

Create Sample Documents

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```
db.shoppingCart.insertMany([{"index": NumberInt(1)},  
 {"index": NumberInt(2)}, ... 5])
```

show collections

↳ shoppingCart

```
db.getCollection('shoppingCart').find({})
```



db.collection.method(query, update, options)

\$set

```
db.shoppingCart.update(  
  { index: 3 },  
  {  
    $set: {  
      cartId: NumberInt(325),  
      customer: {  
        name: "Mike Foster",  
        email: "mfoster@test.com",  
        age: NumberInt(22)  
      }  
    }  
    cart: [ ]  
  }  
) ;
```

```
db.getCollection('shoppingCart').find({ index: 2 })
```

\$unset

```
db.getCollection('shoppingCart')
  .update(
    {index: 1},
    { $set: {
      cartId: NumberInt(325),
      customer: {
        name: "Mike Foster",
        email: "mfoster@fca.com",
        age: NumberInt(22)
      },
      cart: []
    }
  }
);

```

```
db.getCollection('shoppingCart')
  .update(
    {index: 1},
    { $unset: {
      cartId: 1,
      cart: ""
    }
  }
)
```

```
db.getCollection('shoppingCart').find({index: 1})
```



```
db.getCollection('shoppingCart')
  .update(
    {index: 1},
    { $unset: {}}
```

```

    "customer.name": 1, => sadee
    "customer.age": 1           email adresi
});                                taker.
);                                     ↴
                                         customer.email.

```

```

db.getCollection('shoppingCart')
  .update(
    {index: 1},           => customer adının sadece
    {$unset: {             sadee index taker.
      customer: 1
    }}                   )

```

```

db.getCollection('shoppingCart') } index:1: gunceller.
  .update(               index:2: guncellemez.
    {},                  NOT : update metodu
    {$unset: {            bulduğu ilk dokumanı
      customer: 1          günceller. Diğerini:
    }}                   güncellemez.
    {}
)

```

```

db.shoppingCart.update({index: 1, $unset: {customer: 1, processed: false}})
  ↳ processed : false olanın elaci, güncellendi, olsa.
{ _id: ...,
  "index": 1,           db.getCollection("shoppingCart").find({})
  "processed": false
}

```

```

db.shoppingCart.update({index: 10}, {$unset: {customer: 1, processed: false}})

```

update() with {multi:true}

```
db.collection.update({query, update, {multi:true}})  
writeResult: {  
    "nMatched": 35,  
    "nUpserted": 0,  
    "nModified": 35  
}
```

```
db.shoppingCart.update({}, {$set: {processed: false}}, {multi: true})  
↳ writeResult: {"nMatched": 5, "nUpserted": 0, "nModified": 4}
```

updateOne()

```
db.getCollection('shoppingCart')  
    .updateOne(  
        {cartId: 3253},  
        {$set: {  
            processed: true  
        }}  
    )
```

⇒ count: true

matched: 1

modified: 1

1

2 deha collection'a

modified: 0 olacak.

```
db.getCollection('shoppingCart')  
    .find({cartId: 3253})
```

* consistency sign teker processed: false japtik.
(Tutor(1.1.18))

```
db.collection("shoppingCart")  
    .updateOne(  
        {cartId: 3253},  
        {$set: {processed: false}},  
    )
```

updateMany()

```
db.collection.updateMany(query, update, option)
```

↳ Update cart (array)(baslangic eleme).

```

db.getCollection('shoppingCart')
  .updateMany(
    {cart: {$exists: false}},
    { $set: {
      cart: []
    }}
  )

```

⇒
acknowledged: true
modifiedCount: 4

replaceOne()

```
db.collection.replaceOne(query, replacement, options)
```

```

db.shoppingCart.replaceOne(
  {index: 1},
  {
    index: 1,
    processed: false,
    cart: []
  }
)

```

} Note: - id değismez.

```
db.getCollection("shoppingCart")
```

```

  .replaceOne(
    {"index": 1},
    {
      "index": 1,
      "processed": true,
      "cart": ["item1", "item2"]
    },
    {}
  )

```

```
db.getCollection("shoppingCart")
```

```
  .find({index: 1})
```

⇒ { "_id": ObjectId("..."),
"index": 1, 0,

```

    "processed": true,
    "cart": [
        "item1",
        "item2"
    ]
}

```

```
db.getCollection('shoppingCart')
```

```

.replaceOne(
    { "index": 1 },
    {
        "index": NumberInt(1), index
        "processed": true,
        "cart": ["item1", "item2"]
    }
)

```

(tensegr.)

Combine Multiple Update Operators

```

db.shoppingCart.update(
    { index: 4 },
    {
        $set: {
            cartId: NumberInt(435),
            "customer.name": "Sonesta Lansen",
            "customer.email": "s.lansen@test.com"
        },
        $unset: {
            neworder: 1
        }
    }
)

```

```
db.getCollection('shoppingCart')
```

```

.replaceOne(
    { index: 4 },
    {
        $set: {

```

```

        newOrder : true
      },
    },
  )
}

db.getCollection('shoppingCart')
  .updateOne(
    {index: 4},
    {
      $set: {
        cartId: NumberInt(435),
        "customer.name": "Sonata Larser",
        "customer.email": "slarser@tatt.com"
      },
      $unset: {
        neworder: 1
      }
    }
  )

```

\$rename

```

db.shoppingCart.update(
  {cartId: { $exists: true } },
  {
    $rename: {
      cartId: "orderId",
      anotherField: "anotherName"
    }
  },
  { multi: true }
);

```

update(

;

= updateMany()

{multi: true}

)

```
{  
    $multi:true  
}
```

```
db.getCollection('shoppingCart')  
    .updateMany(  
        {  
            orderId: {$exists:true}  
        },  
        {  
            $rename:{  
                orderId:"cartId"  
            }  
        }  
    )
```

```
$ currentDate
```

```
db.getCollection('shoppingCart')  
    .updateOne(  
        {  
            index:13  
        },  
        {  
            $set:{  
                updatedAt:new Date()  
            }  
        }  
    )
```

```
db.getCollection('shoppingCart').find({index:13})
```

```
↳ "updatedAt": ISODate("2018-04---")
```

```
db.getCollection('shoppingCart')  
    .updateMany(  
        {  
            updatedAt:{$exists:false}  
        },  
        {  
            $currentDate:{  
                updatedAt:true  
            }  
        }  
    )
```

```

db.getCollection('shoppingCart')
  .updateMany(
    { cartId: "J25" },
    {
      $set: {
        cart: ["item1"]
      },
      $currentDate: {
        updatedAt: true
      }
    },
    { j }
  )

```

Array Update Operators

\$ **\$push** **\$pull** **\$pullAll** **\$pop** **\$addToSet**

\$ push Operator

{ \$push: { <anyfieldName>: <element> } }

```

db.shoppingCart.update(
  { cartId: "561" },
  {
    $push: {
      cart: "item1"
    }
  }
)

```

```

db.shoppingCart.update(
  { cartId: "561" },
  {
    $push: {
      cart: "item1"
    }
  }
)

```

```

db.shoppingCart.update(
  { cartId: "561" },
  {
    $push: {
      cart: { $each: ["item2", "item3"] }
    }
  }
)

```

Not: Öğe bir alan amaçla dahi, bir elementin bir dizi
otomatik olarak oluşturulur.

```
db.getCollection('shoppingCart')
  .updateOne(
    {index: 1},
    {
      $set: {
        cartId: NumberInt(561)
      },
      $unset: {
        cart: 1
      }
    }
  )
```

```
db.getCollection('shoppingCart')
  .updateOne(
    {cartId: 561},
    {
      $push: {
        cart: "item1"
      }
    }
  )
```

```
db.getCollection('shoppingCart')
  .updateOne(
    {cartId: 561},
    {
      $push: "item2"
    }
  )
```

```
db.getCollection('shoppingCart')
  .updateOne(
    {cartId: 561},
    {
      $push: {
        cart: {$each: ["item3", "item4", "item5"]}
      }
    }
  )
```

item1
item2
item3
item4
item5

```

    cart: { $each: ["item3", "item4", "item5"] } items
  }
}

db.shoppingCart.update(
  { cartId: 561 },
  {
    $push: {
      cart: "item2"
    }
  }
)

```

item1
 item2
 item3
 item4
 item5
item2

\$addToSet → element jossa elder, varsa elelens.
 Elelenden öree var mi yok mu konsol ediyor.

```

db.shoppingCart.update(
  { cartId: 561 },
  {
    $addToSet: {
      cart: "item1"
    }
  }
)

```

```

db.shoppingCart.update(
  { cartId: 561 },
  {
    $addToSet: {
      cart: { $each: ["item1", "item2"] }
    }
  }
)

```

* Array alai jossa, bir elementi bir dizisi dursunur.

```

db.shoppingCart.updateOne(
  { cartId: 561 },
  {
    $addToSet: {
      cart: "item1" ⇒ Dizide zaten "item1" olduğunu  

        oluyorsa,  

        eklemey.
    }
  }
)

```

db.shoppingCart.updateOne(
{\$set: {
cart: 1
}})

db.shoppingCart.updateOne(

{cartId: 561},

{
\$unset: {
cart: 1
}}

)

cart alanını sildik

db.shoppingCart.updateOne(

{cartId: 561},

{
\$addToSet: {

cart: "item1"

},
{
}}

)

db.shoppingCart.updateOne(

{cartId: 561},

{
\$addToSet: {

cart: { \$each: ["item2", "item3"] }

},
{
}}

}

\$pop

{ \$pop: { cart: -1 } } { \$pop: { cart: 1 } }
basta siler sondan siler
sondan siler

-1 → basta
1 → sondan

db.shoppingCart.updateOne(

{cartId: 561},

{
\$pop: { cart: 1 } }

db.shoppingCart.updateOne(

{cartId: 561},

{
\$pop: { cart: 1 } }

```
- $push: {  
  cartId: 561},  
  {  
    $pop: {cart: -1}  
  },  
  {}  
)  
) db.shoppingCart.updateOne(  
  {cartId: 561},  
  {  
    $pop: {cart: -1}  
  },  
  {}  
)
```

```
db.shoppingCart.updateOne(  
  {cartId: 561},  
  {  
    $pull: {  
      cart: "Item1"  
    }  
  },  
  {}  
)
```

{ \$pull: {<arrayFieldName>: <element | condition> } }

```
db.shoppingCart.update(  
  {cartId: 561},  
  {  
    $pull: {  
      cart: "Item1",  
      spentAmounts: { $gt: 400}  
    }  
  },  
  {}  
)
```

```
db.shoppingCart.updateOne(  
  {cartId: 561},  
  {  
    $pull: {  
      cart: "item1",  
      spentAmounts: { $gt: 400}  
    }  
  },  
  {}  
)
```

```
db.shoppingCart.updateOne(  
  {cartId: 561},  
  {  
    $addToSet: {  
      spentAmounts: {$each: [NumberInt(400),  
        NumberInt(700), NumberInt(800),  
        NumberInt(900)]}  
    }  
  })
```

```

        NumberInt(200), NumberInt(500)] }

    }

db.shoppingCart.updateOne(
  {cartId: 561},
  {
    $addToSet: {
      spentAmount: {
        $each: [
          NumberInt(400), NumberInt(700), NumberInt(800),
          NumberInt(200), NumberInt(500)]
      }
    }
  }
)

```

```

db.shoppingCart.updateOne(
  {cartId: 561},
  {
    $pull: {
      spentAmount: {$gt: 500}
    }
  }
)

```

```

db.shoppingCart.updateOne(
  {cartId: 561},
  {
    $pull: {
      spentAmount: {$gt: 500}
    }
  }
)

```

```

db.shoppingCart.updateOne(
  {cartId: 561},
  {
    $pull: {
      spentAmount: 200
    }
  }
)

```

\$ pullAll

```

db.shoppingCart.update(
  {cartId: 561},
  {
    ...
  }
)

```



```

db.shoppingCart.update(
  {cartId: 561},
  {
    ...
  }
)

```

```

{cartId: 561},
{
  $pullAll: {
    cart: ["item1", "item2"]
  }
}

```

↔

```

{cartId: 561},
{
  $pull: {
    cart: { $in: ["item1", "item2"] }
  }
}

```

```

db.shoppingCart.updateOne(
  {cartId: 561},
  {
    $pullAll: {
      spentAmounts: [400, 500]
    }
  }
)

```

```

db.shoppingCart.updateOne(
  {cartId: 561},
  {
    $push: {
      cart: { $each: ["item1", "item2", "item3", "item4", "item5"] }
    }
  }
)

```

```

db.shoppingCart.updateOne(
  {cartId: 561},
  {
    $pullAll: {
      cart: ["item1", "item2"]
    }
  }
)

```

item1
 item2
 item3
 item4
 item5
 item3
 item3

⇒ item3

Positional Operator \$

```

{$set: {<arrayField.$>: <value>}}
{$set: {<arrayField.>.$ofield: <value>}}

```

```

db.shoppingCart.updateOne(
  {cartId: 325, cart: "item2"},
  {
    $set: {
      cart: "item3"
    }
  }
)

```

```

{ cartId: 325, cart: "itm2" },
{
  $set: {
    "cart.$": "updatedItem2"
  }
}

```

```

db.shoppingCart.updateOne(
  { cartId: 561, cart: "itm3" },
  {
    $unset: {
      "cart.$": 1
    }
  }
)

```

Diagram illustrating the update operation:

- The document being updated has a `cart` field containing "itm3".
- The update query uses the positional operator `\$` to target the first element in the `cart` array.
- The update command removes the element at index 0, resulting in a new array: [item1, updatedItem2].
- Items item3 and item4 are shown as null.

```
db.shoppingCart.updateOne(
```

```

  { cartId: 561 },
  {
    $pull: {
      cart: null
    }
  }
)
```

Diagram illustrating the update operation:

- The document being updated has a `cart` field containing null.
- The update query uses the positional operator `\$` to target the first element in the `cart` array.
- The update command removes the element at index 0, resulting in a new array: [item1, updatedItem2].
- Items item3 and item4 are shown as null.

Positional Operator \$ in Nested Docs

```

{ cart: [
  {
    title: "TV",
    price: NumberInt(340),
    quantity: NumberInt(2)
  },
  {
    title: "Phone",
    price: NumberInt(180),
    quantity: NumberInt(1)
  }
]
}

```

```

db.shoppingCart.updateOne(
  {
    "cart.title": "Phone"
  },
  {
    $set: {
      "cart.$.quantity": NumberInt(1)
    }
  }
)

```

```
db.shoppingCart.updateOne(
```

```

  { "cartId": 456 },
  {
    ...
  }
)
```

```
{ "cartId": 456 },
{
  $push: {
    cart: { $each: [ { "title": "TV" }, { "title": "Phone" } ] }
  }
}
```

```
db.shoppingCart.updateOne(
{ "cartId": 456, "cart.title": "TV" },
{
  $set: {
    "cart.$-price": NumberInt(340),
    "cart.$-quantity": NumberInt(2)
  }
})
```

```
db.shoppingCart.updateOne(
{ "cartId": 456, "cart.title": "Phone" },
{
  $set: {
    "cart.$-price": NumberInt(150),
    "cart.$-quantity": NumberInt(1)
  }
})
```

```
db.shoppingCart.updateOne(
{
  cart: { $elemMatch: { title: "Phone", price: 150 } }
},
{
  $set: {
    "cart.$-quantity": NumberInt(2)
  }
})
```

```
db.shoppingCart.updateOne(
{
  cart: { $elemMatch: { title: "Phone", price: 150 } }
},
{
  $set: {
    "cart.$-quantity": NumberInt(2)
  }
})
```

```
{ $set: {  
    "cart.$.quantity": NumberInt(2)  
}  
}  
  
db.shoppingCart.updateOne(  
{ "cartId": 456,  
  cart: {  
    $elemMatch: {  
      title: "Phone",  
      price: 150  
    }  
  },  
  {  
    $set: {  
      "cart.$.quantity": NumberInt(2)  
    }  
  }  
})
```

```
db.shoppingCart.updateOne(  
{ "cartId": 456,  
  cart: {  
    $elemMatch: {  
      title: "Phone",  
      price: 150  
    }  
  },  
  {  
    $set: {  
      "cart.$.quantity": NumberInt(2)  
    }  
  }  
})
```

\$inc

```
db.shoppingCart.update({
```

```
db.shoppingCart.update(  
  { cartId: 325 },  
  {  
    $inc: {  
      totalCartItems: NumberInt(1)  
    }  
}
```

```
db.shoppingCart.update(  
  { cartId: 325 },  
  {  
    $inc: {  
      totalCartItems: NumberInt(1)  
    }  
}
```

```
db.shoppingCart.updateOne(  
  { "cartId": 456 },  
  {  
    cart: {  
      $elemMatch: {  
        title: "Phone",  
        price: 150  
      }  
    },  
    $inc: {  
      "cart.$[0].quantity": NumberInt(5)  
    }  
  }
```