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.**

products> db.product\_details.updateMany({product\_name:"asus"},{$set:{name:"bala",course:"BE ECE",address:"ooty"

... }},{upsert:true})

{

\_id: ObjectId("644255342d1bd584e9f44e8f"),

product\_id: 60,

product\_name: 'asus',

price: 15000,

no\_quantity: 3,

company: { name: 'asus', purchasedate: ISODate("2023-02-03T18:30:00.000Z") },

address: 'ooty',

course: 'BE ECE',

name: 'bala'

}

]

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

**Update product id:**

products> db.product\_details.find({product\_name:"asus"})

[

{

\_id: ObjectId("644255342d1bd584e9f44e8f"),

product\_id: 103,

product\_name: 'asus',

price: 15000,

no\_quantity: 3,

company: { name: 'asus', purchasedate: ISODate("2023-02-03T18:30:00.000Z") },

address: 'ooty',

course: 'BE ECE',

name: 'bala'

}

]

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

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

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

products> db.product\_details.find({product\_id:103})

[

{

\_id: ObjectId("644255342d1bd584e9f44e8f"),

product\_id: 103,

product\_name: 'asus',

price: 32999.99,

no\_quantity: 3,

company: { name: 'asus', purchasedate: ISODate("2023-02-03T18:30:00.000Z") },

address: 'ooty',

course: 'BE ECE',

name: 'bala'

}

]

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

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

{

acknowledged: true,

insertedId: null,

matchedCount: 12,

modifiedCount: 12,

upsertedCount: 0

}

Output:

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

[

{

\_id: ObjectId("644251ce2d1bd584e9f44e84"),

product\_id: 263,

product\_name: 'iphone11',

price: 1503000,

no\_quantity: 3,

company: {

name: 'apple',

purchasedate: ISODate("2001-01-11T18:30:00.000Z")

}

},

{

\_id: ObjectId("644252922d1bd584e9f44e85"),

product\_id: 263,

product\_name: 'samsung galaxy',

price: 1501500,

no\_quantity: 3,

company: {

name: 'samsung',

purchasedate: ISODate("2002-01-11T18:30:00.000Z")

}

},

{

\_id: ObjectId("644252c12d1bd584e9f44e86"),

product\_id: 263,

product\_name: 'oppo a5',

price: 1501500,

no\_quantity: 3,

company: { name: 'oppo', purchasedate: ISODate("2002-02-11T18:30:00.000Z") }

},

{

\_id: ObjectId("644252e82d1bd584e9f44e87"),

product\_id: 263,

product\_name: 'iphone11',

price: 1501500,

no\_quantity: 3,

company: {

name: 'apple',

purchasedate: ISODate("2002-02-12T18:30:00.000Z")

}

},

{

\_id: ObjectId("644253222d1bd584e9f44e88"),

product\_id: 263,

product\_name: 'iphone11',

price: 1501500,

no\_quantity: 3,

company: {

name: 'apple',

purchasedate: ISODate("2012-02-12T18:30:00.000Z")

}

},

{

\_id: ObjectId("6442535d2d1bd584e9f44e89"),

product\_id: 253,

product\_name: 'viovo v5',

price: 1581500,

no\_quantity: 3,

company: { name: 'vivo', purchasedate: ISODate("2012-02-02T18:30:00.000Z") }

},

{

\_id: ObjectId("644253932d1bd584e9f44e8a"),

product\_id: 285,

product\_name: 'iphone11',

price: 1581500,

no\_quantity: 3,

company: {

name: 'apple',

purchasedate: ISODate("2018-02-02T18:30:00.000Z")

}

},

{

\_id: ObjectId("644253d52d1bd584e9f44e8b"),

product\_id: 290,

product\_name: 'iphone11',

price: 1601500,

no\_quantity: 7,

company: {

name: 'apple',

purchasedate: ISODate("2022-02-02T18:30:00.000Z")

}

},

{

\_id: ObjectId("6442541a2d1bd584e9f44e8c"),

product\_id: 320,

product\_name: 'redmi note10',

price: 17500,

no\_quantity: 7,

company: {

name: 'redmi',

purchasedate: ISODate("2022-06-03T18:30:00.000Z")

}

},

{

\_id: ObjectId("644254752d1bd584e9f44e8d"),

product\_id: 467,

product\_name: 'realme narzo',

price: 17500,

no\_quantity: 3,

company: {

name: 'realme',

purchasedate: ISODate("2023-06-03T18:30:00.000Z")

}

},

{

\_id: ObjectId("644254ee2d1bd584e9f44e8e"),

product\_id: 554,

product\_name: 'asus rog',

price: 16500,

no\_quantity: 3,

company: { name: 'asus', purchasedate: ISODate("2023-08-03T18:30:00.000Z") }

},

{

\_id: ObjectId("644255342d1bd584e9f44e8f"),

product\_id: 103,

product\_name: 'asus',

price: 34499.99,

no\_quantity: 3,

company: { name: 'asus', purchasedate: ISODate("2023-02-03T18:30:00.000Z") },

address: 'ooty',

course: 'BE ECE',

name: 'bala'

}

]

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

products> db.product\_details.updateMany({product\_id:263},{$min:{price:50000}})

{

acknowledged: true,

insertedId: null,

matchedCount: 5,

modifiedCount: 5,

upsertedCount: 0

}

products> db.product\_details.find({product\_id:263})

[

{

\_id: ObjectId("644251ce2d1bd584e9f44e84"),

product\_id: 263,

product\_name: 'iphone11',

price: 50000,

no\_quantity: 3,

company: {

name: 'apple',

purchasedate: ISODate("2001-01-11T18:30:00.000Z")

}

},

{

\_id: ObjectId("644252922d1bd584e9f44e85"),

product\_id: 263,

product\_name: 'samsung galaxy',

price: 50000,

no\_quantity: 3,

company: {

name: 'samsung',

purchasedate: ISODate("2002-01-11T18:30:00.000Z")

}

},

{

\_id: ObjectId("644252c12d1bd584e9f44e86"),

product\_id: 263,

product\_name: 'oppo a5',

price: 50000,

no\_quantity: 3,

company: { name: 'oppo', purchasedate: ISODate("2002-02-11T18:30:00.000Z") }

},

{

\_id: ObjectId("644252e82d1bd584e9f44e87"),

product\_id: 263,

product\_name: 'iphone11',

price: 50000,

no\_quantity: 3,

company: {

name: 'apple',

purchasedate: ISODate("2002-02-12T18:30:00.000Z")

}

},

{

\_id: ObjectId("644253222d1bd584e9f44e88"),

product\_id: 263,

product\_name: 'iphone11',

price: 50000,

no\_quantity: 3,

company: {

name: 'apple',

purchasedate: ISODate("2012-02-12T18:30:00.000Z")

}

}

]

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

products> db.product\_details.update({product\_id:263},{$set:{price:25789.60}},{upsert:false})

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

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

products> db.product\_details.findOne({product\_id:263})

{

\_id: ObjectId("644251ce2d1bd584e9f44e84"),

product\_id: 263,

product\_name: 'iphone11',

price: 25789.6,

no\_quantity: 3,

company: { name: 'apple', purchasedate: ISODate("2001-01-11T18:30:00.000Z") }

}

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

products> db.product\_details.updateOne({product\_id:103},{$set:{price:78000}},{upsert:true})

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

products> db.product\_details.find({product\_id:103})

[

{

\_id: ObjectId("644255342d1bd584e9f44e8f"),

product\_id: 103,

product\_name: 'asus',

price: 78000,

no\_quantity: 3,

company: { name: 'asus', purchasedate: ISODate("2023-02-03T18:30:00.000Z") },

address: 'ooty',

course: 'BE ECE',

name: 'bala'

}

]

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

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

{

acknowledged: true,

insertedId: null,

matchedCount: 12,

modifiedCount: 12,

upsertedCount: 0

}

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

[

{

\_id: ObjectId("644251ce2d1bd584e9f44e84"),

product\_name: 'iphone11',

price: 25789.6,

no\_quantity: 3,

company: {

name: 'apple',

purchasedate: ISODate("2001-01-11T18:30:00.000Z")

},

proid: 263

},

{

\_id: ObjectId("644252922d1bd584e9f44e85"),

product\_name: 'samsung galaxy',

price: 50000,

no\_quantity: 3,

company: {

name: 'samsung',

purchasedate: ISODate("2002-01-11T18:30:00.000Z")

},

proid: 263

},

{

\_id: ObjectId("644252c12d1bd584e9f44e86"),

product\_name: 'oppo a5',

price: 50000,

no\_quantity: 3,

company: { name: 'oppo', purchasedate: ISODate("2002-02-11T18:30:00.000Z") },

proid: 263

},

{

\_id: ObjectId("644252e82d1bd584e9f44e87"),

product\_name: 'iphone11',

price: 50000,

no\_quantity: 3,

company: {

name: 'apple',

purchasedate: ISODate("2002-02-12T18:30:00.000Z")

},

proid: 263

},

{

\_id: ObjectId("644253222d1bd584e9f44e88"),

product\_name: 'iphone11',

price: 50000,

no\_quantity: 3,

company: {

name: 'apple',

purchasedate: ISODate("2012-02-12T18:30:00.000Z")

},

proid: 263

},

{

\_id: ObjectId("6442535d2d1bd584e9f44e89"),

product\_name: 'viovo v5',

price: 1581500,

no\_quantity: 3,

company: { name: 'vivo', purchasedate: ISODate("2012-02-02T18:30:00.000Z") },

proid: 253

},

{

\_id: ObjectId("644253932d1bd584e9f44e8a"),

product\_name: 'iphone11',

price: 1581500,

no\_quantity: 3,

company: {

name: 'apple',

purchasedate: ISODate("2018-02-02T18:30:00.000Z")

},

proid: 285

},

{

\_id: ObjectId("644253d52d1bd584e9f44e8b"),

product\_name: 'iphone11',

price: 1601500,

no\_quantity: 7,

company: {

name: 'apple',

purchasedate: ISODate("2022-02-02T18:30:00.000Z")

},

proid: 290

},

{

\_id: ObjectId("6442541a2d1bd584e9f44e8c"),

product\_name: 'redmi note10',

price: 17500,

no\_quantity: 7,

company: {

name: 'redmi',

purchasedate: ISODate("2022-06-03T18:30:00.000Z")

},

proid: 320

},

{

\_id: ObjectId("644254752d1bd584e9f44e8d"),

product\_name: 'realme narzo',

price: 17500,

no\_quantity: 3,

company: {

name: 'realme',

purchasedate: ISODate("2023-06-03T18:30:00.000Z")

},

proid: 467

},

{

\_id: ObjectId("644254ee2d1bd584e9f44e8e"),

product\_name: 'asus rog',

price: 16500,

no\_quantity: 3,

company: { name: 'asus', purchasedate: ISODate("2023-08-03T18:30:00.000Z") },

proid: 554

},

{

\_id: ObjectId("644255342d1bd584e9f44e8f"),

product\_name: 'asus',

price: 78000,

no\_quantity: 3,

company: { name: 'asus', purchasedate: ISODate("2023-02-03T18:30:00.000Z") },

address: 'ooty',

course: 'BE ECE',

name: 'bala',

proid: 103

}

]