" : 100,
  "quantity" : 35, "tag" : [ "tag1", "tag6" ] }

> db.bookstore.find({$and:[{"price":100}, {$or:[{"quantity":15}, {"quantity":35}]}]});
{ "_id" : ObjectId("6539e1c580aa376e66452587"), "title" : "Book4", "price" : 100,
  "quantity" : 35, "tag" : [ "tag1", "tag6" ] }
{ "_id" : ObjectId("6539ea8e80aa376e6645258d"), "title" : "Book3", "price" : 100,
  "quantity" : 15, "tag" : [ "tag5" ] }

> db.bookstore.update({"title":"Book3"}, {$set:{"price":200}});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

> db.bookstore.find({"title":"Book3"});
{ "_id" : ObjectId("6539e31280aa376e6645258c"), "title" : "Book3", "price" : 200,

```

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"quantity" : 15, "tag" : [ "tag5" ] }
```

```
> db.bookstore.update({"tag":{"$in":["tag1"]}}, {$set:{"price":200}}, {multi:true});
WriteResult({ "nMatched" : 3, "nUpserted" : 0, "nModified" : 2 })
```

```
> db.bookstore.find();
{ "_id" : ObjectId("6539e1c580aa376e66452587"), "title" : "Book4", "price" : 200,
  "quantity" : 40, "tag" : [ "tag6", "tag1", "tag2" ] }
{ "_id" : ObjectId("6539e1c580aa376e66452588"), "title" : "Book5", "price" : 450,
  "quantity" : 30, "tag" : [ "tag7" ] }
{ "_id" : ObjectId("6539e2df80aa376e6645258a"), "title" : "Book1", "price" : 200,
  "quantity" : 4, "tag" : [ "tag1", "tag2" ] }
{ "_id" : ObjectId("6539e2f780aa376e6645258b"), "title" : "Book2", "price" : 200,
  "quantity" : 10, "tag" : [ "tag1", "tag3" ] }
{ "_id" : ObjectId("6539e31280aa376e6645258c"), "title" : "Book3", "price" : 200,
  "quantity" : 15, "tag" : [ "tag5" ] }
```

```
> db.bookstore.save({"_id":ObjectId("6539e1c580aa376e66452587"), "title":"Book4",
  "price":100, "quantity":35, "tag":["tag1", "tag6"]});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

```
> db.bookstore.find();
{ "_id" : ObjectId("6539e1c580aa376e66452587"), "title" : "Book4", "price" : 100,
  "quantity" : 35, "tag" : [ "tag1", "tag6" ] }
{ "_id" : ObjectId("6539e1c580aa376e66452588"), "title" : "Book5", "price" : 450,
  "quantity" : 30, "tag" : [ "tag7" ] }
{ "_id" : ObjectId("6539e2df80aa376e6645258a"), "title" : "Book1", "price" : 200,
  "quantity" : 4, "tag" : [ "tag1", "tag2" ] }
{ "_id" : ObjectId("6539e2f780aa376e6645258b"), "title" : "Book2", "price" : 200,
  "quantity" : 10, "tag" : [ "tag1", "tag3" ] }
{ "_id" : ObjectId("6539e31280aa376e6645258c"), "title" : "Book3", "price" : 200,
  "quantity" : 15, "tag" : [ "tag5" ] }
```

```
{ "_id" : ObjectId("6539e31280aa376e6645258c"), "title" : "Book3", "price" : 200,
  "quantity" : 15, "tag" : [ "tag5" ] }
```

```
> db.bookstore.remove({"title":"Book2"});
```

```
WriteResult({ "nRemoved" : 1 })
```

```
> db.bookstore.find();
{ "_id" : ObjectId("6539e1c580aa376e66452587"), "title" : "Book4", "price" : 100,
  "quantity" : 35, "tag" : [ "tag1", "tag6" ] }
{ "_id" : ObjectId("6539e1c580aa376e66452588"), "title" : "Book5", "price" : 450,
  "quantity" : 30, "tag" : [ "tag7" ] }
{ "_id" : ObjectId("6539e2df80aa376e6645258a"), "title" : "Book1", "price" : 200,
  "quantity" : 4, "tag" : [ "tag1", "tag2" ] }
{ "_id" : ObjectId("6539e31280aa376e6645258c"), "title" : "Book3", "price" : 200,
  "quantity" : 15, "tag" : [ "tag5" ] }
```

```
> db.bookstore.remove({"price":200});
WriteResult({ "nRemoved" : 2 })
```

```
> db.bookstore.find();
{ "_id" : ObjectId("6539e1c580aa376e66452587"), "title" : "Book4", "price" : 100,
  "quantity" : 35, "tag" : [ "tag1", "tag6" ] }
{ "_id" : ObjectId("6539e1c580aa376e66452588"), "title" : "Book5", "price" : 450,
  "quantity" : 30, "tag" : [ "tag7" ] }
```

-----END-----