

ASSIGNMENT 1 : MONGODB CRUD OPERATIONS

```
> use assi1crud
```

```
switched to db assi1crud
```

```
> db.createCollection("Library");
```

```
{ "ok" : 1 }
```

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

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

```
> db.library.insert({"bid":2,"bname":"DBMS"});
```

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

```
> db.library.insert({"bid":3,"bname":"python"});
```

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

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

```
{ "_id" : ObjectId("619138b516cdb436d541ae5"), "bid" : 1, "bname" : "C++" }
```

```
{ "_id" : ObjectId("619138ca16cdb436d541ae6"), "bid" : 2, "bname" : "DBMS" }
```

```
{ "_id" : ObjectId("619138e416cdb436d541ae7"), "bid" : 3, "bname" : "python" }
```

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

```
function() {
```

```
  this._prettyShell = true;
```

```
  return this;
```

```
}
```

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

```
{ "_id" : ObjectId("619138b516cdb436d541ae5"), "bid" : 1, "bname" : "C++" }
```

```
{
```

```
  "_id" : ObjectId("619138ca16cdb436d541ae6"),
```

```
  "bid" : 2,
```

```
  "bname" : "DBMS"
```

```
}
```

```
{
```

```
  "_id" : ObjectId("619138e416cdb436d541ae7"),
```

```
  "bid" : 3,
```

```
  "bname" : "python"
```

```

}
> db.library.update({"bname":"python"},{$set:{"bname":"PYTHON 3.7"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.library.find().pretty();
{ "_id" : ObjectId("619138b516cdb436d541ae5"), "bid" : 1, "bname" : "C++" }
{
  "_id" : ObjectId("619138ca16cdb436d541ae6"),
  "bid" : 2,
  "bname" : "DBMS"
}
{
  "_id" : ObjectId("619138e416cdb436d541ae7"),
  "bid" : 3,
  "bname" : "PYTHON 3.7"
}
> db.library.remove({"bid":1});
WriteResult({ "nRemoved" : 1 })
> db.library.find();
{ "_id" : ObjectId("619138ca16cdb436d541ae6"), "bid" : 2, "bname" : "DBMS" }
{ "_id" : ObjectId("619138e416cdb436d541ae7"), "bid" : 3, "bname" : "PYTHON 3.7" }
> db.library.find({"bname":"DBMS"});
{ "_id" : ObjectId("619138ca16cdb436d541ae6"), "bid" : 2, "bname" : "DBMS" }
>
>
> db.library.insert({"bid":4,"bname":"DBMS"});
WriteResult({ "nInserted" : 1 })
> db.library.remove({"bid":4});
WriteResult({ "nRemoved" : 1 })
> db.library.insert({"bid":4,"bname":"DBMS","desc":"book2"});
WriteResult({ "nInserted" : 1 })
> db.library.find({"bname":"DBMS"});

```

```

{ "_id" : ObjectId("619138ca16cdb436d541ae6"), "bid" : 2, "bname" : "DBMS" }
{ "_id" : ObjectId("61913a7716cdb436d541ae9"), "bid" : 4, "bname" : "DBMS", "desc" : "book2" }
>
>
> db.library.find({$and[{"bname":"DBMS"}, {"desc":"book2"}]});
uncaught exception: SyntaxError: missing : after property id :
@(shell):1:21
> db.library.find({$and[{"bname":"DBMS"}, {"desc":"book2"}]});
{ "_id" : ObjectId("61913a7716cdb436d541ae9"), "bid" : 4, "bname" : "DBMS", "desc" : "book2" }
> db.library.find({$or[{"bname":"DBMS"}, {"desc":"book2"}]});
{ "_id" : ObjectId("619138ca16cdb436d541ae6"), "bid" : 2, "bname" : "DBMS" }
{ "_id" : ObjectId("61913a7716cdb436d541ae9"), "bid" : 4, "bname" : "DBMS", "desc" : "book2" }
>
>
>
> db.library.insert({"bid":7,"bname":"mystory 3","cost":50});
WriteResult({ "nInserted" : 1 })
> db.library.insert({"bid":6,"bname":"mystory 2","cost":800});
WriteResult({ "nInserted" : 1 })
> db.library.insert({"bid":5,"bname":"mystory","cost":500});
WriteResult({ "nInserted" : 1 })
> db.library.find({"cost":{$gte:100}});
{ "_id" : ObjectId("61913c3816cdb436d541aee"), "bid" : 6, "bname" : "mystory 2", "cost" : 800 }
{ "_id" : ObjectId("61913c4016cdb436d541aef"), "bid" : 5, "bname" : "mystory", "cost" : 500 }
> db.library.find({"cost":{$ne:500}});
{ "_id" : ObjectId("619138ca16cdb436d541ae6"), "bid" : 2, "bname" : "DBMS" }
{ "_id" : ObjectId("619138e416cdb436d541ae7"), "bid" : 3, "bname" : "PYTHON 3.7" }
{ "_id" : ObjectId("61913a7716cdb436d541ae9"), "bid" : 4, "bname" : "DBMS", "desc" : "book2" }
{ "_id" : ObjectId("61913c3016cdb436d541aed"), "bid" : 7, "bname" : "mystory 3", "cost" : 50 }
{ "_id" : ObjectId("61913c3816cdb436d541aee"), "bid" : 6, "bname" : "mystory 2", "cost" : 800 }
>

```

```

>
>
> db.library.find({"cost":{"$in":[100,200,500,800]}});
{ "_id" : ObjectId("61913c3816cdb436d541aee"), "bid" : 6, "bname" : "mystory 2", "cost" : 800 }
{ "_id" : ObjectId("61913c4016cdb436d541aef"), "bid" : 5, "bname" : "mystory", "cost" : 500 }
>
>
> db.library.find({"cost":{"$nin":[100,200,500,800]}});
{ "_id" : ObjectId("619138ca16cdb436d541ae6"), "bid" : 2, "bname" : "DBMS" }
{ "_id" : ObjectId("619138e416cdb436d541ae7"), "bid" : 3, "bname" : "PYTHON 3.7" }
{ "_id" : ObjectId("61913a7716cdb436d541ae9"), "bid" : 4, "bname" : "DBMS", "desc" : "book2" }
{ "_id" : ObjectId("61913c3016cdb436d541aed"), "bid" : 7, "bname" : "mystory 3", "cost" : 50 }
>
>
>
>
db.library.save({"_id":ObjectId("123456789abcdef123456789"),"bid":10,"bname":"objectid","cost":
100});
WriteResult({
  "nMatched" : 0,
  "nUpserted" : 1,
  "nModified" : 0,
  "_id" : ObjectId("123456789abcdef123456789")
})
>
>
>
> db.library.find();
{ "_id" : ObjectId("619138ca16cdb436d541ae6"), "bid" : 2, "bname" : "DBMS" }
{ "_id" : ObjectId("619138e416cdb436d541ae7"), "bid" : 3, "bname" : "PYTHON 3.7" }
{ "_id" : ObjectId("61913a7716cdb436d541ae9"), "bid" : 4, "bname" : "DBMS", "desc" : "book2" }
{ "_id" : ObjectId("61913c3016cdb436d541aed"), "bid" : 7, "bname" : "mystory 3", "cost" : 50 }

```

```

{ "_id" : ObjectId("61913c3816cdb436d541aee"), "bid" : 6, "bname" : "mystory 2", "cost" : 800 }
{ "_id" : ObjectId("61913c4016cdb436d541aef"), "bid" : 5, "bname" : "mystory", "cost" : 500 }
{ "_id" : ObjectId("123456789abcdef123456789"), "bid" : 10, "bname" : "objectid", "cost" : 100 }
>
>
>
>
db.library.save({"_id":ObjectId("61913c4016cdb436d541aef"),"bid":10,"bname":"objectid","cost":100});

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
>
> db.library.find();
{ "_id" : ObjectId("619138ca16cdb436d541ae6"), "bid" : 2, "bname" : "DBMS" }
{ "_id" : ObjectId("619138e416cdb436d541ae7"), "bid" : 3, "bname" : "PYTHON 3.7" }
{ "_id" : ObjectId("61913a7716cdb436d541ae9"), "bid" : 4, "bname" : "DBMS", "desc" : "book2" }
{ "_id" : ObjectId("61913c3016cdb436d541aed"), "bid" : 7, "bname" : "mystory 3", "cost" : 50 }
{ "_id" : ObjectId("61913c3816cdb436d541aee"), "bid" : 6, "bname" : "mystory 2", "cost" : 800 }
{ "_id" : ObjectId("61913c4016cdb436d541aef"), "bid" : 10, "bname" : "objectid", "cost" : 100 }
{ "_id" : ObjectId("123456789abcdef123456789"), "bid" : 10, "bname" : "objectid", "cost" : 100 }
>

```