1. **To search the name as "Bala" and Course as "B.E ECE" , if the match is found update his address field otherwise add a new document consist of name bala, course B.E ECE and given address using upsert method.**

product> db.product\_details.updateOne({product\_name:"pixel"},{$set:{name:"BALA",course:"BE CSE",address:"coimbatore"}},{$upsert:true})

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

product> db.product\_details.find().pretty()

[

{

\_id: ObjectId("64417303a4858f49b444ae35"),

product\_id: 101,

product\_name: 'iphone\_11',

price: 65000,

no\_quantity: 2,

company: {

name: 'apple',

purchasedate: ISODate("2023-06-05T18:30:00.000Z")

}

},

{

\_id: ObjectId("6441738aa4858f49b444ae36"),

product\_id: 102,

product\_name: 'iphone\_11',

price: 68000,

no\_quantity: 3,

company: {

name: 'apple',

purchasedate: ISODate("2023-04-22T18:30:00.000Z")

}

},

{

\_id: ObjectId("644173c6a4858f49b444ae37"),

product\_id: 103

product\_name: 'iphone\_11',

price: 71000,

no\_quantity: 4,

company: {

name: 'apple',

purchasedate: ISODate("2023-02-25T18:30:00.000Z")

}

},

{

\_id: ObjectId("644173eaa4858f49b444ae38"),

product\_id: 104,

product\_name: 'iphone\_11',

price: 80000,

no\_quantity: 5,

company: {

name: 'apple',

purchasedate: ISODate("2023-02-26T18:30:00.000Z")

}

},

{

\_id: ObjectId("6441740da4858f49b444ae39"),

product\_id: 105,

product\_name: 'iphone\_11',

price: 95000,

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

}

},

{

\_id: ObjectId("64417475a4858f49b444ae3a"),

product\_id: 106,

product\_name: 'redmi\_note\_11',

price: 20000,

no\_quantity: 2,

company: {

name: 'redmi',

purchasedate: ISODate("2023-10-31T18:30:00.000Z")

}

},

{

\_id: ObjectId("644174dba4858f49b444ae3b"),

product\_id: 107,

product\_name: 'realme\_6pro',

price: 14000,

no\_quantity: 2,

company: {

name: 'realme',

purchasedate: ISODate("2023-12-09T18:30:00.000Z")

}

},

{

\_id: ObjectId("6441763da4858f49b444ae3c"),

product\_id: 108,

product\_name: 'oneplus\_nord',

price: 25000,

no\_quantity: 3,

company: {

name: 'oneplus',

purchasedate: ISODate("2022-12-31T18:30:00.000Z")

}

},

{

\_id: ObjectId("64417691a4858f49b444ae3d"),

product\_id: 109,

product\_name: 'oppo\_f9',

price: 15000,

no\_quantity: 2,

company: { name: 'oppo', purchasedate: ISODate("2023-03-06T18:30:00.000Z") }

},

{

\_id: ObjectId("644176dea4858f49b444ae3e"),

product\_id: 110,

product\_name: 'googlephone\_g1',

price: 35000,

no\_quantity: 2,

company: {

name: 'google',

purchasedate: ISODate("2023-06-09T18:30:00.000Z")

}

},

{

\_id: ObjectId("6441773da4858f49b444ae3f"),

product\_id: 111,

product\_name: 'pixel',

price: 20000,

no\_quantity: 1,

company: {

name: 'pixelgoogle',

purchasedate: ISODate("2023-04-22T18:30:00.000Z")

},

address: 'coimbatore',

course: 'BE CSE',

name: 'BALA'

},

{

\_id: ObjectId("6441778ca4858f49b444ae40"),

product\_id: 112,

product\_name: 'sony expression1',

price: 10000,

no\_quantity: 2,

company: { name: 'sony', purchasedate: ISODate("2023-03-18T18:30:00.000Z") }

}

]

product>

**2.To create a collections for product\_details and update the price:32999.99 whose productid:103.**

product> show collections

product\_details

product> db.product\_details.updateOne({product\_id:103},{$set:{price:32999.99}})

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

product> db.product\_details.find().pretty()

[

{

\_id: ObjectId("6441773da4858f49b444ae3f"),

product\_id: 103,

product\_name: 'pixel',

price: 32999.99,

no\_quantity: 1,

company: {

name: 'pixelgoogle',

purchasedate: ISODate("2023-04-22T18:30:00.000Z")

},

address: 'coimbatore',

course: 'BE CSE',

name: 'BALA'

},

{

\_id: ObjectId("6441778ca4858f49b444ae40"),

product\_id: 112,

product\_name: 'sony expression1',

price: 10000,

no\_quantity: 2,

company: { name: 'sony', purchasedate: ISODate("2023-03-18T18:30:00.000Z") }

}

]

**3.To increment the price rate by 1500 for all the products .**

product> db.product\_details.updateMany({},{$inc:{price:1500}})

{

acknowledged: true,

insertedId: null,

matchedCount: 12,

modifiedCount: 12,

upsertedCount: 0

}

product> db.product\_details.find().pretty()

[

{

\_id: ObjectId("64417303a4858f49b444ae35"),

product\_id: 101,

product\_name: 'iphone\_11',

price: 68000,

no\_quantity: 2,

company: {

name: 'apple',

purchasedate: ISODate("2023-06-05T18:30:00.000Z")

}

},

{

\_id: ObjectId("6441738aa4858f49b444ae36"),

product\_id: 102,

product\_name: 'iphone\_11',

price: 71000,

no\_quantity: 3,

company: {

name: 'apple',

purchasedate: ISODate("2023-04-22T18:30:00.000Z")

}

},

{

\_id: ObjectId("644173c6a4858f49b444ae37"),

product\_id: 103,

product\_name: 'iphone\_11',

price: 74000,

no\_quantity: 4,

company: {

name: 'apple',

purchasedate: ISODate("2023-02-25T18:30:00.000Z")

}

},

{

\_id: ObjectId("644173eaa4858f49b444ae38"),

product\_id: 104,

product\_name: 'iphone\_11',

price: 83000,

no\_quantity: 5,

company: {

name: 'apple',

purchasedate: ISODate("2023-02-26T18:30:00.000Z")

}

},

{

\_id: ObjectId("6441740da4858f49b444ae39"),

product\_id: 105,

product\_name: 'iphone\_11',

price: 98000,

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

}

},

{

\_id: ObjectId("64417475a4858f49b444ae3a"),

product\_id: 106,

product\_name: 'redmi\_note\_11',

price: 23000,

no\_quantity: 2,

company: {

name: 'redmi',

purchasedate: ISODate("2023-10-31T18:30:00.000Z")

}

},

{

\_id: ObjectId("644174dba4858f49b444ae3b"),

product\_id: 107,

product\_name: 'realme\_6pro',

price: 17000,

no\_quantity: 2,

company: {

name: 'realme',

purchasedate: ISODate("2023-12-09T18:30:00.000Z")

}

},

{

\_id: ObjectId("6441763da4858f49b444ae3c"),

product\_id: 108,

product\_name: 'oneplus\_nord',

price: 28000,

no\_quantity: 3,

company: {

name: 'oneplus',

purchasedate: ISODate("2022-12-31T18:30:00.000Z")

}

},

{

\_id: ObjectId("64417691a4858f49b444ae3d"),

product\_id: 109,

product\_name: 'oppo\_f9',

price: 18000,

no\_quantity: 2,

company: { name: 'oppo', purchasedate: ISODate("2023-03-06T18:30:00.000Z") }

},

{

\_id: ObjectId("644176dea4858f49b444ae3e"),

product\_id: 110,

product\_name: 'googlephone\_g1',

price: 38000,

no\_quantity: 2,

company: {

name: 'google',

purchasedate: ISODate("2023-06-09T18:30:00.000Z")

}

},

{

\_id: ObjectId("6441773da4858f49b444ae3f"),

product\_id: 111,

product\_name: 'pixel',

price: 35999.99,

no\_quantity: 1,

company: {

name: 'pixelgoogle',

purchasedate: ISODate("2023-04-22T18:30:00.000Z")

},

address: 'coimbatore',

course: 'BE CSE',

name: 'BALA'

},

{

\_id: ObjectId("6441778ca4858f49b444ae40"),

product\_id: 112,

product\_name: 'sony expression1',

price: 13000,

no\_quantity: 2,

company: { name: 'sony', purchasedate: ISODate("2023-03-18T18:30:00.000Z") }

}

]

product>

**4.To update the min price among all the products to the productid:105.**

product> db.product\_details.find({product\_id:105})

[

{

\_id: ObjectId("6441740da4858f49b444ae39"),

product\_id: 105,

product\_name: 'iphone\_11',

price: 20000,

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

},

price1: 5000,

price2: 3000

}

]

product> db.product\_details.updateOne( { product\_id:105 }, { $min: {"price":1000} } )

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

product> db.product\_details.find({product\_id:105})

[

{

\_id: ObjectId("6441740da4858f49b444ae39"),

product\_id: 105,

product\_name: 'iphone\_11',

price: 1000,

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

},

price1: 5000,

price2: 3000

}

]

product>

**5.To update the max price among all the products to the productid:107.**

product> db.product\_details.find({product\_id:107})

[

{

\_id: ObjectId("644174dba4858f49b444ae3b"),

product\_id: 107,

product\_name: 'realme\_6pro',

price: 14000,

no\_quantity: 2,

company: {

name: 'realme',

purchasedate: ISODate("2023-12-09T18:30:00.000Z")

}

}

]

product>

product> db.product\_details.updateOne( { product\_id:107 }, { $max: {"price":40000} } )

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

product> db.product\_details.find({product\_id:107})

[

{

\_id: ObjectId("644174dba4858f49b444ae3b"),

product\_id: 107,

product\_name: 'realme\_6pro',

price: 40000,

no\_quantity: 2,

company: {

name: 'realme',

purchasedate: ISODate("2023-12-09T18:30:00.000Z")

}

}

]

product>

**6. To multiply the price rate by 3 for all the productid:105.**

product> db.product\_details.updateOne( { product\_id:105 }, { $mul: {"price":3} } )

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

product> db.product\_details.find({product\_id:105})

[

{

\_id: ObjectId("6441740da4858f49b444ae39"),

product\_id: 105,

product\_name: 'iphone\_11',

price: 60000,

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

},

price1: 5000,

price2: 3000

},

{

\_id: ObjectId("6442d694fc3b5e54833a0237"),

product\_id: 105,

product\_name: 'iphone\_11',

price: 30000,

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

},

price1: 10000,

price2: 3000

},

{

\_id: ObjectId("6442d6a5fc3b5e54833a0238"),

product\_id: 105,

product\_name: 'iphone\_11',

price: 10000,

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

},

price1: 1000,

price2: 5000

}

]

product>

**7. To unset the price field from the productid:105.**

product> db.product\_details.updateMany( { product\_id:105 }, { $unset: {price:" "} } )

{

acknowledged: true,

insertedId: null,

matchedCount: 3,

modifiedCount: 2,

upsertedCount: 0

}

product> db.product\_details.find({product\_id:105})

[

{

\_id: ObjectId("6441740da4858f49b444ae39"),

product\_id: 105,

product\_name: 'iphone\_11',

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

},

price1: 5000,

price2: 3000

},

{

\_id: ObjectId("6442d694fc3b5e54833a0237"),

product\_id: 105,

product\_name: 'iphone\_11',

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

},

price1: 10000,

price2: 3000

},

{

\_id: ObjectId("6442d6a5fc3b5e54833a0238"),

product\_id: 105,

product\_name: 'iphone\_11',

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

},

price1: 1000,

price2: 5000

}

]

product>

**8.To upsert the price to the productid: 105 and fix the price as 25789.60 (insert).**

product> db.product\_details.updateMany( { product\_id:105 }, { $set: {price:25789.60} },{upsert:"true"} )

{

acknowledged: true,

insertedId: null,

matchedCount: 3,

modifiedCount: 3,

upsertedCount: 0

}

product> db.product\_details.find({product\_id:105})

[

{

\_id: ObjectId("6441740da4858f49b444ae39"),

product\_id: 105,

product\_name: 'iphone\_11',

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

},

price1: 5000,

price2: 3000,

price: 25789.6

},

{

\_id: ObjectId("6442d694fc3b5e54833a0237"),

product\_id: 105,

product\_name: 'iphone\_11',

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

},

price1: 10000,

price2: 3000,

price: 25789.6

},

{

\_id: ObjectId("6442d6a5fc3b5e54833a0238"),

product\_id: 105,

product\_name: 'iphone\_11',

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

},

price1: 1000,

price2: 5000,

price: 25789.6

}

]

product>

**9. To upsert the price to the productid:107 as 78000.23 (update).**

product> db.product\_details.update( { product\_id:107 }, { $set: {price:78000.23} },{upsert:"true"} )

DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

product> db.product\_details.find({product\_id:107})

[

{

\_id: ObjectId("644174dba4858f49b444ae3b"),

product\_id: 107,

product\_name: 'realme\_6pro',

price: 78000.23,

no\_quantity: 2,

company: {

name: 'realme',

purchasedate: ISODate("2023-12-09T18:30:00.000Z")

}

}

]

product>

**10. To rename the field productid to proid.**

product> db.product\_details.updateMany( {}, { $rename: {"product\_id":"proid"}} )

{

acknowledged: true,

insertedId: null,

matchedCount: 14,

modifiedCount: 14,

upsertedCount: 0

}

product> db.product\_details.find().pretty()

[

{

\_id: ObjectId("64417303a4858f49b444ae35"),

product\_name: 'iphone\_11',

price: 65000,

no\_quantity: 2,

company: {

name: 'apple',

purchasedate: ISODate("2023-06-05T18:30:00.000Z")

},

proid: 101

},

{

\_id: ObjectId("6441738aa4858f49b444ae36"),

product\_name: 'iphone\_11',

price: 68000,

no\_quantity: 3,

company: {

name: 'apple',

purchasedate: ISODate("2023-04-22T18:30:00.000Z")

},

proid: 102

},

{

\_id: ObjectId("644173c6a4858f49b444ae37"),

product\_name: 'iphone\_11',

price: 71000,

no\_quantity: 4,

company: {

name: 'apple',

purchasedate: ISODate("2023-02-25T18:30:00.000Z")

},

proid: 103

},

{

\_id: ObjectId("644173eaa4858f49b444ae38"),

product\_name: 'iphone\_11',

price: 80000,

no\_quantity: 5,

company: {

name: 'apple',

purchasedate: ISODate("2023-02-26T18:30:00.000Z")

},

proid: 104

},

{

\_id: ObjectId("6441740da4858f49b444ae39"),

product\_name: 'iphone\_11',

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

},

price1: 5000,

price2: 3000,

price: 25789.6,

proid: 105

},

{

\_id: ObjectId("64417475a4858f49b444ae3a"),

product\_name: 'redmi\_note\_11',

price: 20000,

no\_quantity: 2,

company: {

name: 'redmi',

purchasedate: ISODate("2023-10-31T18:30:00.000Z")

},

proid: 106

},

{

\_id: ObjectId("644174dba4858f49b444ae3b"),

product\_name: 'realme\_6pro',

price: 78000.23,

no\_quantity: 2,

company: {

name: 'realme',

purchasedate: ISODate("2023-12-09T18:30:00.000Z")

},

proid: 107

},

{

\_id: ObjectId("6441763da4858f49b444ae3c"),

product\_name: 'oneplus\_nord',

price: 25000,

no\_quantity: 3,

company: {

name: 'oneplus',

purchasedate: ISODate("2022-12-31T18:30:00.000Z")

},

proid: 108

},

{

\_id: ObjectId("64417691a4858f49b444ae3d"),

product\_name: 'oppo\_f9',

price: 15000,

no\_quantity: 2,

company: { name: 'oppo', purchasedate: ISODate("2023-03-06T18:30:00.000Z") },

proid: 109

},

{

\_id: ObjectId("644176dea4858f49b444ae3e"),

product\_name: 'googlephone\_g1',

price: 35000,

no\_quantity: 2,

company: {

name: 'google',

purchasedate: ISODate("2023-06-09T18:30:00.000Z")

},

proid: 110

},

{

\_id: ObjectId("6441773da4858f49b444ae3f"),

product\_name: 'pixel',

price: 20000,

no\_quantity: 1,

company: {

name: 'pixelgoogle',

purchasedate: ISODate("2023-04-22T18:30:00.000Z")

},

address: 'coimbatore',

course: 'BE CSE',

name: 'BALA',

proid: 111

},

{

\_id: ObjectId("6441778ca4858f49b444ae40"),

product\_name: 'sony expression1',

price: 10000,

no\_quantity: 2,

company: { name: 'sony', purchasedate: ISODate("2023-03-18T18:30:00.000Z") },

proid: 112

},

{

\_id: ObjectId("6442d694fc3b5e54833a0237"),

product\_name: 'iphone\_11',

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

},

price1: 10000,

price2: 3000,

price: 25789.6,

proid: 105

},

{

\_id: ObjectId("6442d6a5fc3b5e54833a0238"),

product\_name: 'iphone\_11',

no\_quantity: 6,

company: {

name: 'apple',

purchasedate: ISODate("2023-11-19T18:30:00.000Z")

},

price1: 1000,

price2: 5000,

price: 25789.6,

proid: 105

}

]

product>