# Mongodb

```
                              upsertedCount: 0
                            }
                          > db.products.updateOne({
                            _id:4

                            },{
                            $set:{
                            "spec.ram":16,
                            "spec.screen":10.7,
                            "spec.cpu":2.66
                            }
                            })
                          < {
                              acknowledged: true,
                              insertedId: null,
                              matchedCount: 1,
                              modifiedCount: 1,
                              upsertedCount: 0
                            }
                          vit>|
```

```
                          > db.products.updateOne(
                              { _id: 4 },
                              { $addToSet: { "color": "green" } }
                            )
                          < {
                              acknowledged: true,
                              insertedId: null,
                              matchedCount: 1,
                              modifiedCount: 1,
                              upsertedCount: 0
                            }
```

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```
> db.products.updateOne(
    { _id: 4 },
    {
      $set: {
        "name": "SmartPad Pro",
        "price": 749,
        "releaseDate": ISODate("2021-06-01"),
        "color": ["black", "silver", "blue"],
        "storage": [256, 512, 1024],
        "spec.ram": 16,
        "spec.screen": 10.7,
        "spec.cpu": 2.66
      }
    }
)
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
}
```

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```
}
> db.products.updateMany(
    {
      _id: { $in: [1, 2, 3] }
    },
    {
      $set: {
        storage: [16, 32]
      }
    }
)
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 3,
    modifiedCount: 3,
    upsertedCount: 0
  }
vit>
```

Increament operator:

```
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```
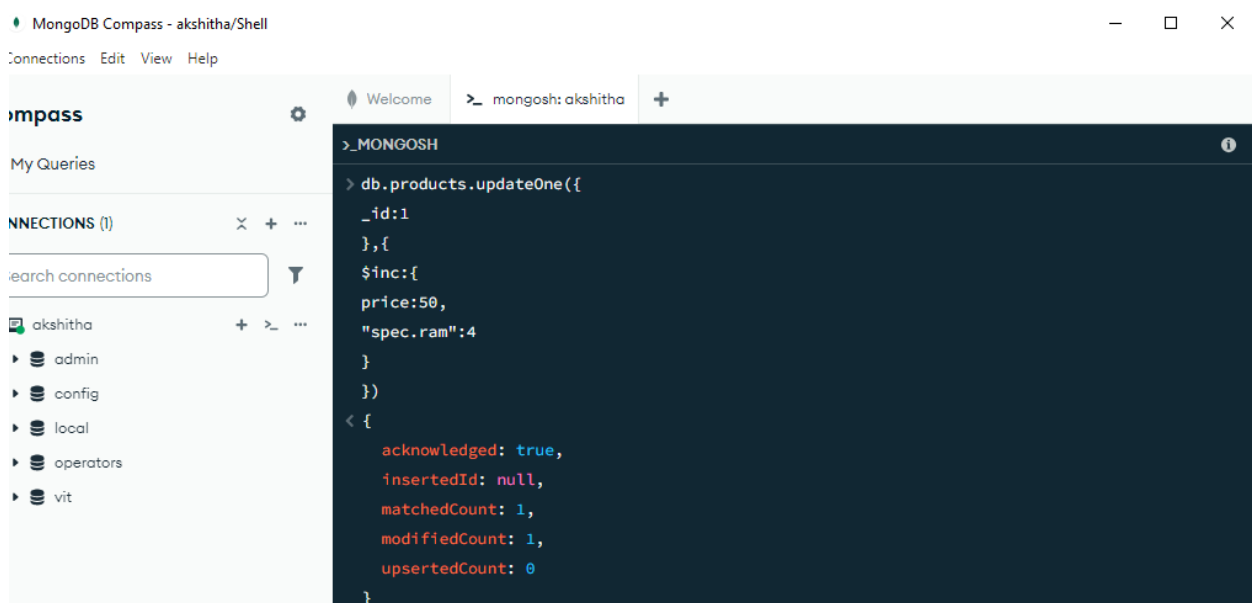
```
> db.products.updateOne({
    _id:1
  },{
  $inc:{
  price:50
  }
  })
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
vit>
```

We don't have decreament operator instead of that we use (-) operatior:

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```
> db.products.updateOne(
    { _id: 1 },
    {
      $inc: {
        price: -30,
        quantity: -5
      }
    }
  )
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
```

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```
> db.products.updateOne({
    _id:1
  },{
  $inc:{
  price:50,
  "spec.ram":4
  }
  })
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
```

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# Using increament operator update many:

```
> db.products.updateMany(
    { _id: { $in: [1, 2, 3] } },
    {
      $inc: {
        price: 100
      }
    }
  )
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 3,
    modifiedCount: 3,
    upsertedCount: 0
  }
vit>
```

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# Min operator:

```
> db.products.updateOne(
    { _id: 2 },
    {
      $min: { price: 750 }
    }
  )
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
vit>
```

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# Max:

```
> db.products.updateOne(
    { _id: 2 },
    {
      $max: { price: 950 }
    }
  )
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
}
```

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## Mul:



```
>_MONGOSH                                                          ⓘ
> db.products.updateOne(
    { _id: 1 },
    {
      $mul: {
        price: 1.2,
        "spec.cpu": 2,
        "spec.ram": 1.5
      }
    }
  )
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
vit>
```

```
      '2': 3,
      '3': 4,
      '4': 5
    }
  }
> db.products.updateMany({}, { $mul: { price: 2 } })
  db.products.updateMany({}, { $mul: { "spec.ram": 2 } })
  db.products.updateMany({}, { $mul: { "spec.cpu": 2 } })
  db.products.updateMany({}, { $mul: { "spec.screen": 2 } })
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 5,
    modifiedCount: 5,
    upsertedCount: 0
  }
vit>
```

## Unset:

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```
>_MONGOSH                                                        ⓘ
> db.products.updateOne({
  _id:1



},{
$unset:{
price:""
}


})
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
vit>
```

```
> db.products.updateMany({},{$unset:{"spec.ram":""}})
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 5,
    modifiedCount: 5,
    upsertedCount: 0
  }
vit>
```

```
    }
> db.products.updateMany({},{$unset : {"storage.0" : ""}})
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 5,
    modifiedCount: 5,
    upsertedCount: 0
  }
vit>
```

```
> db.products.updateMany({},{$unset : {"storage.0" : ""}})
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 5,
    modifiedCount: 5,
    upsertedCount: 0
  }
> db.products.updateMany({},{
  $rename:{
  nmea:"name"
  }


  })
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 5,
    modifiedCount: 5,
    upsertedCount: 0
  }
vit>

> db.products.updateOne({
  _id:1

  },{
  $rename:{
  "spec.cpu":"cpu"


  }


  })
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
```

We can do rename for existing fields also:

```
> db.products.updateOne({
  _id:2

},{
$rename:{
"color":"storage"

}

})
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
}
vit>
```

Upsert:

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```
> db.products.updateMany(
    {_id:6},
    {$set:{price:999}}
  )
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 0
  }
vit>
```

```
> db.products.updateMany(
    {_id:6},
    {$set:{price:999}},
    {upsert:true}
  )
< {
    acknowledged: true,
    insertedId: 6,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 1
  }
vit>
```