## **Handling Deletion**

using Mongoose Middleware

## We can use 2 middlewares:

- Pre run before the query is executed
- · Post run after the query is executed

```
customerSchema.post("findOneAndDelete", async (customer) => {
  if (customer.orders.length) {
    let res = await Order.deleteMany({ _id: { $in: customer.orders } });
    console.log(res);
  }
});
```

One shapmany 38! wers posts query middleware.

Document middleware is supported for the following document functions. In Mongoose, a document is an instance of a Model class. In document middleware functions, this refers to the document. To access the model, use this.constructor.

- validate
- save
- remove
- updateOne
- deleteOne
- · init (note: init hooks are synchronous)

Query middleware is supported for the following Query functions. Query middleware executes when you call exec() or then() on a Query object, or await on a Query object. In query middleware functions, this refers to the query.

- count
- countDocuments
- deleteMany
- deleteOne
- estimatedDocumentCount
- find
- findOne
- findOneAndDelete
- findOneAndRemove
- findOneAndReplace
- findOneAndUpdate
- remove
- replaceOne
- update
- updateOne
- updateMany
- validate

```
// function
const addCust = async()=>{
   let newCust = new Customer({
        name:"Karan Arjun"
   })
```

```
test> show databases
admin
               40.00 KiB
config
               84.00 KiB
               96.00 KiB
local
relationDemo 224.00 KiB
wanderlust
               80.00 KiB
test> use relationDemo
switched to db relationDemo
relationDemo> show collections
customers
orders
posts
users
relationDemo> db.customers.find()
E
  {
    _id: ObjectId('67135abb433f016a17d984a3'),
    name: 'Rahul Kumar',
    orders: [
      ObjectId('6713570f0a82561d86315e64'),
      ObjectId('6713570f0a82561d86315e65')
    ],
    __v:
         0
  }
```

```
[relationDemo> db.orders.find()
E
  {
    _id: ObjectId('6713570f0a82561d86315e63'),
    item: 'samosa',
    price: 12,
     __v: 0
  },
  {
    _id: ObjectId('6713570f0a82561d86315e64'),
    item: 'Chips',
    price: 10,
     __v: 0
  },
{
    _id: ObjectId('6713570f0a82561d86315e65'),
    item: 'Pizza',
    price: 40,
     __v: 0
```

```
const addCust = async()=>{
    let newCust = new Customer({
        name: "Karan Arjun"
    })
    let newOrder = new Order({
        item: "Chocolate",
        price: 250,
    })
    newCust.orders.push(newOrder);
    await newOrder.save();
    await newCust.save();
} 💎
addCust();
```

```
relationDemo> db.orders.find()
  {
    _id: ObjectId('6713570f0a82561d86315e63'),
    item: 'samosa',
    price: 12,
    __v: 0
  },
  {
    _id: ObjectId('6713570f0a82561d86315e64'),
    item: 'Chips',
    price: 10,
    __v: 0
  },
    _id: ObjectId('6713570f0a82561d86315e65'),
    item: 'Pizza',
    price: 40,
    __v: 0
  },
    _id: ObjectId('67137416808247971b412e20'),
    item: 'Chocolate',
    price: 250,
    __v: 0
relationDemo> db.customers.find()
  {
    _id: ObjectId('67135abb433f016a17d984a3'),
    name: 'Rahul Kumar',
    orders: [
      ObjectId('6713570f0a82561d86315e64'),
      ObjectId('6713570f0a82561d86315e65')
    ],
    __v: 0
  },
    _id: ObjectId('671373efcf67ad944be8613d'),
    name: 'Karan Arjun',
    orders: [ ObjectId('671373f0cf67ad944be8613e') ],
    __v: 0
  },
    _id: ObjectId('67137416808247971b412e1f'),
    name: 'Karan Arjun',
    orders: [ ObjectId('67137416808247971b412e20') ],
   __v: 0
relationDemo>
```

```
const delcust = async()=>{
    let data = await Customer.findByIdAndDelete("67137416808247971b412e1f")
    console.log(data);
}
delcust();
```

```
ashugoyal@Ashus-MacBook-Air models % node customer.js
Connection Successful
{
    _id: new ObjectId('67137416808247971b412e1f'),
    name: 'Karan Arjun',
    orders: [ new ObjectId('67137416808247971b412e20') ],
    __v: 0
}
```

```
[relationDemo> db.customers.find()
{
    _id: ObjectId('67135abb433f016a17d984a3'),
    name: 'Rahul Kumar',
    orders: [
      ObjectId('6713570f0a82561d86315e64'),
      ObjectId('6713570f0a82561d86315e65')
    ],
      v: 0
  },
  {
    _id: ObjectId('671373efcf67ad944be8613d'),
    name: 'Karan Arjun',
    orders: [ ObjectId('671373f0cf67ad944be8613e') ],
    __v: 0
```

find By Id And Delete

APNA
COLLEGE

find One And Delete

mongoine

find One And Delete

```
Schema.pre("findOneAndDelete", async () => {
   console.log("PRE MIDDLEWARE");
});

Schema.post("findOneAndDelete", async () => {
   console.log("POST MIDDLEWARE");
});
```

```
ashugoyal@Ashus-MacBook-Air models % node customer.js
PRE MiDDLEWARE
Connection Successful
POST MiDDLEWARE
{
    _id: new ObjectId('6713778fd5735164fcbe6e14'),
    name: 'Karan Arjun',
    orders: [ new ObjectId('6713778fd5735164fcbe6e15') ],
    __v: 0
}
```

```
customerSchema.post("findOneAndDelete",async(customer)=>{
    if(customer.orders.length){
    let result = await Order.deleteMany({_id: {$in: customer.orders}})
    console.log(result);
    }
})
const Customer = mongoose.model("Customer",customerSchema)
```

```
const delcust = async()=>{
    let data = await Customer.findByIdAndDelete("67135abb433f016a17d984a3")
    console.log(data);
}
delcust();
```

```
ashugoyal@Ashus-MacBook-Air models % node customer.js
Connection Successful
{ acknowledged: true, deletedCount: 2 }
{
   _id: new ObjectId('67135abb433f016a17d984a3'),
   name: 'Rahul Kumar',
   orders: [
    new ObjectId('6713570f0a82561d86315e64'),
    new ObjectId('6713570f0a82561d86315e65')
   ],
   __v: 0
}
```

```
[relationDemo> db.customers.find()
[relationDemo> db.orders.find()
{
    _id: ObjectId('6713570f0a82561d86315e63'),
    item: 'samosa',
    price: 12,
    __v: 0
  },
  {
    _id: ObjectId('67137416808247971b412e20'),
    item: 'Chocolate',
    price: 250,
     _v: 0
  },
{
    _id: ObjectId('6713778fd5735164fcbe6e15'),
    item: 'Burger',
    price: 165,
    __v: 0
relationDemo>
```