**Practical 1(B)**

use cricket

switched to db cricket

db.createCollection("players")

db.createCollection("teams")

db.createCollection("matches")

{ ok: 1 }

db.players.insertMany([

{

player\_id: 1,

name: "Virat Kohli",

role: "Batsman",

team: "India",

batting\_style: "Right-hand bat",

bowling\_style: "Right-arm medium",

matchplayed: 275,

runs: 13000,

strikerate: 93.5,

wicket: 4

},

{

player\_id: 2,

name: "Rohit Sharma",

role: "Batsman",

team: "India",

batting\_style: "Right-hand bat",

bowling\_style: "Off spin",

matchplayed: 250,

runs: 10000,

strikerate: 90.2,

wicket: 8

},

{

player\_id: 3,

name: "Jasprit Bumrah",

role: "Bowler",

team: "India",

batting\_style: "Right-hand bat",

bowling\_style: "Right-arm fast",

matchplayed: 120,

runs: 300,

strikerate: 65.4,

wicket: 180

}

])

{

acknowledged: true,

insertedIds: {

'0': ObjectId('68e554168fc4c6dd3f2b8266'),

'1': ObjectId('68e554168fc4c6dd3f2b8267'),

'2': ObjectId('68e554168fc4c6dd3f2b8268')

}

}

db.players.find().pretty()

db.players.find({}, { name: 1, runs: 1, \_id: 0 })

{

name: 'Virat Kohli',

runs: 13000

}

{

name: 'Rohit Sharma',

runs: 10000

}

{

name: 'Jasprit Bumrah',

runs: 300

}

db.players.updateOne(

{ name: "Virat Kohli" },

{ $inc: { runs: 75 } }

)

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

db.players.deleteOne({ wicket: { $lt: 5 } })

{

acknowledged: true,

deletedCount: 1

}

db.players.find({

$and: [

{ role: "Batsman" },

{ strikerate: { $gt: 80 } }

]

})

db.players.find({

$or: [

{ team: "India" },

{ wicket: { $gt: 100 } }

]

})

{

\_id: ObjectId('68e554168fc4c6dd3f2b8267'),

player\_id: 2,

name: 'Rohit Sharma',

role: 'Batsman',

team: 'India',

batting\_style: 'Right-hand bat',

bowling\_style: 'Off spin',

matchplayed: 250,

runs: 10000,

strikerate: 90.2,

wicket: 8

}

{

\_id: ObjectId('68e554168fc4c6dd3f2b8268'),

player\_id: 3,

name: 'Jasprit Bumrah',

role: 'Bowler',

team: 'India',

batting\_style: 'Right-hand bat',

bowling\_style: 'Right-arm fast',

matchplayed: 120,

runs: 300,

strikerate: 65.4,

wicket: 180

}

db.players.find({ strikerate: { $gt: 80 } })

{

\_id: ObjectId('68e554168fc4c6dd3f2b8267'),

player\_id: 2,

name: 'Rohit Sharma',

role: 'Batsman',

team: 'India',

batting\_style: 'Right-hand bat',

bowling\_style: 'Off spin',

matchplayed: 250,

runs: 10000,

strikerate: 90.2,

wicket: 8

}

db.players.find({ wicket: { $gt: 100 } })

{

\_id: ObjectId('68e554168fc4c6dd3f2b8268'),

player\_id: 3,

name: 'Jasprit Bumrah',

role: 'Bowler',

team: 'India',

batting\_style: 'Right-hand bat',

bowling\_style: 'Right-arm fast',

matchplayed: 120,

runs: 300,

strikerate: 65.4,

wicket: 180

}

db.players.find({ matchplayed: { $gte: 200 } })

{

\_id: ObjectId('68e554168fc4c6dd3f2b8267'),

player\_id: 2,

name: 'Rohit Sharma',

role: 'Batsman',

team: 'India',

batting\_style: 'Right-hand bat',

bowling\_style: 'Off spin',

matchplayed: 250,

runs: 10000,

strikerate: 90.2,

wicket: 8

}

db.players.find({ team: { $in: ["India", "Australia"] } })

{

\_id: ObjectId('68e554168fc4c6dd3f2b8267'),

player\_id: 2,

name: 'Rohit Sharma',

role: 'Batsman',

team: 'India',

batting\_style: 'Right-hand bat',

bowling\_style: 'Off spin',

matchplayed: 250,

runs: 10000,

strikerate: 90.2,

wicket: 8

}

{

\_id: ObjectId('68e554168fc4c6dd3f2b8268'),

player\_id: 3,

name: 'Jasprit Bumrah',

role: 'Bowler',

team: 'India',

batting\_style: 'Right-hand bat',

bowling\_style: 'Right-arm fast',

matchplayed: 120,

runs: 300,

strikerate: 65.4,

wicket: 180

}

db.players.find({ role: { $ne: "Bowler" } })

{

\_id: ObjectId('68e554168fc4c6dd3f2b8267'),

player\_id: 2,

name: 'Rohit Sharma',

role: 'Batsman',

team: 'India',

batting\_style: 'Right-hand bat',

bowling\_style: 'Off spin',

matchplayed: 250,

runs: 10000,

strikerate: 90.2,

wicket: 8

}

db.players.find({

$and: [

{ role: "Batsman" },

{ strikerate: { $gt: 80 } }

]

})

db.players.find({

$or: [

{ team: "India" },

{ wicket: { $gt: 100 } }

]

})

{

\_id: ObjectId('68e554168fc4c6dd3f2b8267'),

player\_id: 2,

name: 'Rohit Sharma',

role: 'Batsman',

team: 'India',

batting\_style: 'Right-hand bat',

bowling\_style: 'Off spin',

matchplayed: 250,

runs: 10000,

strikerate: 90.2,

wicket: 8

}

{

\_id: ObjectId('68e554168fc4c6dd3f2b8268'),

player\_id: 3,

name: 'Jasprit Bumrah',

role: 'Bowler',

team: 'India',

batting\_style: 'Right-hand bat',

bowling\_style: 'Right-arm fast',

matchplayed: 120,

runs: 300,

strikerate: 65.4,

wicket: 180

}

let playerName = "Rohit Sharma";

let addedRuns = 50;

db.players.find({ name: playerName });

db.players.updateOne(

{ name: playerName },

{ $inc: { runs: addedRuns } }

);

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

show collections

matches

players

teams

db.players.find().pretty()

{

\_id: ObjectId('68e554168fc4c6dd3f2b8267'),

player\_id: 2,

name: 'Rohit Sharma',

role: 'Batsman',

team: 'India',

batting\_style: 'Right-hand bat',

bowling\_style: 'Off spin',

matchplayed: 250,

runs: 10050,

strikerate: 90.2,

wicket: 8

}

{

\_id: ObjectId('68e554168fc4c6dd3f2b8268'),

player\_id: 3,

name: 'Jasprit Bumrah',

role: 'Bowler',

team: 'India',

batting\_style: 'Right-hand bat',

bowling\_style: 'Right-arm fast',

matchplayed: 120,

runs: 300,

strikerate: 65.4,

wicket: 180

}