**NSDB – ASSIGNMENT (MONGO-DB)**

**(GARIMA 21CSU194)**

test> use emp

switched to db emp

emp> db.employees.insertMany([

... {

... emono: 111,

... ename: "Deepali Vaidya",

... sal: 40000.00,

... dept: { deptno: 12, dname: "Hr", dloc: "Mumbai" },

... Desg: "Analyst",

... Bonus: 7000.00,

... mgr: { name: "Satish", num: 111 },

... project: [

... { name: "Project-1", Hrs: 4 },

... { name: "Project-2", Hrs: 4 }

... ]

... },

... {

... emono: 112,

... ename: "Garima Jaiswal",

... sal: 104000.00,

... dept: { deptno: 13, dname: "CS", dloc: "Mumbai" },

... Desg: "Coder",

... Bonus: 8000.00,

... mgr: { name: "Rohan", num: 112 },

... project: [

... { name: "Project-1", Hrs: 4 },

... { name: "Project-2", Hrs: 4 }

... ]

... },

... {

... emono: 113,

... ename: "gunu",

... sal: 44000.00,

... Bonus: 7000.00,

... dept: { deptno: 13, dname: "Hr", dloc: "Mumbai" },

... Desg: "Analyst",

... mgr: { name: "Satish", num: 111 },

... project: [

... { name: "Project-1", Hrs: 4 },

... { name: "Project-2", Hrs: 4 }

... ]

... },

... {

... emono: 114,

... ename: "Gaurav Rag",

... sal: 74000.00,

... Bonus: 8000.00,

... dept: { deptno: 13, dname: "CS", dloc: "Mumbai" },

... Desg: "Coder",

... mgr: { name: "Rohan", num: 111 },

... project: [

... { name: "Project-1", Hrs: 4 },

... { name: "Project-2", Hrs: 4 }

... ]

... },

... {

... emono: 113,

... ename: "Aryan",

... sal: 94000.00,

... Bonus: 8000.00,

... dept: { deptno: 13, dname: "Hr", dloc: "Mumbai" },

... Desg: "Analyst",

... mgr: { name: "Satish", num: 111 },

... project: [

... { name: "Project-1", Hrs: 4 },

... { name: "Project-2", Hrs: 4 }

... ]

... },

... ])

{

acknowledged: true,

insertedIds: {

'0': ObjectId("64e5f3a2cfb38e1ac7125650"),

'1': ObjectId("64e5f3a2cfb38e1ac7125651"),

'2': ObjectId("64e5f3a2cfb38e1ac7125652"),

'3': ObjectId("64e5f3a2cfb38e1ac7125653"),

'4': ObjectId("64e5f3a2cfb38e1ac7125654")

}

}

**1.**

db.Employee.updateMany

( { "Desg": "CLERK" },

{ $set: { "Desg": "AO" } } );

**2.**

db.Employee.updateMany(

{ "Desg": "Analyst", "project.name": "Project-1" },

{ $set: { "project.$.Hrs": 5 } } );

**3**.

db.Employee.updateMany({ "ename": /^Deep/ }, // Find employees whose names start with "Deep"

... {

... $push: {

... "project": { $each: [{ "name": "project-3", "Hrs": 2 }, { "name": "project-4", "Hrs": 2 }] }

... }

... }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**4.**

emp> db.Employee.updateMany(

... { "ename": /^Deep/ }, // Find employees whose names start with "Deep"

... {

... $push: {

... "project": { $each: [{ "name": "project-3", "Hrs": 2 }, { "name": "project-4", "Hrs": 2 }] }

... }

... }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**5.**

emp> db.Employee.updateMany(

... { "sal": { $gt: 50000 } },

... { $inc: { "bonus": 2000 } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

emp>

**6**.

emp> db.Employee.updateMany(

... { "sal": { $lt: 50000, $gt: 30000 } },

... { $inc: { "bonus": 1500 } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

emp>

**7.**

emp> db.Employee.updateMany(

... { "sal": { $lte: 30000 } },

... { $inc: { "bonus": 1000 } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**8.**

emp> db.Employee.updateMany(

... { "mgr.name": "Satish" },

... {

... $set: {

... "mgr.name": "Tushar",

... "mgr.num": 3333

... }

... }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**9.**

emp> db.Employee.updateMany(

... { "dept.dname": "purchase department" },

... { $inc: { "sal": 15000 } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**10.**

emp> db.Employee.updateMany(

... { "project.name": "project-2" },

... { $inc: { "project.$.Hrs": -2 } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**11.**

emp> db.Employee.updateMany(

... { "project.name": "project-2", "project.Hrs": 4 },

... { $pull: { "project": { "name": "project-2" } } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**12.**

emp> db.Employee.updateMany(

... { "sal": { $lt: 10000 } },

... { $set: { "sal": 10000 } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**13.**

emp> db.Employee.updateMany(

... {

... $or: [

... { "bonus": { $lt: 2000 } },

... { "sal": { $lt: 20000 } },

... { "dept.dname": "sales department" }

... ]

... },

... { $inc: { "bonus": 500 } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**14.**

emp> db.Employee.updateMany(

... {

... $or: [

... { "Desg": "Analyst" },

... { "sal": { $in: [30000, 33000, 35000] } }

... ]

... },

... {

... $push: {

... "project": {

... $each: [

... { "name": "New Project 1", "Hrs": 0 },

... { "name": "New Project 2", "Hrs": 0 }

... ],

... $position: 2

... }

... }

... }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**15.**

emp> db.Employee.updateMany(

... {

... "dept.dname": "HR",

... "dept.dloc": "Mumbai"

... },

... { $pop: { "project": 1 } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**16.**

emp> db.Employee.updateMany(

... { "project.name": "Project-1", "project.Hrs": 4 },

... { $set: { "Desg": "senior programmer" } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**17.**

emp> db.Employee.updateMany(

... { "mgr.name": { $in: ["Rajan", "Revati"] } },

... { $set: { "hobbies": ["Hobby1", "Hobby2"] } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**18.**

emp> db.Employee.updateMany(

... {

... $or: [

... { "project.name": "project-4", "project.Hrs": 3 },

... { "project.name": "project-3", "project.Hrs": 4 }

... ]

... },

... { $set: { "skillset": ["Skill1", "Skill2"] } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**19.**

emp> db.Employee.updateMany(

... {

... "ename": { $regex: "^[Rp].\*[js]$" }

... },

... { $push: { "hobbies": { $each: ["blogging"], $position: 2 } } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**20.**

emp> db.Employee.updateMany(

... { "project.name": { $in: ["project-1", "project-2", "project-3"] } },

... { $inc: { "sal": 10000 } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

emp>

**21.**

emp> db.Employee.updateMany(

... { "dept.dloc": "Mumbai" },

... { $inc: { "bonus": -1000, "sal": 1000 } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

emp> db.Employee.updateMany(

... { "project.name": "project-1" },

... { $pull: { "project": { "name": "project-1" } } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**22.**

db.Employee.replaceOne(

... { "ename": "Deepak" },

... {

... "emono": 123,

... "ename": "New Employee",

... "sal": 50000,

... "dept": {

... "deptno": 10,

... "dname": "IT",

... "dloc": "Bangalore"

... },

... "Desg": "Developer",

... "mgr": {

... "name": "Rajan",

... "num": 456

... },

... "project": [

... {

... "name": "Project-5",

... "Hrs": 6

... }

... ]

... }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**23.**

db.Employee.updateMany(

... { "skillset": "python" },

... { $set: { "skillset.$": "python 3.8" } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**24.**

emp> db.Employee.updateMany(

... { "dept.dloc": "Pune" },

... { $push: { "skillset": { $each: ["MongoDB", "Perl"] } } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

**25.**

emp> db.Employee.updateMany(

... { "project.name": { $in: ["project-1", "project-2"] } },

... { $pop: { "hobbies": -1 } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

emp> db.Employee.updateMany(

... { "project.1.Hrs": 4 },

... { $pop: { "hobbies": 1 } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

emp> db.Employee.updateMany(

... { "skillset": { $in: ["Perl", "python"] } },

... {

... $push: {

... "project": { $each: [{ "name": "New Project 1", "Hrs": 0 }, { "name": "New Project 2", "Hrs": 0 }] }

... }

... }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

emp> db.Employee.updateMany(

... { "project.name": "project-1", "project.Hrs": { $lt: 6 } },

... { $set: { "project.$.Hrs": 6 } }

... );

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}