

Shubha D Madival

IBM17CS100

Inserting into collections.

```
> use Company;
switched to db Company
> db;
Company
> db.createCollection("Employee");
{ "ok" : 1 }
> db.createCollection("Department");
{ "ok" : 1 }
> db.Employee.insert({id:1, Name:"ABC", Age:35, deptId:1001});
WriteResult({ "nInserted" : 1 })
> db.Employee.insert({id:2, Name:"LMN", Age:30, deptId:1003},{ $set:{Exp:2}}, {upsert:true});
WriteResult({ "nInserted" : 1 })
> db.Employee.update({id:3, Name:"Arya", Age:28, deptId:1006},{ $set:{Exp:20}}, {upsert:true});
WriteResult({
  "nMatched" : 0,
  "nUpserted" : 1,
  "nModified" : 0,
  "_id" : ObjectId("5f7aebae03dc11f1d934ba47")
})
> db.Employee.update({id:4, Name:"Aisha", Age:28, deptId:1006},{ $set:{Exp:10}}, {upsert:false});
WriteResult({ "nMatched" : 0, "nUpserted" : 0, "nModified" : 0 })
> db.Employee.save({id:4, Name:"XYZ", Age:48, deptId:1002});
WriteResult({ "nInserted" : 1 })
> db.Employee.insert({id:5, Name:"Aiyan", Age:36, deptId:1005});
WriteResult({ "nInserted" : 1 })
> db.Department.insert({id:1, Name:"CSE", deptId:1001});
WriteResult({ "nInserted" : 1 })
> db.Department.insert({id:2, Name:"ISE", deptId:1003});
WriteResult({ "nInserted" : 1 })
> db.save({id:3, Name:"ECE", deptId:1006});
2020-10-05T15:34:24.906+0530 E QUERY [js] uncaught exception: TypeError: db.save is not a function :
@(shell):1:1
> db.Department.save({id:3, Name:"ECE", deptId:1006});
WriteResult({ "nInserted" : 1 })
> db.Department.update({id:4, Name:"ME", deptId:1005}, { $set:{FloorNo:4}}, {upsert:true});
WriteResult({
  "nMatched" : 0,
  "nUpserted" : 1,
  "nModified" : 0,
  "_id" : ObjectId("5f7af01f03dc11f1d934ba65")
})
> db.Department.save({id:5, Name:"IME", deptId:1002});
WriteResult({ "nInserted" : 1 })
```

Displaying the collections:

```
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Employee.find().pretty();
{
  "_id" : ObjectId("5f7aeadd74e90107be9f1630"),
  "id" : 1,
  "Name" : "ABC",
  "Age" : 35,
  "deptId" : 1001,
  "Exp" : 5
}
{
  "_id" : ObjectId("5f7aeb3a74e90107be9f1631"),
  "id" : 2,
  "Name" : "LMN",
  "Age" : 30,
  "deptId" : 1003
}
{
  "_id" : ObjectId("5f7aebae03dc11f1d934ba47"),
  "Age" : 28,
  "Name" : "Arya",
  "deptId" : 1006,
  "id" : 3
}
{
  "_id" : ObjectId("5f7aec2f74e90107be9f1632"),
  "id" : 4,
  "Name" : "XYZ",
  "Age" : 48,
  "deptId" : 1002
}
{
  "_id" : ObjectId("5f7aec6574e90107be9f1633"),
  "id" : 5,
  "Name" : "Aiyan",
  "Age" : 36,
  "deptId" : 1005
}
```

```

}
> db.Department.find().pretty();
{
  "_id" : ObjectId("5f7aef6e74e90107be9f1634"),
  "id" : 1,
  "Name" : "CSE",
  "deptId" : 1001
}
{
  "_id" : ObjectId("5f7aef8974e90107be9f1635"),
  "id" : 2,
  "Name" : "ISE",
  "deptId" : 1003
}
{
  "_id" : ObjectId("5f7aefba74e90107be9f1636"),
  "id" : 3,
  "Name" : "ECE",
  "deptId" : 1006
}
{
  "_id" : ObjectId("5f7af01f03dc11f1d934ba65"),
  "Name" : "ME",
  "deptId" : 1005,
  "id" : 4,
  "FloorNo" : 4
}
{
  "_id" : ObjectId("5f7af03c74e90107be9f1637"),
  "id" : 5,
  "Name" : "IME",
  "deptId" : 1002
}

```

Queries:

```

> db.Employee.update({Name:"ABC"},{$set:{Exp:5}},{multi:true});
2020-10-05T15:38:01.672+0530 E QUERY [js] uncaught exception: SyntaxError: missing ) after argument list :
@ (shell):1:59
> db.Employee.update({Name:"ABC"},{$set:{Exp:5}},{multi:true});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Employee.update({Name:"Arya"},{$unset:{Exp:""}});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

```

```

> db.Employee.find({deptId:{$gt :1001,$lt :1005}},{Name:1, deptId:1}).pretty();
{
  "_id" : ObjectId("5f7aeb3a74e90107be9f1631"),
  "Name" : "LMN",
  "deptId" : 1003
}
{
  "_id" : ObjectId("5f7aec2f74e90107be9f1632"),
  "Name" : "XYZ",
  "deptId" : 1002
}

```

```

> db.Employee.find({Name:/^A/}).pretty();
{
  "_id" : ObjectId("5f7aeadd74e90107be9f1630"),
  "id" : 1,
  "Name" : "ABC",
  "Age" : 35,
  "deptId" : 1001,
  "Exp" : 5
}
{
  "_id" : ObjectId("5f7aebae03dc11f1d934ba47"),
  "Age" : 28,
  "Name" : "Arya",
  "deptId" : 1006,
  "id" : 3
}
{
  "_id" : ObjectId("5f7aec6574e90107be9f1633"),
  "id" : 5,
  "Name" : "Aiyan",
  "Age" : 36,
  "deptId" : 1005
}

```

```

> db.Employee.find({Age:{$gt:30}}).pretty();
{
  "_id" : ObjectId("5f7aeadd74e90107be9f1630"),
  "id" : 1,
  "Name" : "ABC",
  "Age" : 35,
  "deptId" : 1001,
  "Exp" : 5
}
{
  "_id" : ObjectId("5f7aec2f74e90107be9f1632"),
  "id" : 4,
  "Name" : "XYZ",
  "Age" : 48,
  "deptId" : 1002
}
{
  "_id" : ObjectId("5f7aec6574e90107be9f1633"),
  "id" : 5,
  "Name" : "Aiyan",
  "Age" : 36,
  "deptId" : 1005
}

```